

PROPOSED DUAL OCCUPANCY AT No. 105 LETITIA STREET, OATLEY

NOTES

ABBREVIATIONS

B.....BOTTOM	CTS.....CENTRES
E.F.....EACH FACE	EQ.....EQUAL DISTANCE
F.F.L.....FINISH FLOOR LEVEL	G.F.....GROUND FLOOR
MAX.....MAXIMUM	MIN.....MINIMUM
N.T.S.....NOT TO SCALE	REO.....REINFORCEMENT
R.W.....RETAINING WALL	SQ.....SQUARE
T.....TOP	TYP.....TYPICAL
U.N.O.....UNLESS NOTED OTHERWISE	

GENERAL

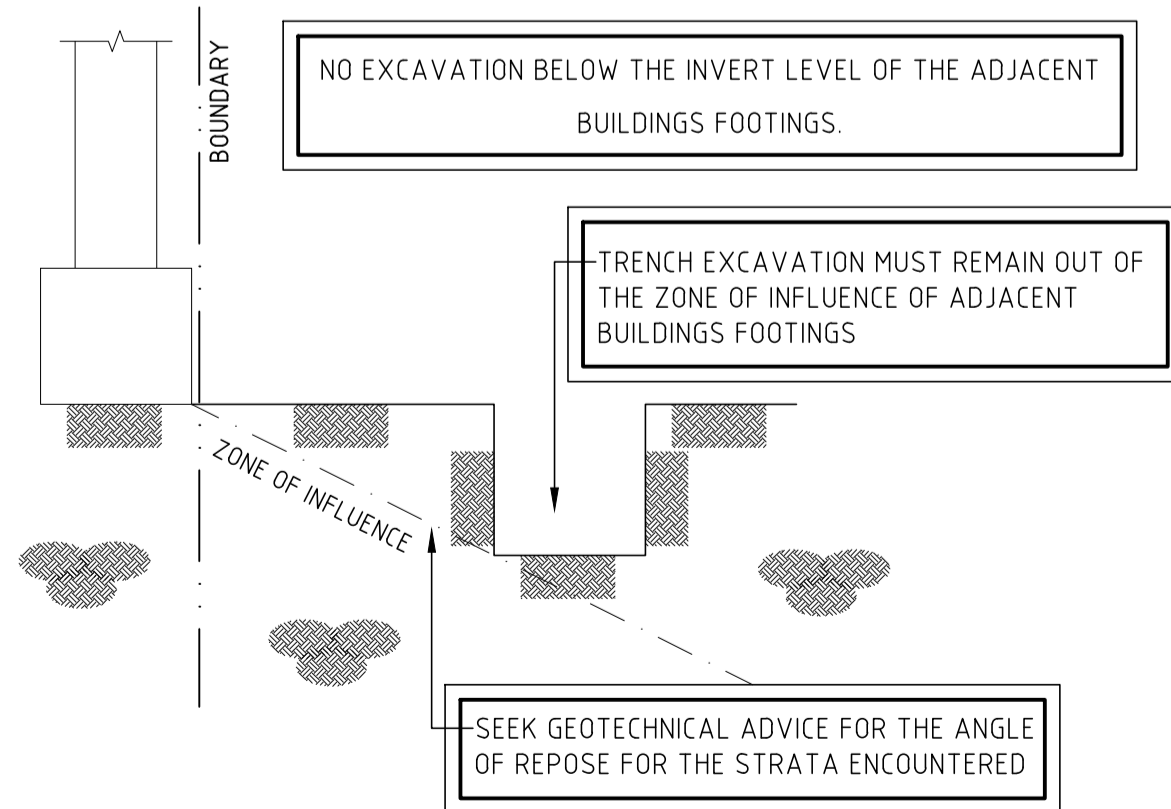
- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO ARCHITECT FOR DECISION BEFORE PROCEEDING WITH WORK.
- G2 IF ANY DISCREPANCY OCCURS ON ENGINEER'S DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATION, THE CONTRACTOR SHALL, DURING TENDERING, ASSUME THE LARGER/GREATER.
- G3 ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR. ENGINEER'S DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED (UNO).
- G4 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT S.A.A. CODES AND THE BY LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY, EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS.
- G5 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G6 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE AND WIND LOADS:

FLOORS, GENERALLY15.....kPa
ROOF0.25.....kPa
BALCONY3.0.....kPa
OTHERkPa

WIND TERRAIN CATEGORY:TC3....., BASIC WIND SPEED:26(S), 34(U).....m/s

FOUNDATIONS

- F1 FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING SAFE BEARING PRESSURESkPa -- (CLASSIFICATION '--').
- F2 FOUNDATION MATERIAL SHALL BE INSPECTED AND APPROVED FOR THE ABOVE SAFE BEARING PRESSURE BEFORE PLACING CONCRETE.
- F3 PENETRATIONS OF EDGE BEAMS OF A RAFT AND PERIMETER STRIP FOOTINGS SHALL BE AVOIDED WHERE PRACTICABLE, BUT WHERE NECESSARY SHALL BE DETAILED TO ALLOW FOR MOVEMENT IN ACCORDANCE WITH CLAUSE 5.6.4 - AS2870-2011.



TYPICAL EXCAVATION ADJACENT TO BOUNDARY DETAIL

BRICKWORK

B1 THE DESIGN STRENGTH OF BRICKWORK SHALL BE:

ELEMENT	MORTAR COMPRESSIVE STRENGTH	SAND	CEMENT:LIME: SAND	F'c (MPa)
WALLS	20		1:1:6	2.7
OTHER				

B2 WHERE BRICKWORK SUPPORTS CONCRETE SLABS, THE TOP COURSE SHALL BE LAID FROG DOWN AND COVERED WITH 2 LAYER OF LCOR OR EQUAL, UNLESS OTHERWISE NOTED.

B3 WHERE WALLS ARE NOT LOAD BEARING, THEY SHALL BE SEPARATED FROM THE CONCRETE ABOVE BY 20mm OF COOLITE, OR EQUAL.

B4 ALL BRICKWORK BUILT OFF SLABS BEAR ON 1 LAYER ALCOR, OR EQUAL.

B5 ALL STEEL LINTELS TO BE HOT-DIPPED GALVANIZED WITH 150mm MINIMUM, BEARING AT EACH END, UNLESS OTHERWISE NOTED.

CONCRETE

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE S.A.A CONCRETE STRUCTURAL CODES CURRENT EDITION AND AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:

ELEMENT	STANDARD TO CURRENT S.A.A. CODE			f'c (MPa)
	MAX. SLUMP	MAX. SIZE OF AGGREGATE	CEMENT	
FOOTINGS	80	20	G.P.	N32
SLABS	80	20	G.P.	N40
G.F. STAIRS	80	20	G.P.	N40
COLUMNS	AS NOTED ON COLUMN SCHEDULE			

C3 CONCRETE SIZES DO NOT INCLUDE THICKNESS OF APPLIED FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEER'S APPROVAL.

C4 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDED THE SLAB THICKNESS. SLABS AND BEAMS ARE TO BE POURED TOGETHER.

C5 CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS, U.N.O.:

ELEMENT	CAST AGAINST FORMS COMPLYING WITH THE CURRENT CODE		CAST AGAINST GROUND
	SHELTERED	EXPOSED	
FOOTINGS (STRIP FOOTINGS)	-	65 (50)	75 (65)
COLUMNS AND PEDESTALS	40	50	75
BEAMS	25	45	65
SLABS, WALLS	20	45	65

CONCRETE COVER SHALL BE MAINTAINED BY THE USE OF APPROVED CHAIRS AND/OR CONCRETE BLOCKS SPACED AT APPROXIMATELY 750mm CENTRES. CONDUITS AND PIPES SHALL NOT BE PLACED WITHIN THE COVER CONCRETE. ONLY PLASTIC BAR CHAIRS SHALL BE USED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.

C6 ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.

C7 CONSTRUCTION JOINTS NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER. CONSTRUCTION JOINTS SHALL BE SCABBLED OVER THE WHOLE FACE, AND ANY UNSOUND MATERIAL REMOVED. WATER-STOPS ARE TO BE PROVIDED IN ALL CONSTRUCTION JOINTS OF WALLS AND SLABS EXPOSED TO WEATHER.

C8 FORMWORK TO SUSPENDED SLABS AND BEAMS SHALL REMAIN IN PLACE FOR A FULL 21 DAYS, CANTILEVERS BEING BACKPROPPED FOR A FULL 28 DAYS. IF THERE IS LESS 21 DAYS BETWEEN PLACING OF CONCRETE FOR SUCCESSIVE SLABS PROPS SHALL BE PLACED DIRECTLY OVER PROPS UNDER.

C9 NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL.

C10 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY: IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

C11 WELDING OF REINFORCEMENT BARS WILL NOT BE PERMITTED, U.N.O.

C12 REINFORCEMENT NOTATIONS:

- S.....STRUCTURAL-GRADE DEFORMED BAR
- C.....COLD-WORKED DEFORMED BAR
- NY.....HOT ROLLED DEFORMED BAR
- R.....STRUCTURAL GRADE ROUND BAR
- F.....HARD-DRAWN WIRE REINFORCING FABRIC

THE NUMBER IMMEDIATELY FOLLOWING THE BAR GRADE SYMBOL REPRESENTS THE NOMINAL BAR DIAMETER IN MILLIMETERS. THE FIGURE FOLLOWING THE FABRIC SYMBOL IS THE REFERENCE NUMBER.

C13 UNLESS OTHERWISE SHOWN, PROVIDE N12.450 TYPING STEEL WHERE REQUIRED, LAPED 450 AT SPLICES. 2N12 DIAGONAL CORNER BARS 1000 LONG AT ALL RE-ENTRANT CORNERS OF OPENINGS IN SLABS AND WALLS.

C14 REINFORCEMENT SPLICES, U.N.O., SHALL BE TO THE APPROVAL OF THE ENGINEER.

C15 MINIMUM LENGTH OF TENSION LAP SPLICES FOR REINFORCEMENT SHALL BE AS FOLLOWS:
N16 BAR.....650mm
N12 BAR.....500mm
FABRIC.....1 MESH PLUS 25mm

SITE INSPECTIONS

DURING THE PERIOD OF CONSTRUCTION, THE FOLLOWING SITE INSPECTIONS ARE REQUIRED:

SS1 FOUNDATIONS

1. GEOTECHNICAL INSPECTION TO VERIFY FOUNDATION MATERIALS ACHIEVE THE SAFE BEARING CAPACITY.
2. GEOTECHNICAL INSPECTION TO VERIFY STABILITY OF EXCAVATIONS.

SS3 RETAINING WALLS

STRUCTURAL INSPECTION OF ALL REINFORCEMENT IS REQUIRED TO BOTH CONCRETE AND BLOCK RETAINING WALLS. SUB-CONTRACTOR SUPPLIES CONCRETE TEST RESULTS AND COMPLIANCE CERTIFICATE FOR BLOCKWORK.

SS4 REINFORCEMENT

STRUCTURAL INSPECTION OF ALL REINFORCEMENT OF BEAMS, COLUMNS, SLABS AND STAIRS.

TIMBER FRAMING

T1. ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH AS1684.2-2010 RESIDENTIAL TIMBER-FRAMED CONSTRUCTION

T2. ALL TIMBER JOISTS (RAFTER, FLOOR AND CEILING) NOT BEARING DIRECTLY ON THE SUPPORTING STRUCTURE SHALL BE SUPPORTED BY MULTI PLATE METAL HANGERS TO ENGINEERS APPROVAL.

STRUCTURAL STEEL

S1 TWO COPIES OF SHOP DETAIL DRAWINGS ARE TO BE SUBMITTED TO ENGINEERS AND APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION. APPROVAL WILL NOT COVER DIMENSIONS OF LAYOUT.

S2 STEEL SHALL BE GRADE 200 FOR CHS SECTIONS AND GRADE 250 FOR RHS AND ROLLED SECTIONS, UNLESS OTHERWISE NOTED.

S3 UNLESS NOTED OTHERWISE, WELDS SHALL BE 6mm CONTINUOUS FILLET LAID DOWN WITH APPROVED COVERED ELECTRODE. BOLTS SHALL BE M20-4.6/S, MINIMUM 2 BOLTS PER CONNECTION. CLEATS AND GUSSETS 10mm THICK.

S4 BOLTS ARE DESIGNATED ON THESE DRAWINGS BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE IN ACCORDANCE WITH A.I.S.C. BOLTING PROCEDURES (STANDARDIZED STRUCTURAL CONNECTIONS).

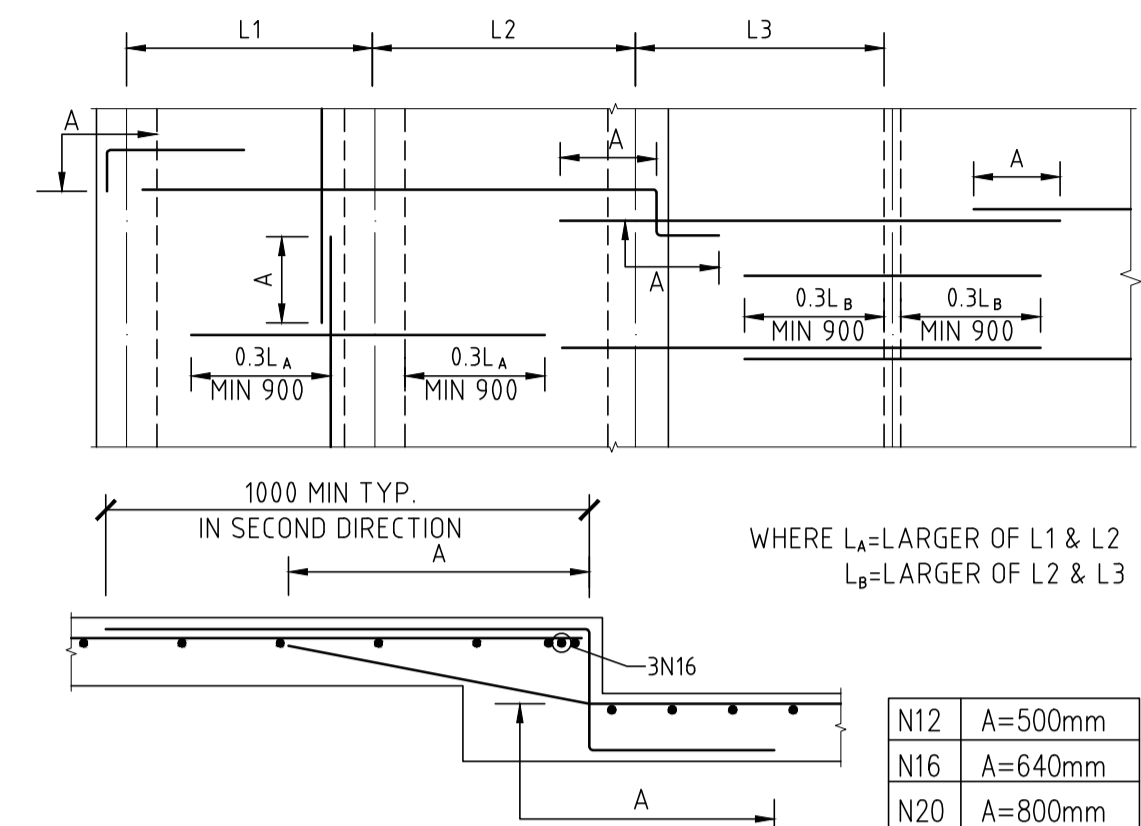
S5 ALL CLEAT SAND DRILLING FOR FIXING OF TIMBER MEMBERS ETC., TO BE PROVIDED BY THE FABRICATOR.

S6 FACING SURFACES OF TF CONNECTIONS AND ENCASED STRUCTURAL STEELWORKS SHALL BE LEFT UNPAINTED AND FREE FROM SCALE. CONCRETE ENCASED STRUCTURAL STEELWORKS SHALL BE ENCLOSED BY F41 MESH PLACED 25mm CLEAR OF STEEL. ENCASING TO PROVIDE 50mm MINIMUM COVER, U.N.O..

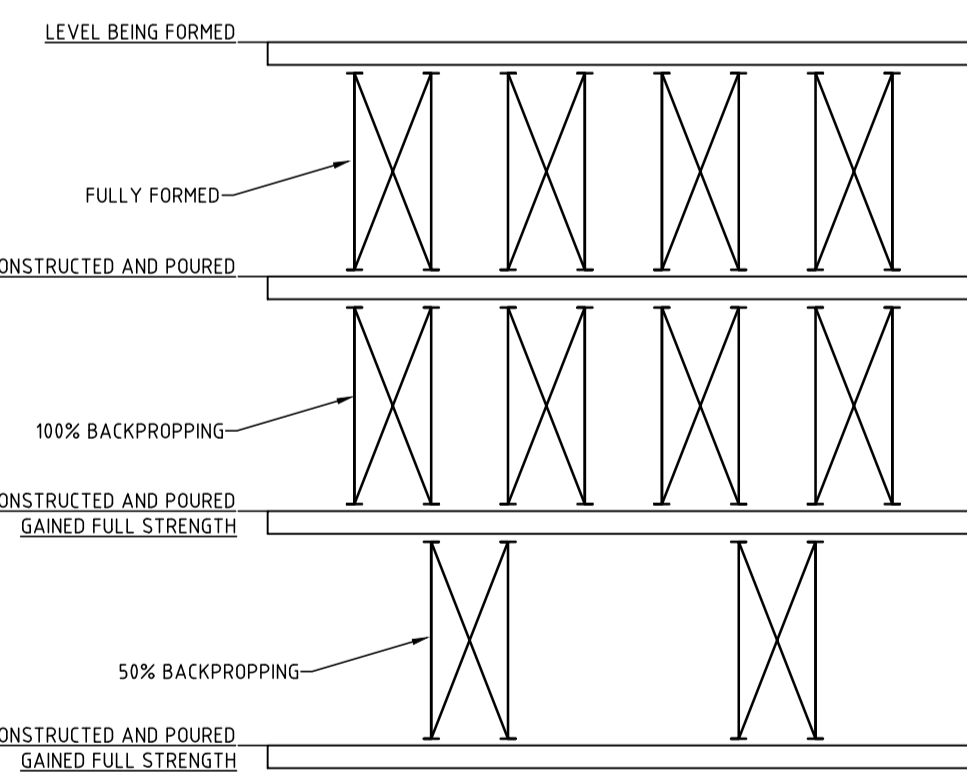
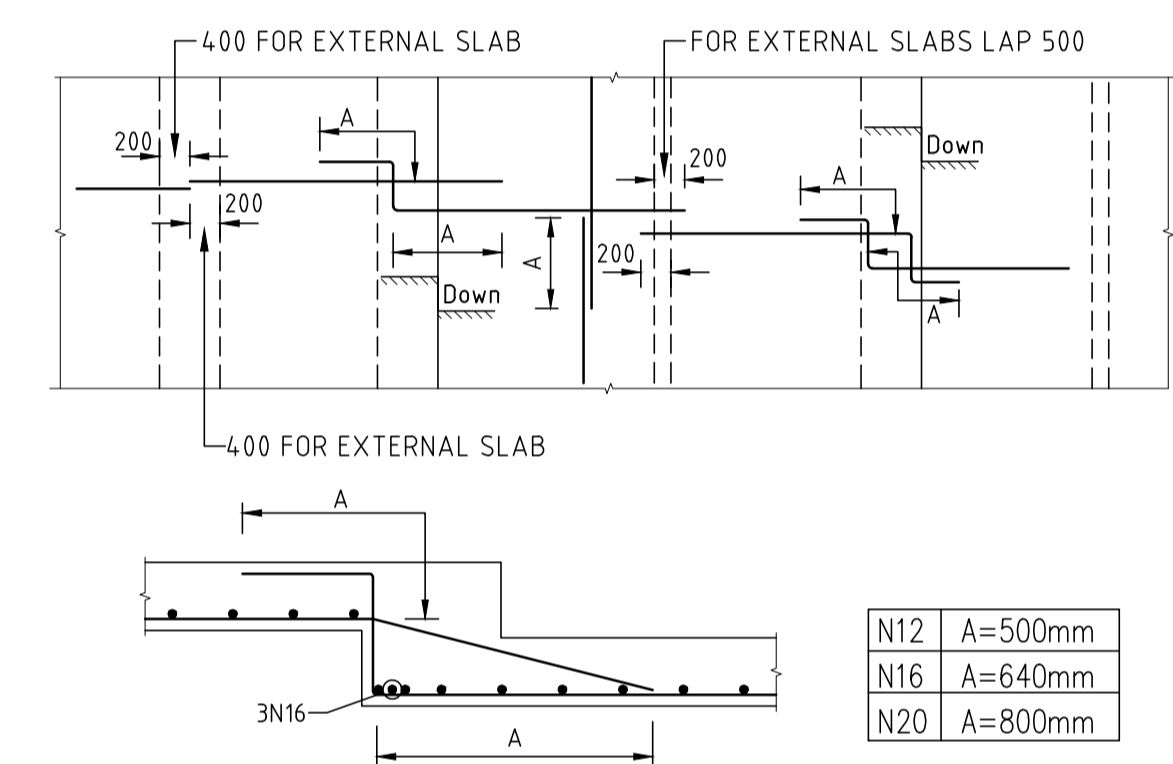
S7 ALL STRUCTURAL STEELWORKS BELOW GROUND SHALL BE ENCASED BY CONCRETE 75mm MIN. ALL ROUND.

S8 CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS, ETC. TO BE 5 FOR EVERY 2000 OF SPAN, UNLESS SPECIFIED ON THE DRAWINGS.

TOP REINFORCEMENT LENGTH



BOTTOM REINFORCEMENT LENGTH



TYPICAL BACK PROPPING SEQUENCE FOR REINFORCED CONCRETE SLABS

NOTES

1. 50% BACKPROPPING DENOTES PROPS AT NO GREATER THEN 3.6m CENTERS.
2. ENSURE ANY UNSTRESSED DECK NEEDS TO BE SUPPORTED BY TWO FULLY STRESSED CONCRETE DECKS.
3. ALL FORMWORK TO BE CERTIFIED BY STRUCTURAL ENGINEER BEFORE EACH CONCRETE POUR.

REV.	DATE	BY	CHECKED	AMENDMENTS
B	19.07.23	H.H.	S.W.W.	FOR CC
A	07 JUL 23	H.H.	S.W.W.	PRELIMINARY ISSUE

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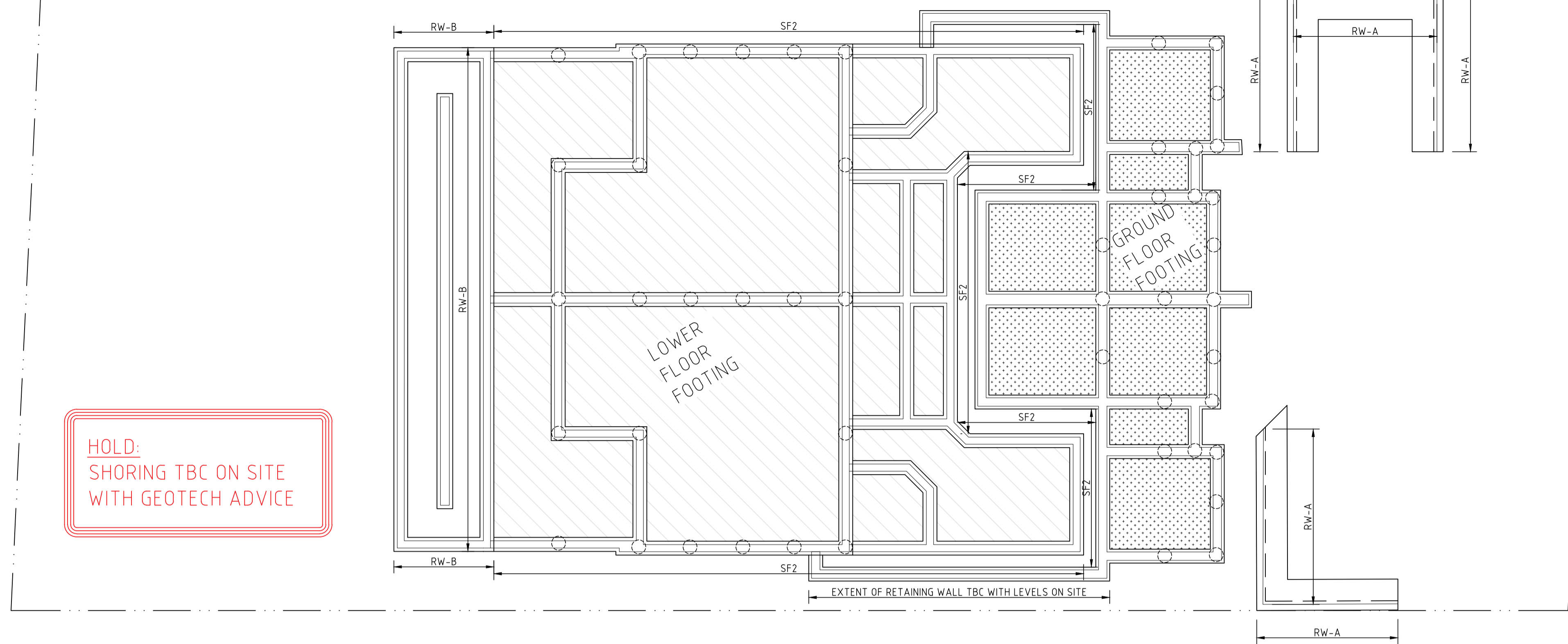
DRAWING TITLE
STRUCTURAL NOTES

No. in SET	JOB No	2150.23	DRG. No	REV
	DESIGNED	DRAWN	S0	A
SCALE	N.T.S.	S.W.W.	DATE	No.
		H.H.	07 JULY 2023	

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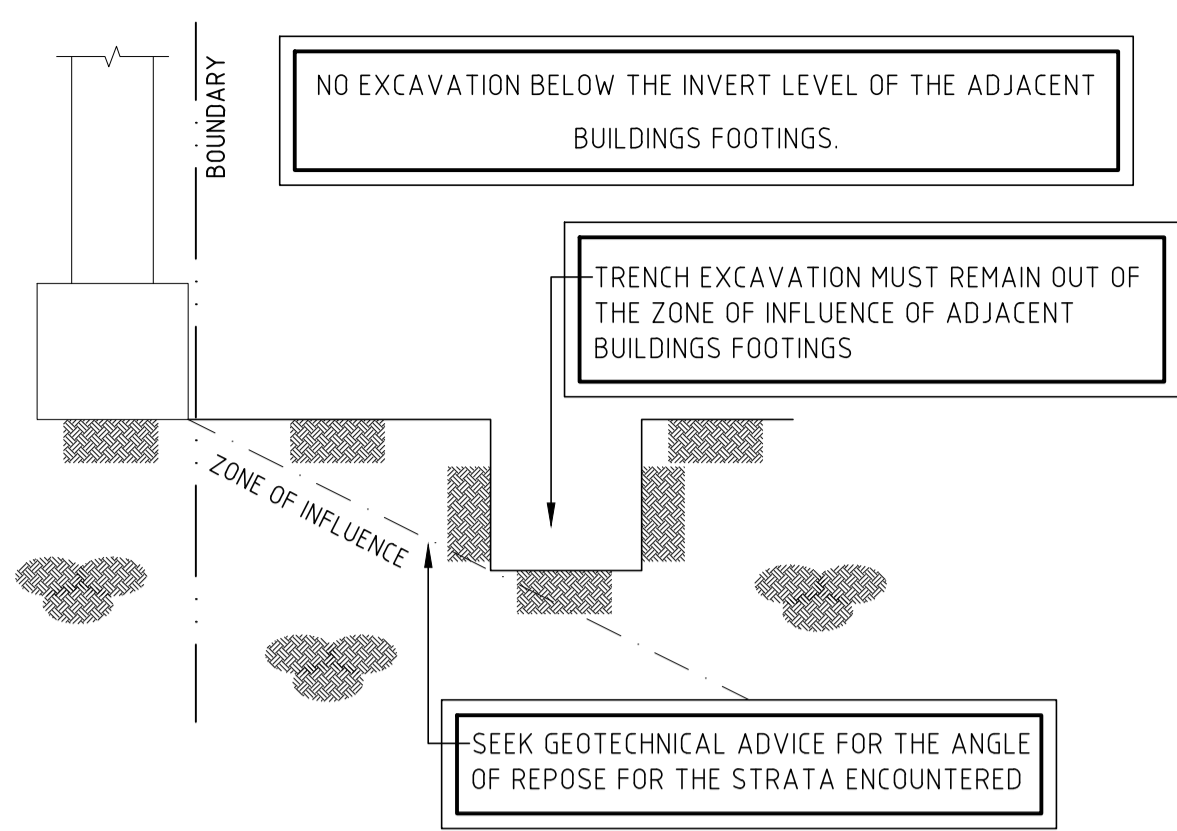
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FOR COORDINATION ONLY



HOLD:
SHORING TBC ON SITE
WITH GEOTECH ADVICE

NOTE: BACKFILL TO OCCUR AFTER
CONSTRUCTION OF UPPER SLAB



TYPICAL EXCAVATION ADJACENT TO
BOUNDARY DETAIL

RETAINING WALL NOTES

1. $\phi 100$ mm RIGID SLOTTED UPVC SUB-SOIL PIPE WRAPPED IN GEOFABRIC SOCK (@MIN.0.5% FALL) TO NEAREST AVAILABLE STORMWATER PIT.
2. 150mm SURROUND OF 20mm BLUE METAL OR GRAVEL.
3. GEOFABRIC SOUND TO BE "BIDUM" A24 FILTEWR FABRIC OR APPROVED EQUAL.
4. PROVIDE "E" SHAPED CLEAN-OUT BLOCK AT BASE OF RETAINING WALL. OMIT HORIZONTAL BAR FROM TOP OF THIS BLOCK.
5. IF TANKING MEMBRANE IS REQUIRED, THE DESIGN AND CERTIFICATION IS TO BE PROVIDED BY WATERPROOFING SPECIALIST.
6. REFER TO BLOCKWORK NOTES.

NOTE:
LMW TO INSPECT PRIOR
TO CONSTRUCTION TO
FINALISE ANY DESIGN
ASSUMPTIONS

FOOTING PLAN AND DETAILS SCALE: 1:100

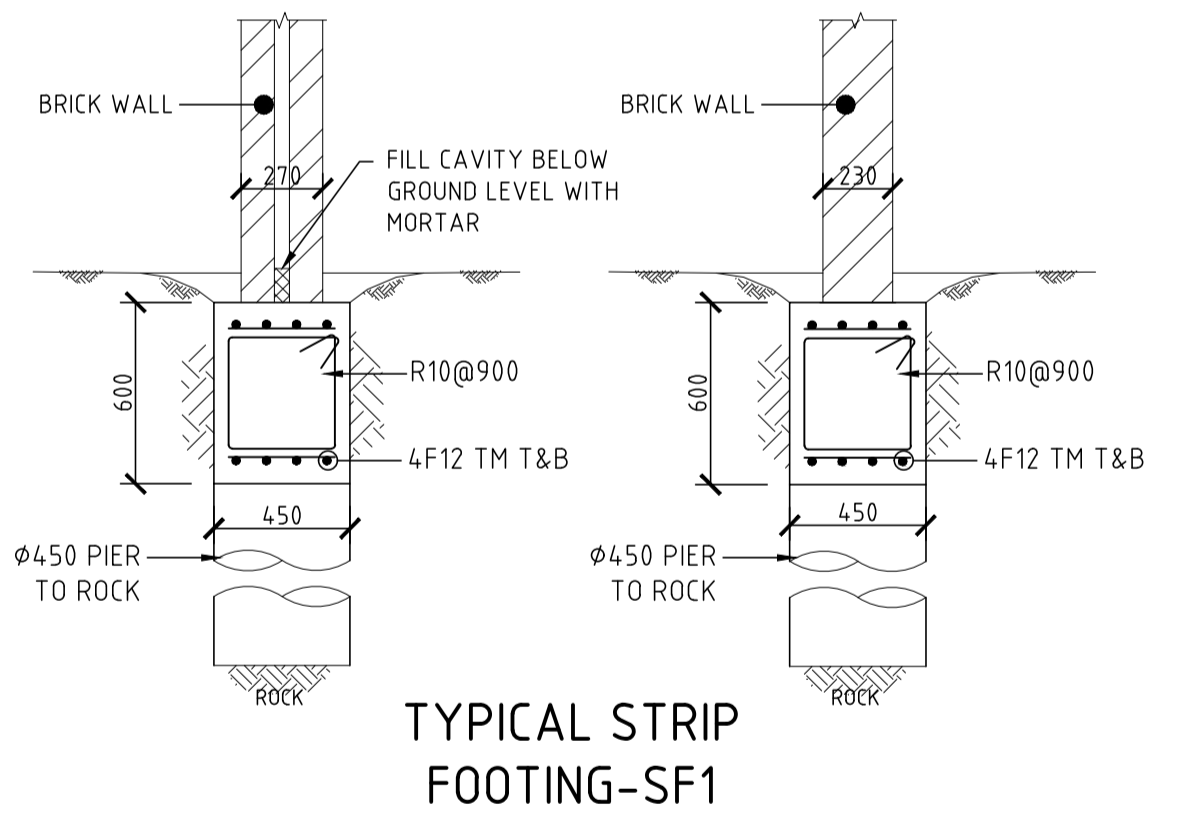
ALL FOOTINGS TO BE SF1 UNO.
PIER SPACING TO BE A MAXIMUM OF 1.5m - TBC UPON PARTIAL DEMOLITION.
ALL PIER TO BE FOUNDED ON CONSISTENT STRATA
WATERPROOFING TO BUILDER'S SPECS.
ALL LEVEL'S, RL'S, DIMENSIONS TO ARCHITECTURAL SPECIFICATIONS.
IF CONDITIONS VARY ON SITE, CONTACT ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
CURRENT FOOTING DESIGN FOR ROCK, TBC WITH SITE INSPECTION - SUBJECT TO CHANGE

RETAINING WALL RW-A SCHEDULE

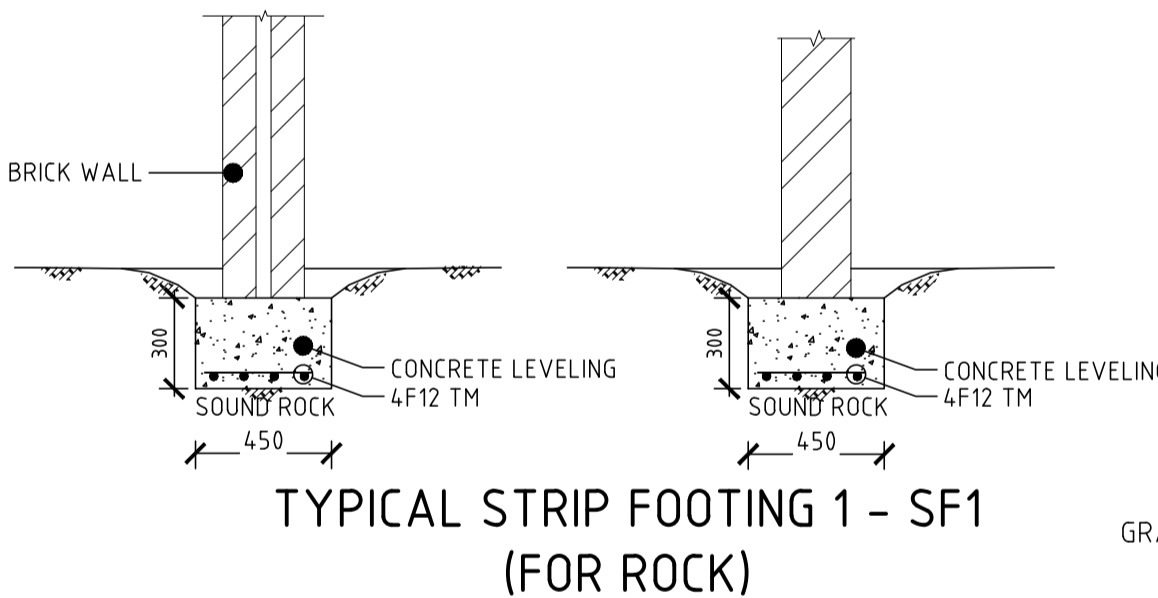
HIGH(mm)	B(mm)	D(mm)	T(mm)	"V" BAR	"X" BAR
0-1200	1000	400	200	N12@400	N12@400
1200-1600	1400	550	250	N16@400	N16@400
1600-2000	1600	650	250	N16@200	N16@200

RETAINING WALL RW-B SCHEDULE

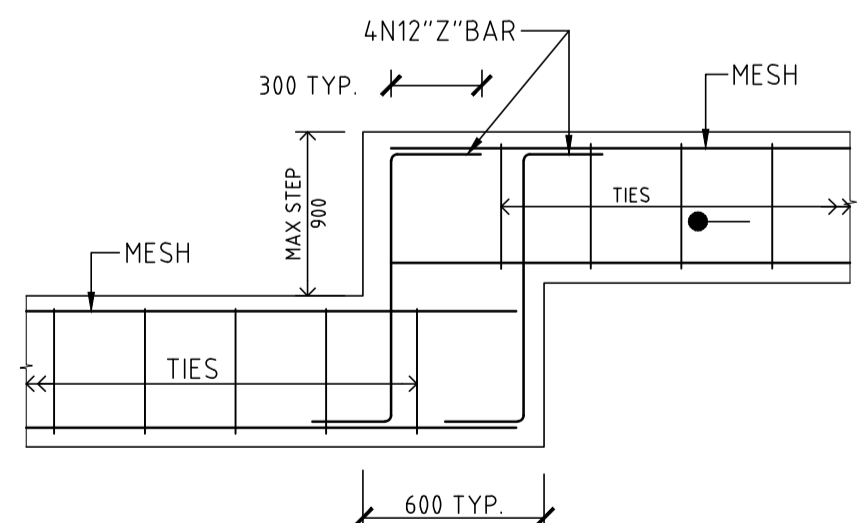
HIGH(mm)	"V" BAR	"K" BAR
0-1200	N12@400	N/A
1400-2000	N16@200	N/A
2200-2800	N16@200	N16@200
2800-3400	N20@200	N16@200



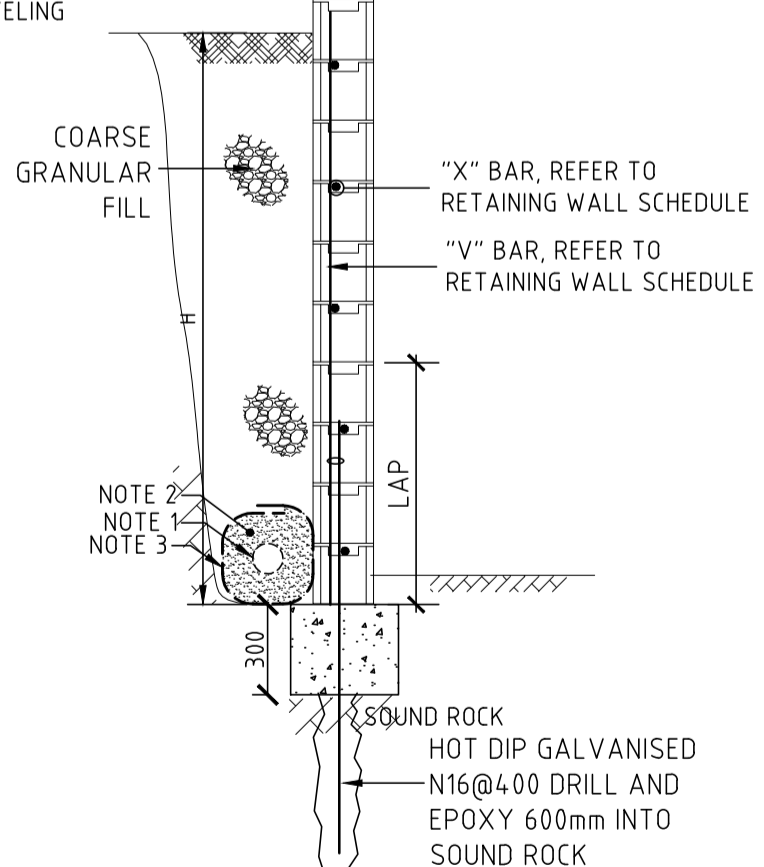
TYPICAL STRIP
FOOTING-SF1



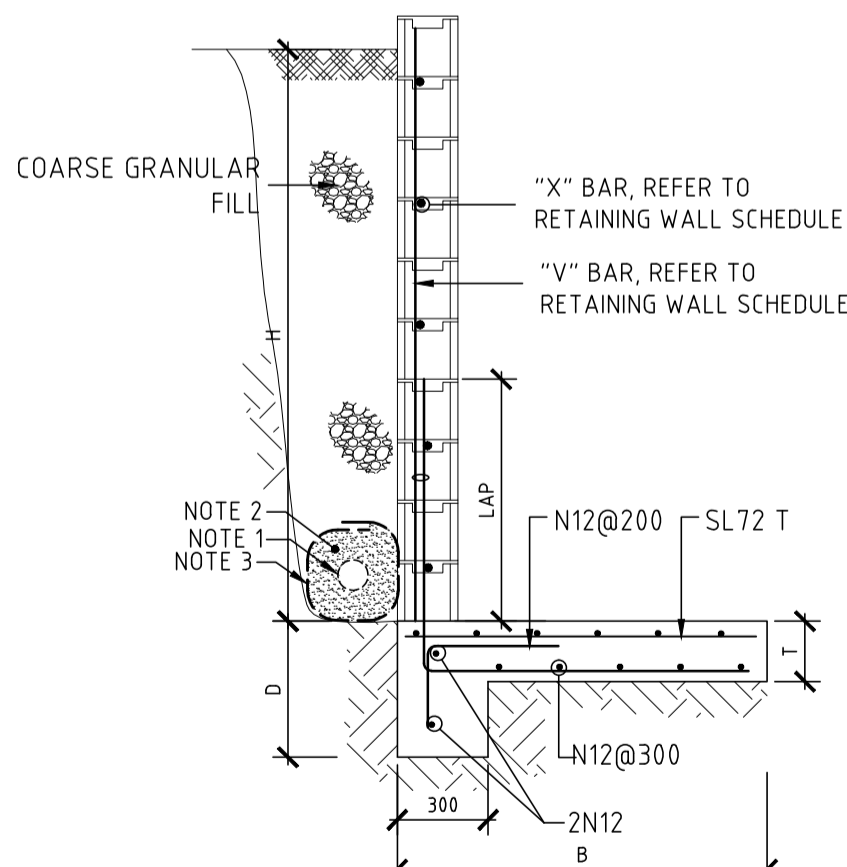
TYPICAL STRIP FOOTING 1 - SF1
(FOR ROCK)



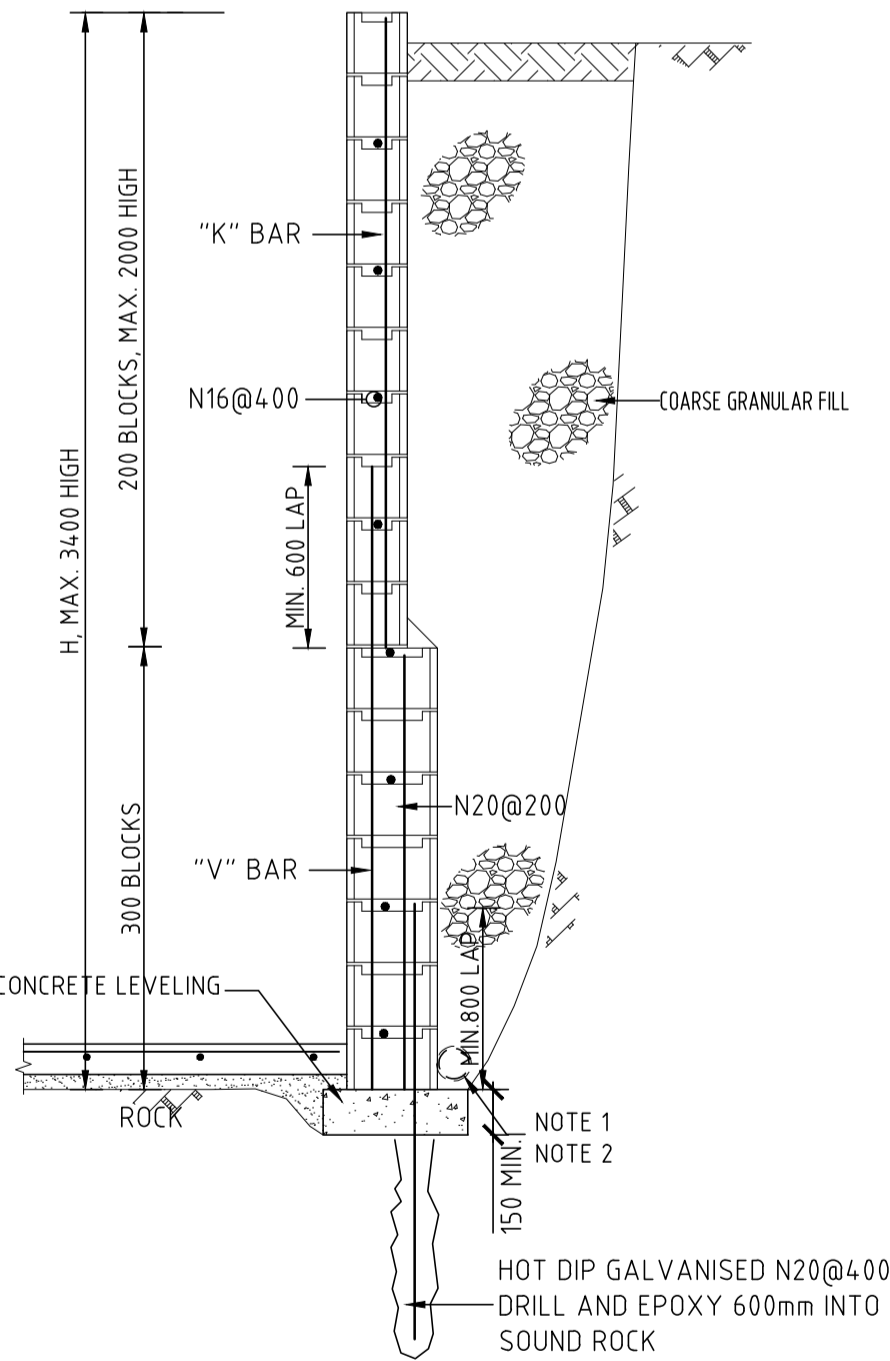
TYPICAL STRIP FOOTING
STEP DETAILS



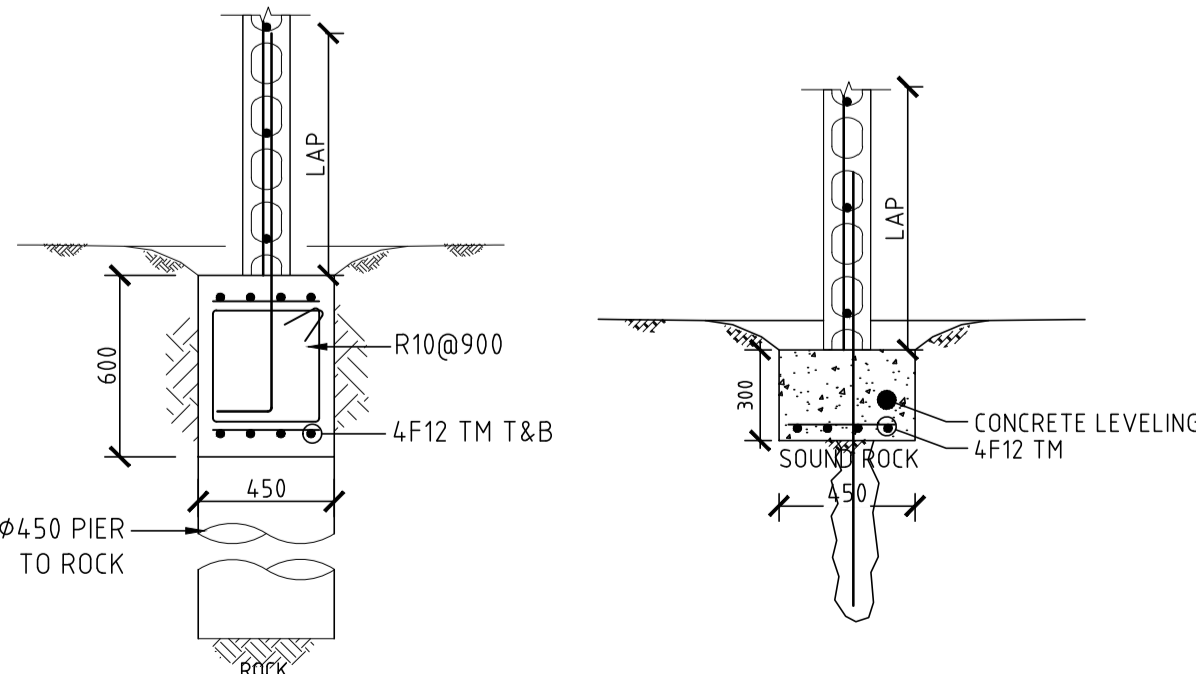
ALTERNATIVE RETAINING WALL
ON ROCK RW-A



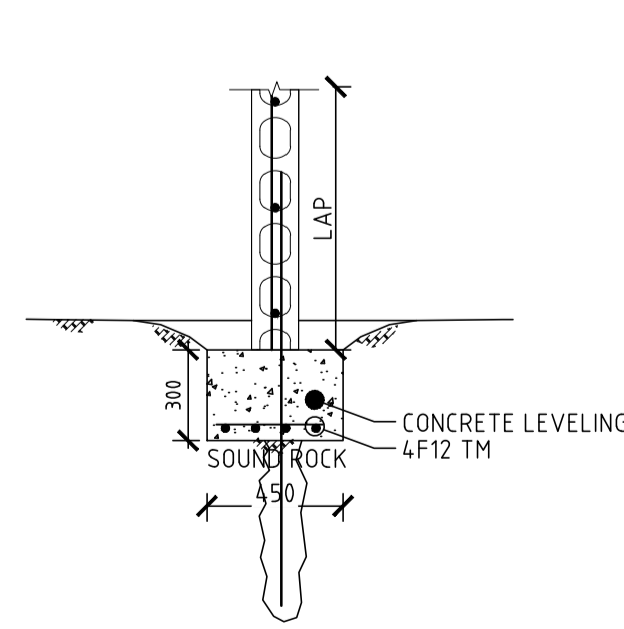
TYPICAL SECTION OF RETAINING
WALL ON SOIL RW-A



DETAILS OF RETAINING WALL RW-B



TYPICAL STRIP
FOOTING-SF2



TYPICAL STRIP FOOTING 2
- SF2 (FOR ROCK)

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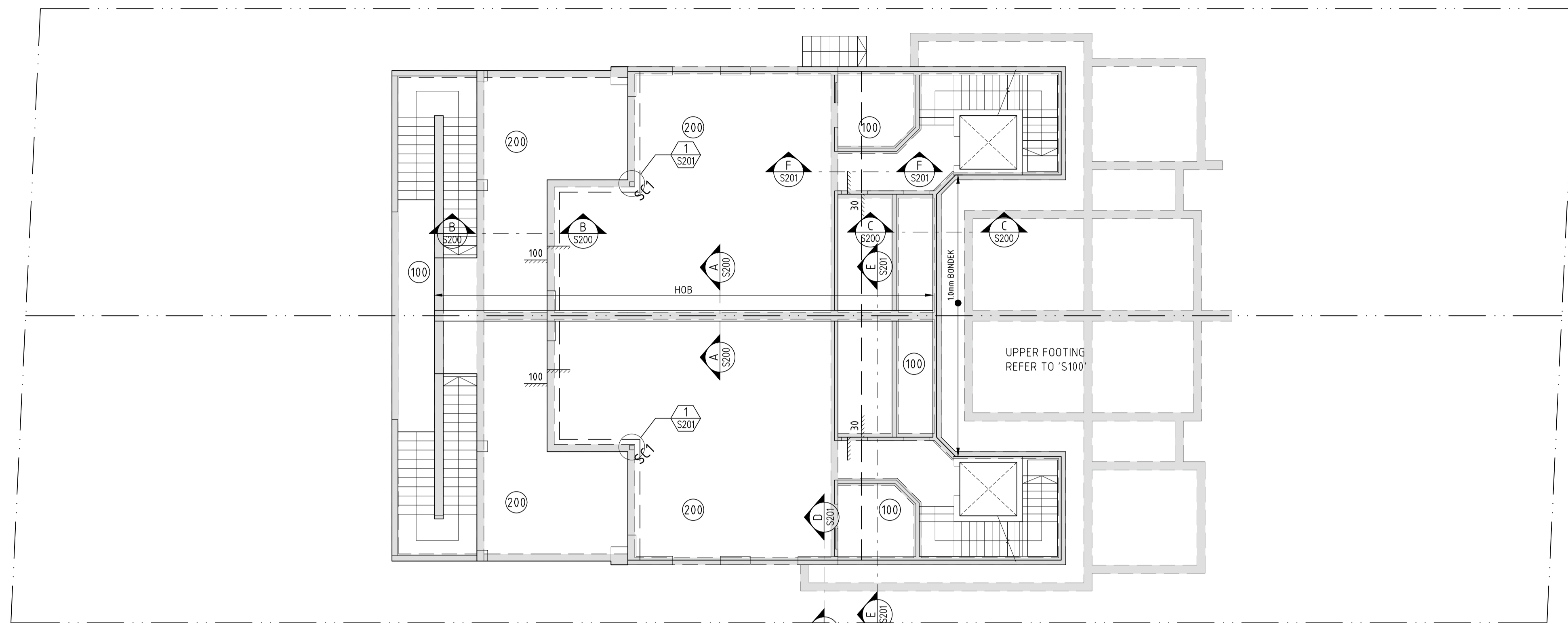
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DRAWING TITLE
FOOTINGS PLAN AND DETAILS

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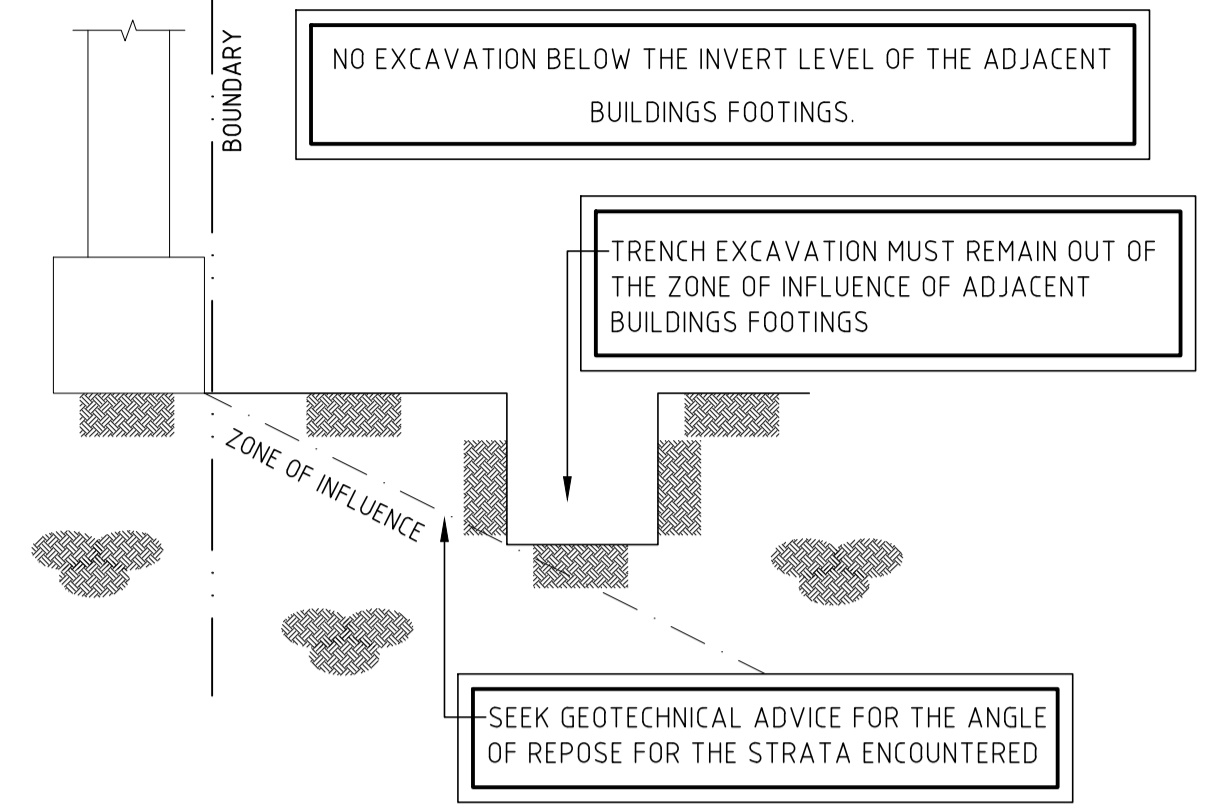
LOWER GROUND FLOOR SLAB PLAN AND DETAILS SCALE: 1:100

THICKNESS OF SLAB TO BE 200mm UNO.
 WATERPROOFING TO BUILDER'S SPECS.
 ALL LEVEL'S, RL'S, DIMENSIONS TO ARCHITECTURAL SPECIFICATIONS.
 IF CONDITIONS VARY ON SITE, CONTACT ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
 CURRENT FOOTING DESIGN FOR ROCK, TBC WITH SITE INSPECTION - SUBJECT TO CHANGE

NOTES

1. CONCRETE GRADES TO BE AS FOLLOWS:
 EXTERNAL: N32
 INTERNAL: N32
2. CONCRETE COVER TO REINFORCEMENT TO BE AS FOLLOWS:
 INTERNAL: 20mm
 EXTERNAL: 40mm
3. FOR STAIR STARTER BARS SEE STAIR DWG.
4. BLOCKWORK REINFORCEMENT IS NOT SHOWN FOR CLARITY.

NOTE: ALL PROPRIETARY ITEMS TO BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS



TYPICAL EXCAVATION ADJACENT TO BOUNDARY DETAIL

NOTE:
 DRAWINGS NOT TO SCALE. ALL DRAWINGS SHOWN ARE DIAGRAMMATICALLY ONLY, SEE ARCHITECTS AND SURVEY DRAWINGS FOR DETAILS AND LEVELS RESPECTIVELY.

NOTE:
 THE BUILDER SHALL BE RESPONSIBLE FOR PROVIDING STABILITY TO ANY ADJACENT PROPERTY/BUILDING AND FOR PREVENTING ANY SETTLEMENT OR DAMAGE TO EXISTING STRUCTURES DURING CONSTRUCTION.

LOWER GROUND FLOOR STRUCTURAL STEELWORK SCHEDULE

MEMBER	MARK	DESCRIPTION	REMARKS
COLUMN	SC1	150X150X10 SHS	HOT DIPPED GALVANISED (300g/m2)

NOTES

1. ALL WELDS TO BE CONTINUOUS 6mm FILLET WELDS.

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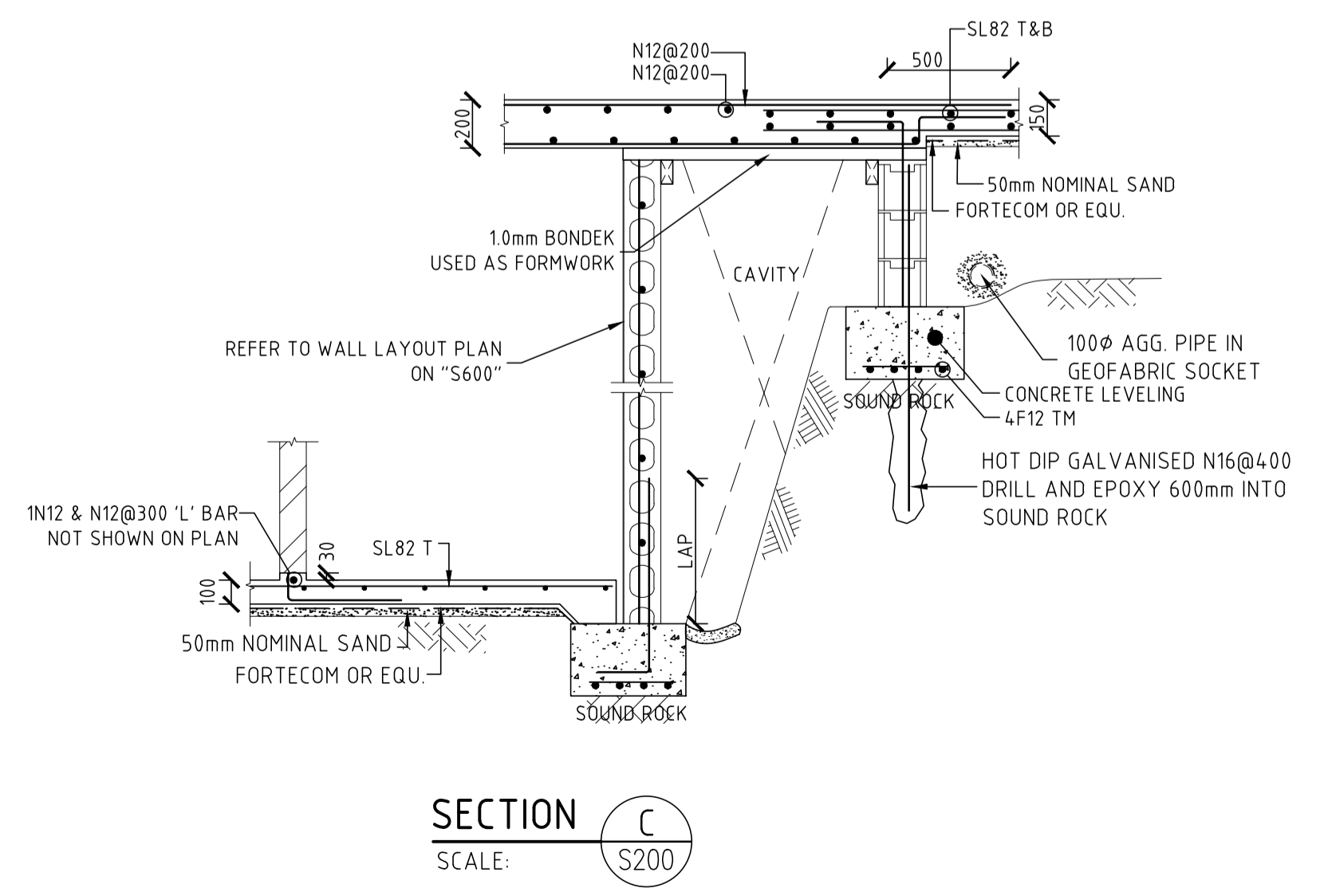
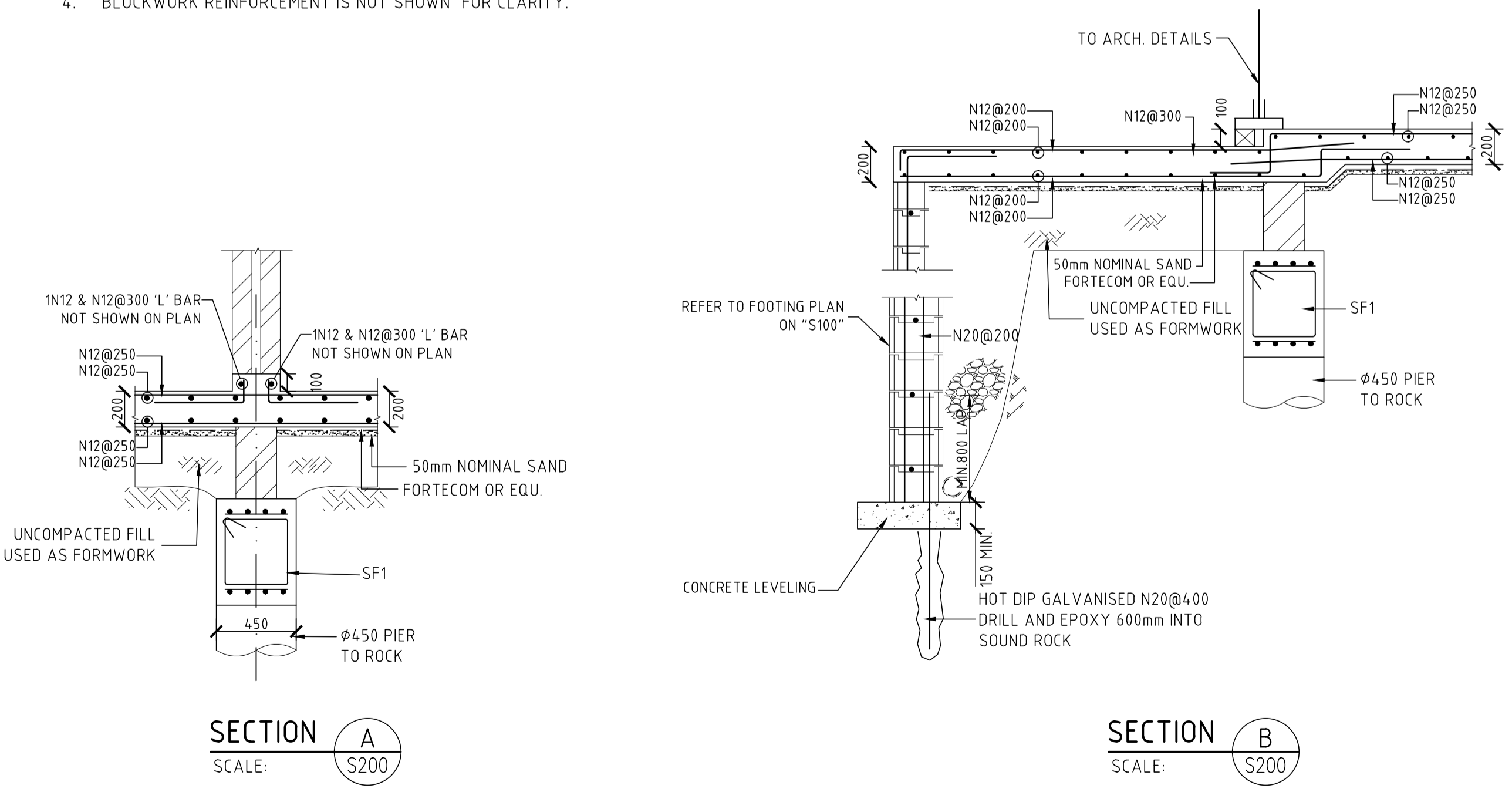
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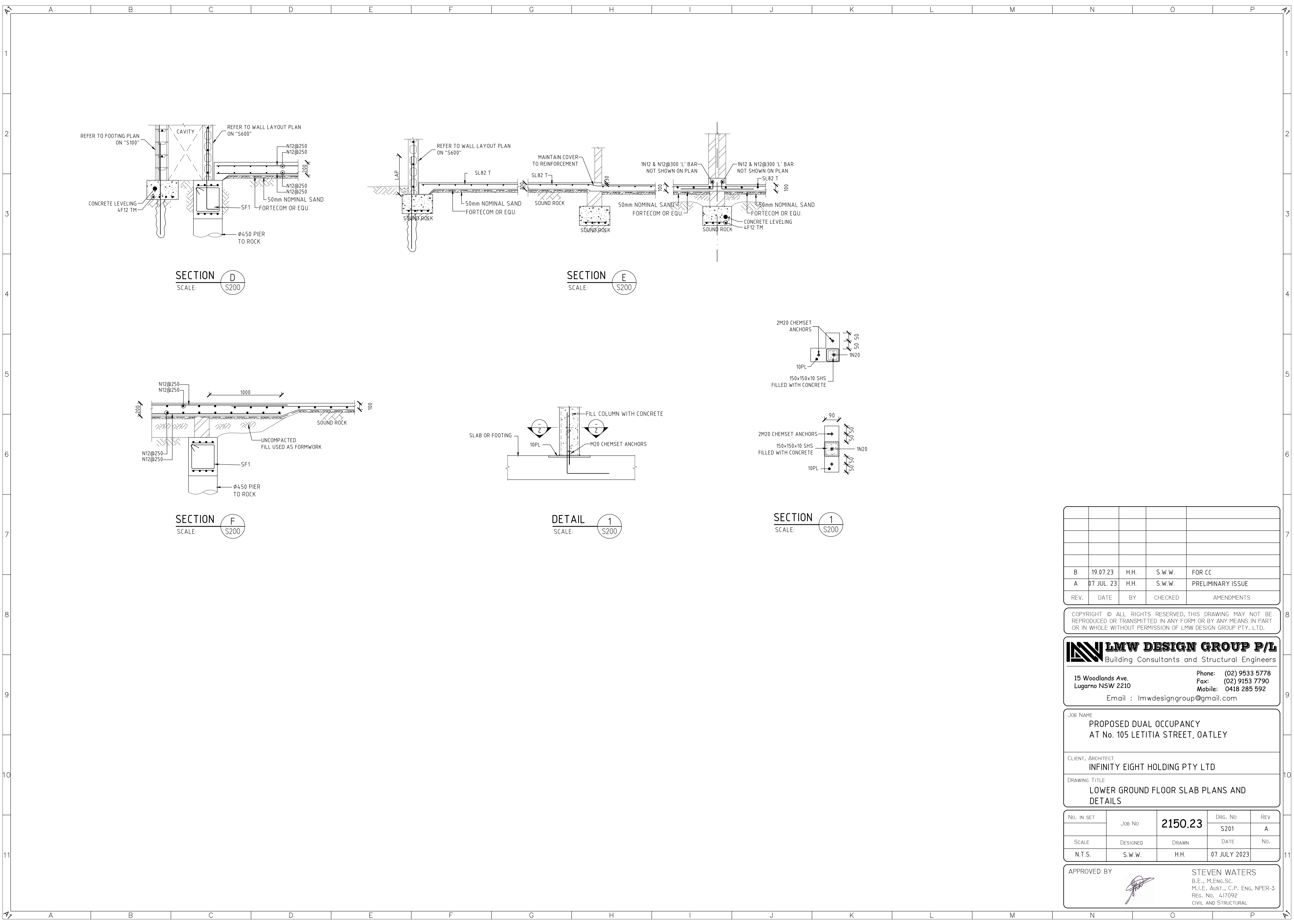
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 DRAWING TITLE
LOWER GROUND FLOOR SLAB PLANS AND DETAILS

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			S200	A
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SECTION D
SCALE: S200

SECTION E
SCALE: S200

SECTION F
SCALE: S200

DETAIL 1
SCALE: S200

SECTION 1
SCALE: S200

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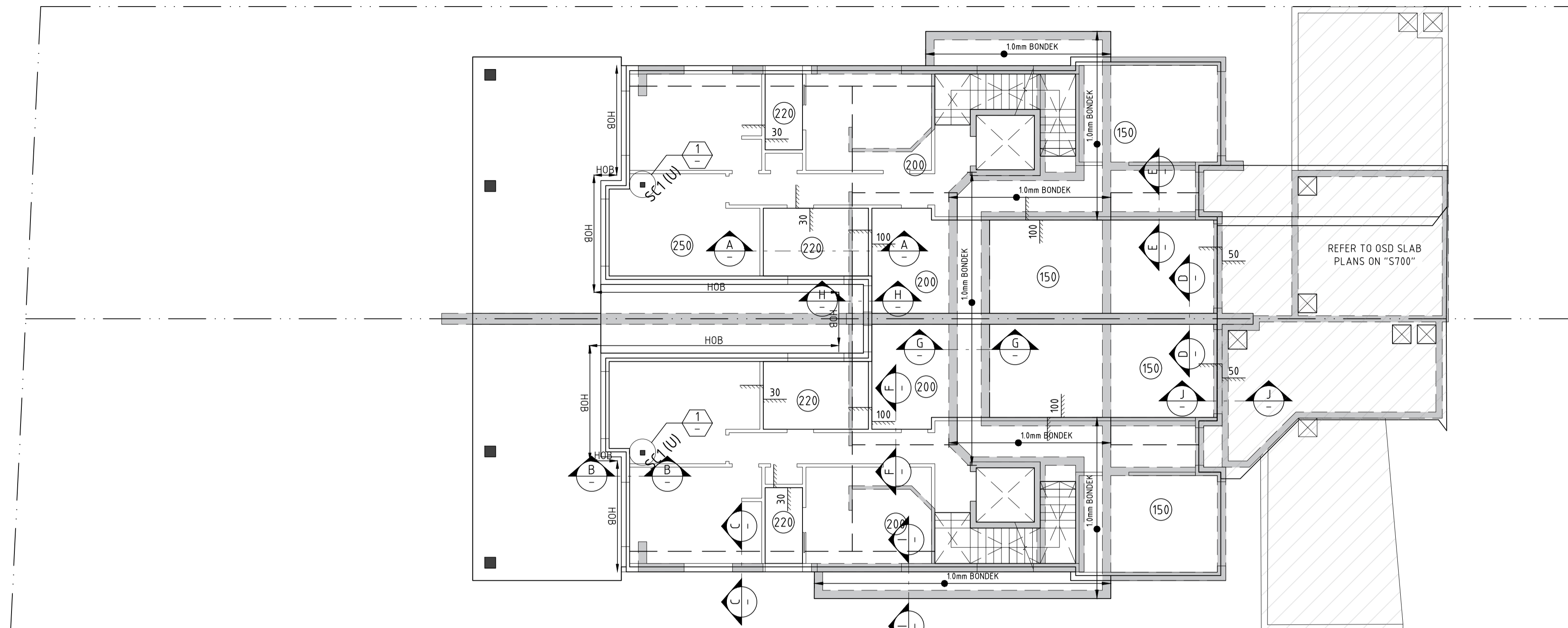
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DRAWING TITLE
**LOWER GROUND FLOOR SLAB PLANS AND
DETAILS**

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			S201	A
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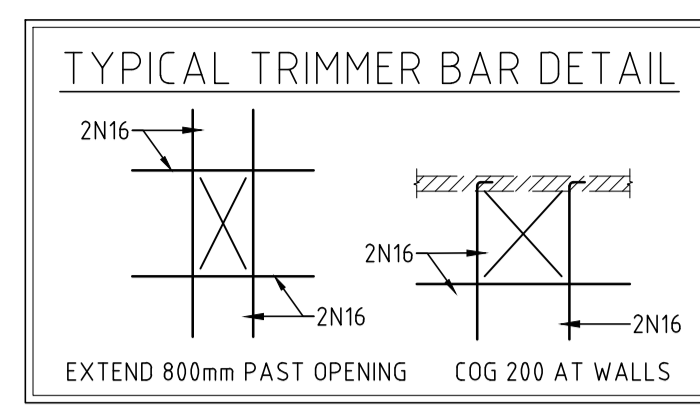
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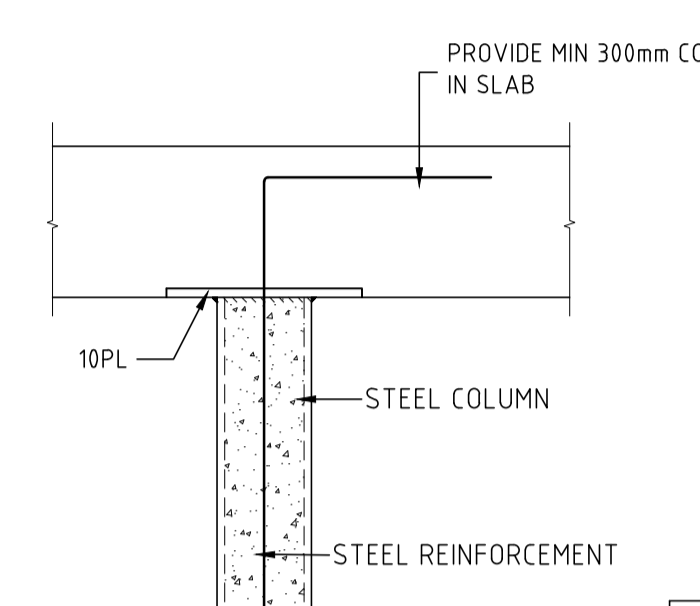


UPPER GROUND FLOOR SLAB PLAN AND DETAILS SCALE: 1:100

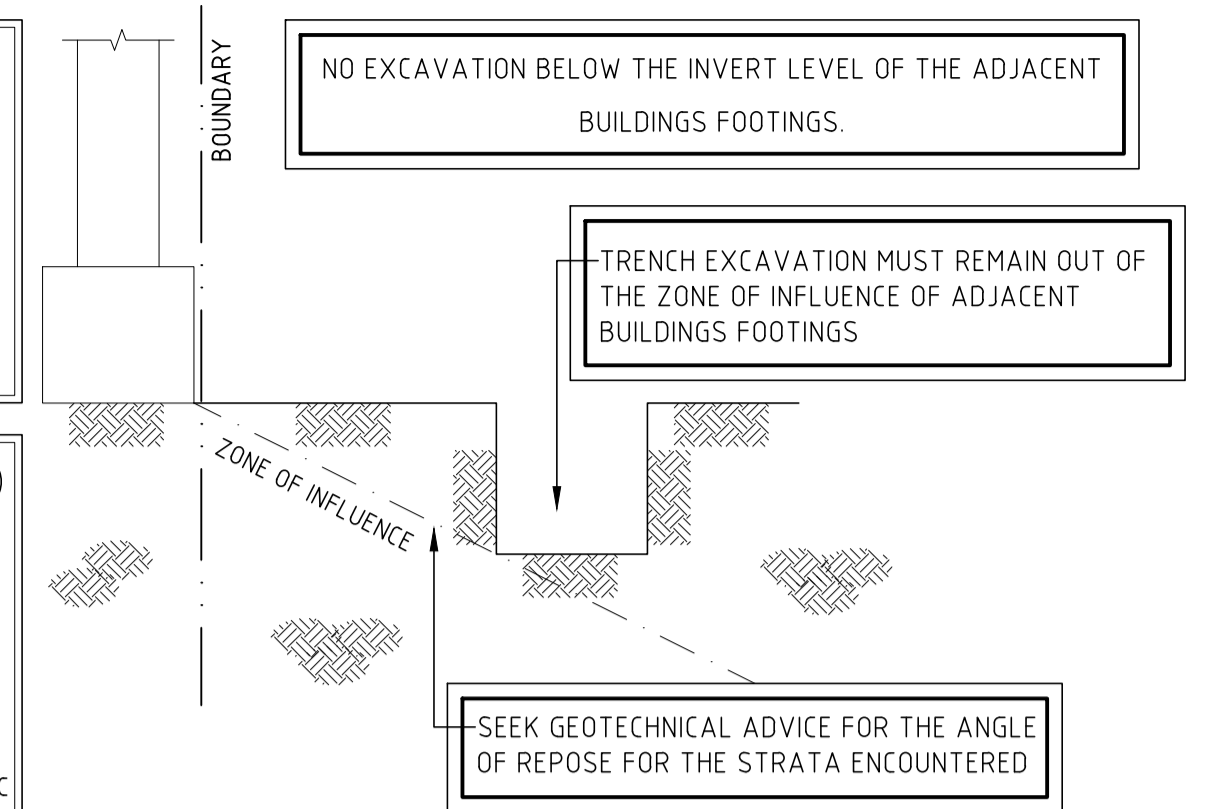
THICKNESS OF SLAB TO BE 250mm UNO.
 WATERPROOFING TO BUILDER'S SPECS.
 ALL LEVEL'S, RL'S, DIMENSIONS TO ARCHITECTURAL SPECIFICATIONS.
 IF CONDITIONS VARY ON SITE, CONTACT ENGINEER PRIOR TO COMMENCEMENT OF WORKS.



TYPICAL TRIMMER BAR DETAIL
 EXTEND 800mm PAST OPENING
 COG 200 AT WALLS



DETAIL 1
 SCALE: 1:100
DETAIL OF STEEL COLUMN - (SC1)

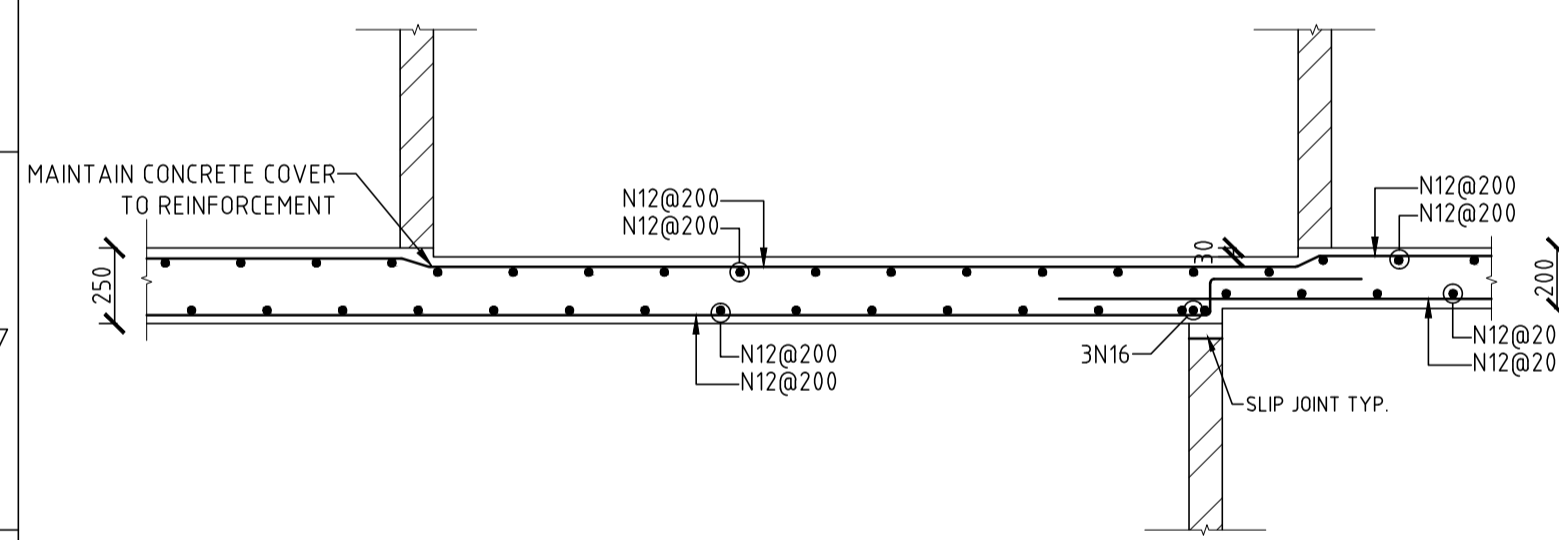


TYPICAL EXCAVATION ADJACENT TO BOUNDARY DETAIL

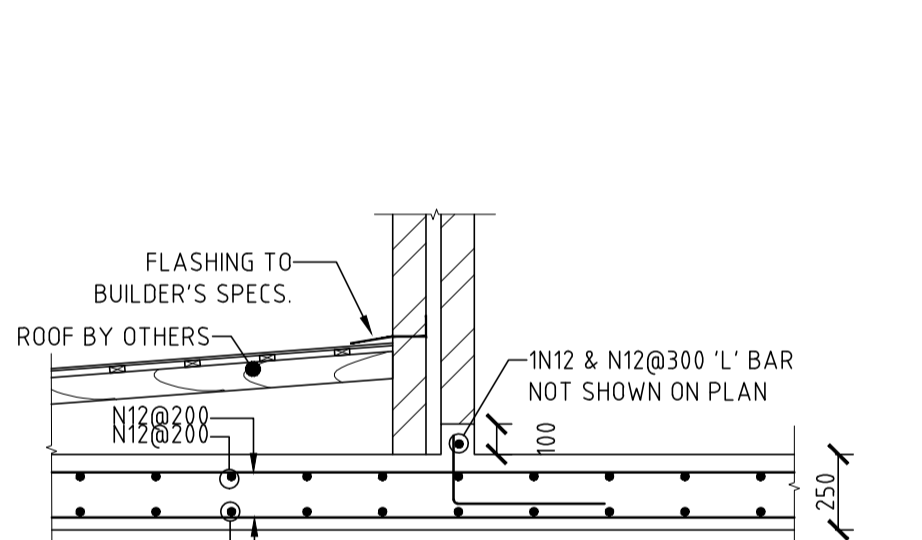
NOTE:
 DRAWINGS NOT TO SCALE. ALL DRAWINGS SHOWN ARE DIAGRAMMATICALLY ONLY, SEE ARCHITECTS AND SURVEY DRAWINGS FOR DETAILS AND LEVELS RESPECTIVELY.

NOTE:
 THE BUILDER AND SHORING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STABILITY TO ANY ADJACENT PROPERTY/BUILDING AND FOR PREVENTING ANY SETTLEMENT OR DAMAGE TO EXISTING STRUCTURES DURING CONSTRUCTION.

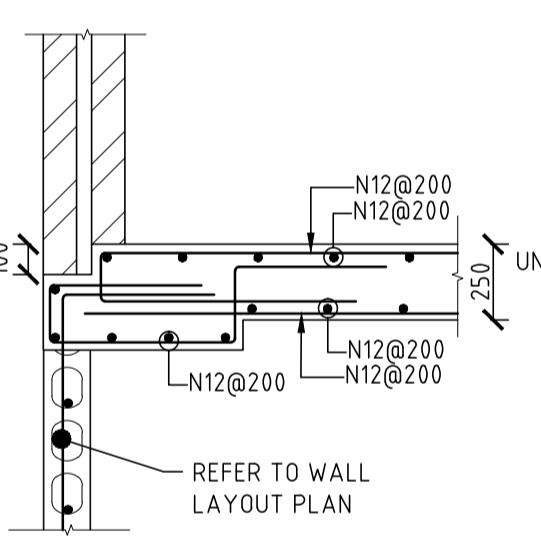
NOTE:
 ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS" & THE NSW "CODE OF PRACTICE - EXCAVATION WORK"



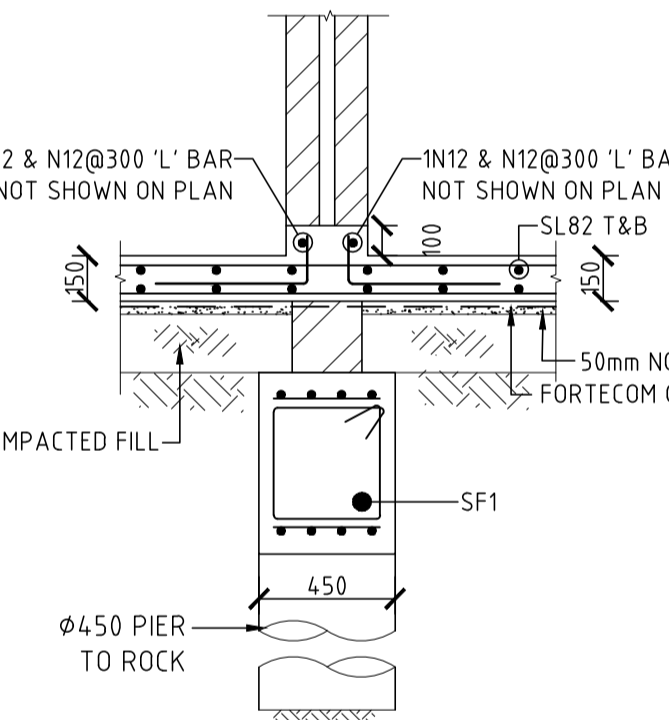
SECTION A
 SCALE: 1:100



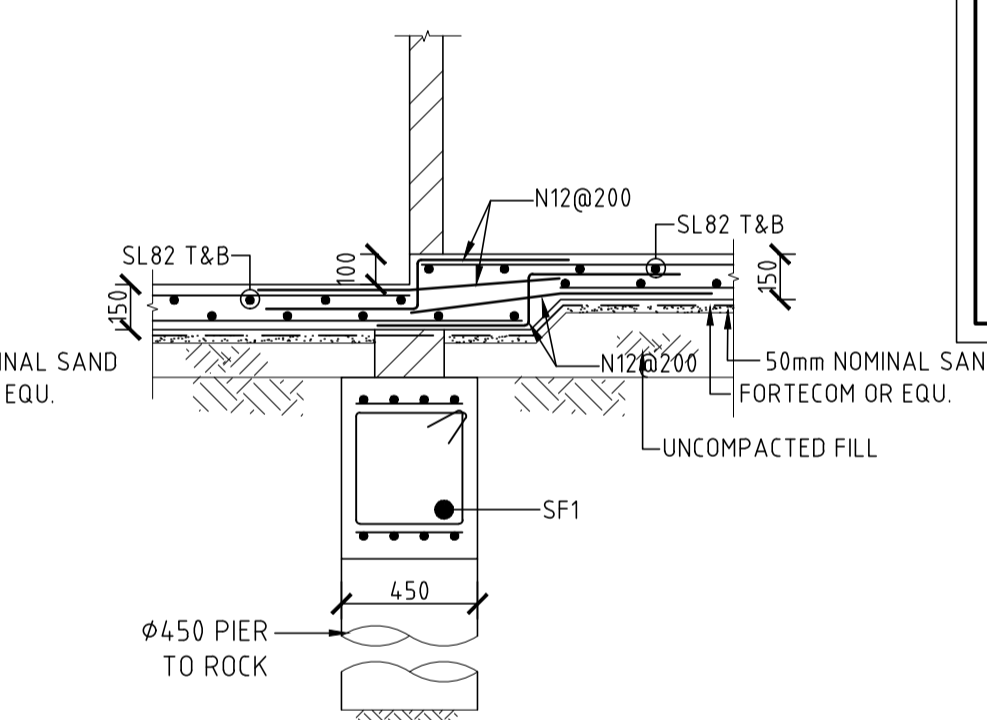
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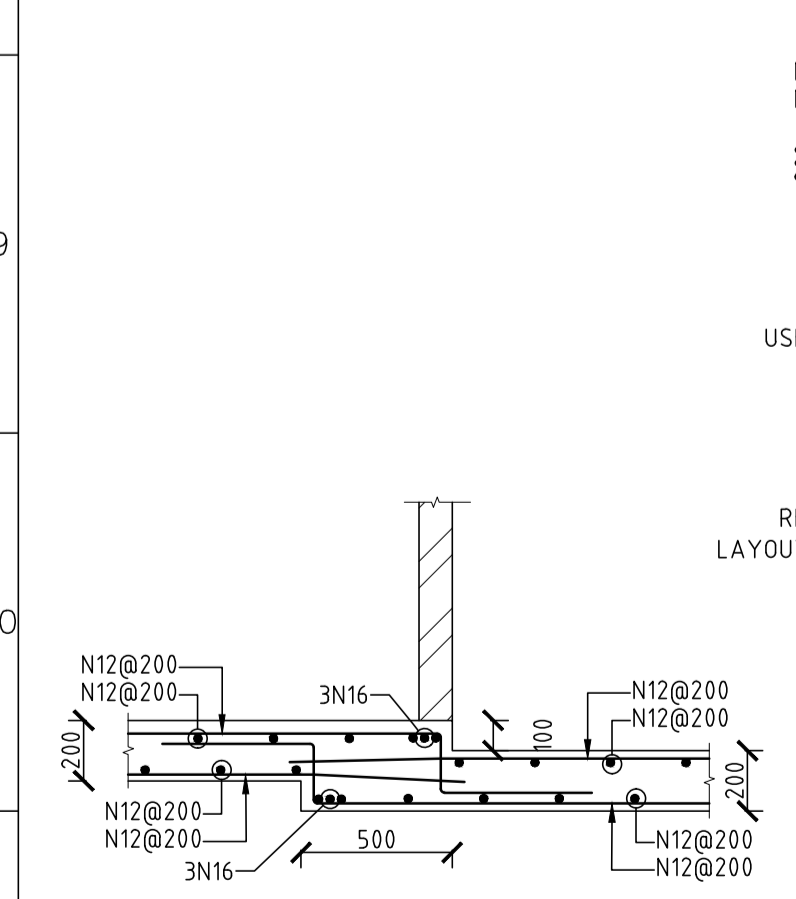
SECTION C
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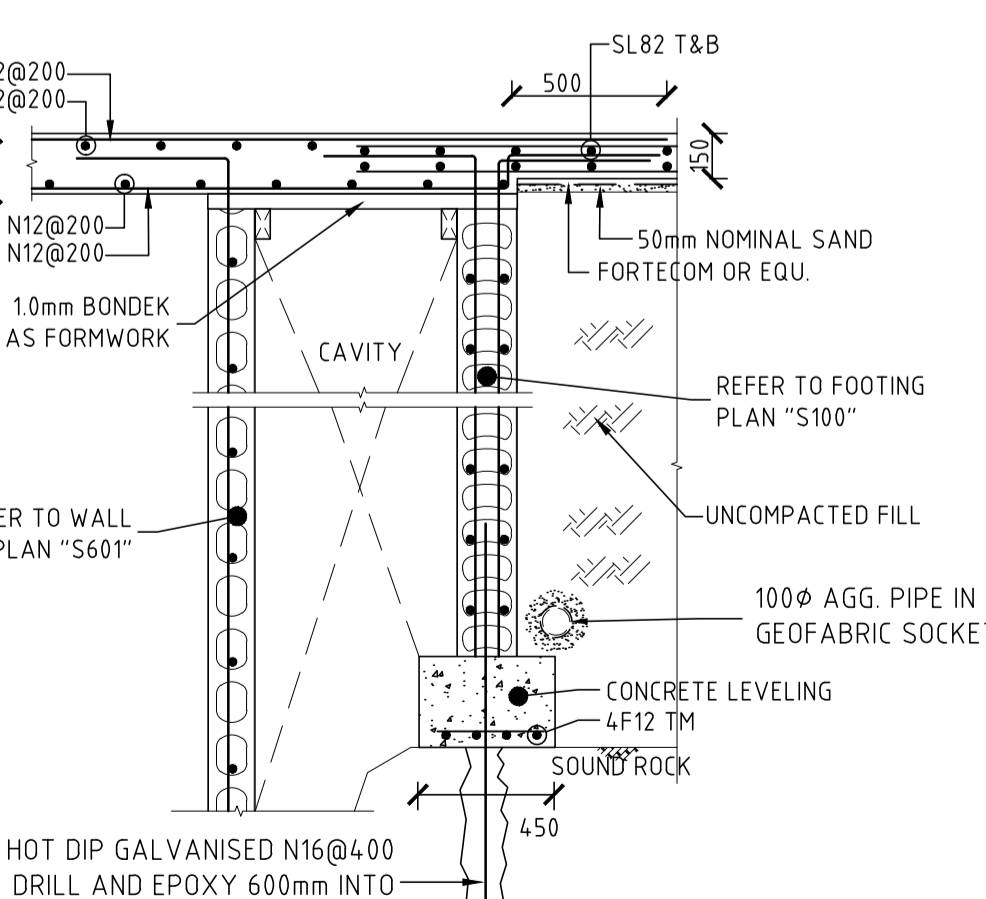
SECTION D
 SCALE: 1:100



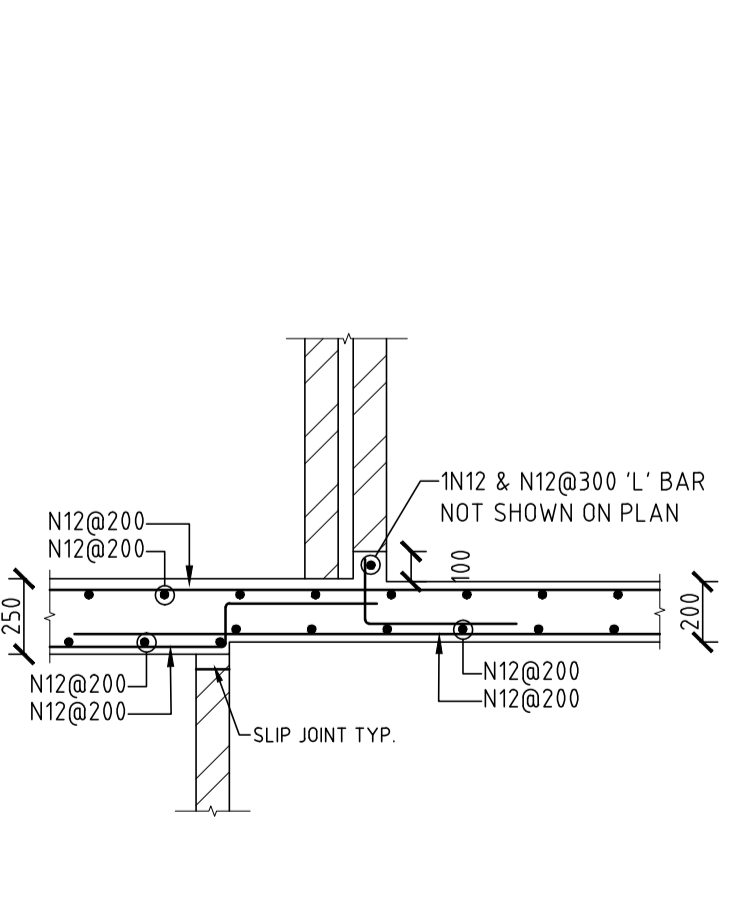
SECTION E
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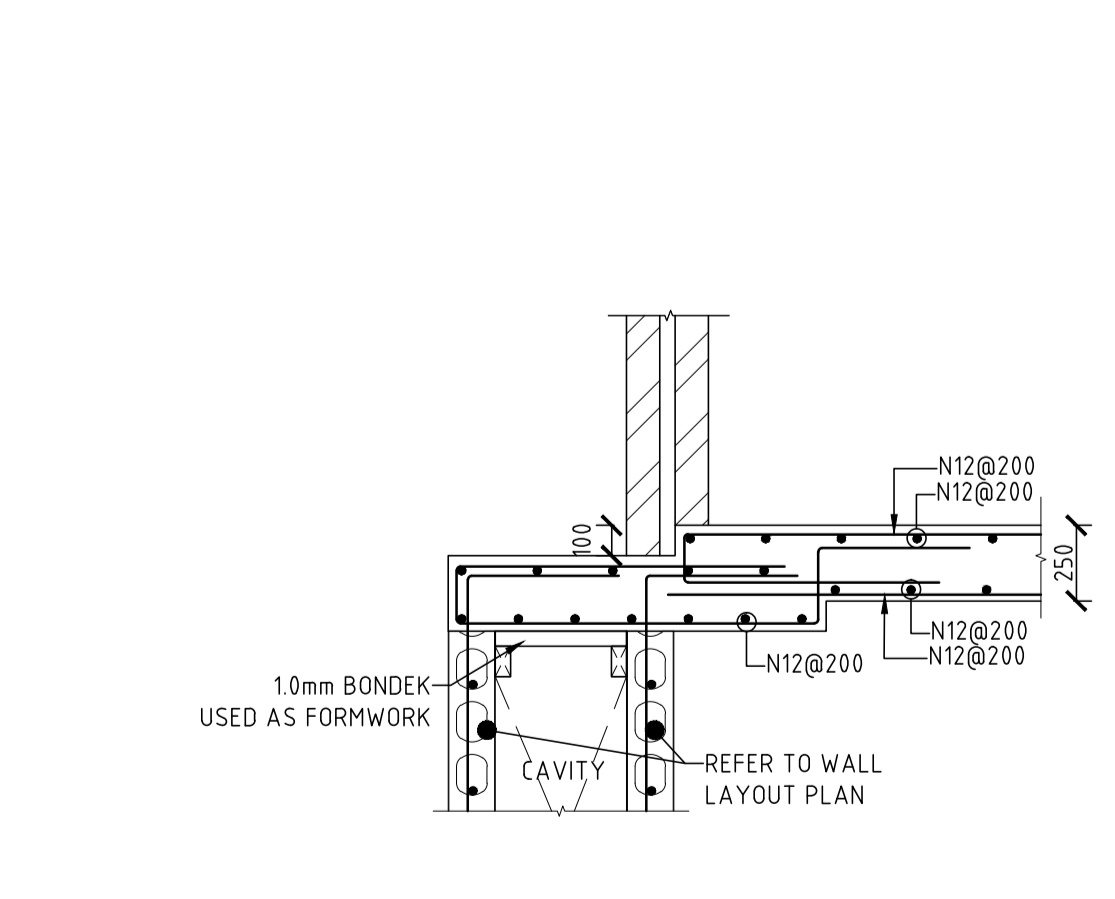
SECTION F
 SCALE: 1:100



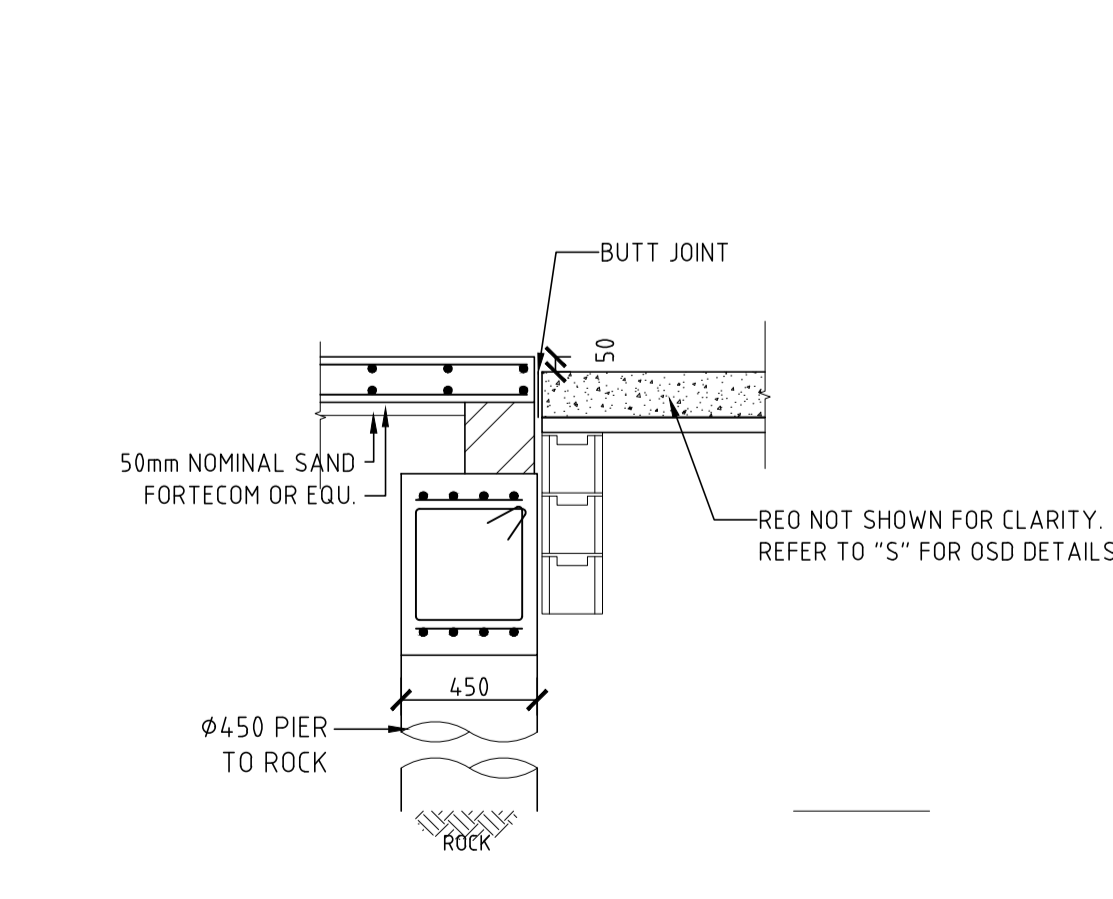
SECTION G
 SCALE: 1:100



SECTION H
 SCALE: 1:100



SECTION I
 SCALE: 1:100



SECTION J
 SCALE: 1:100

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JOB NAME
PROPOSED DUAL OCCUPANCY
AT No. 105 LETITIA STREET, OATLEY

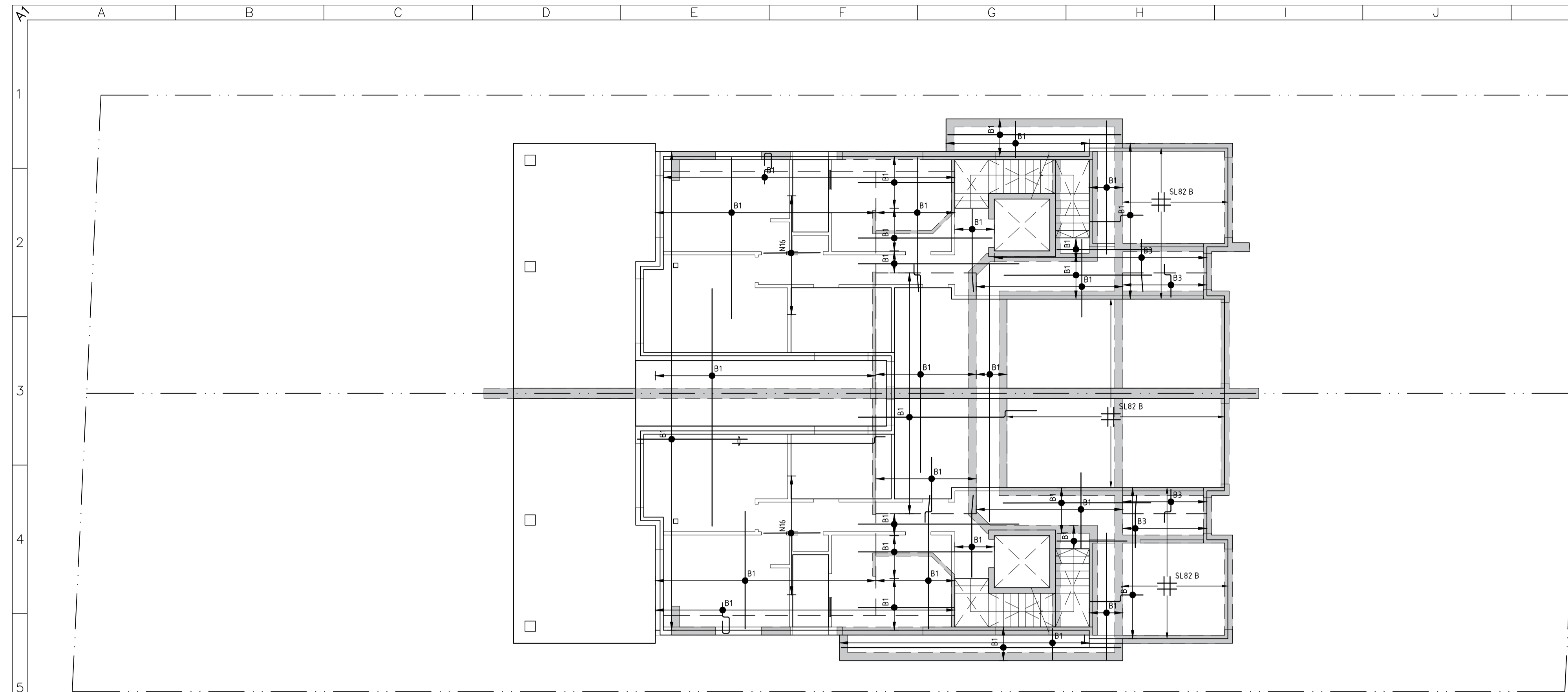
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INFINITY EIGHT HOLDING PTY LTD

DRAWING TITLE
GROUND FLOOR SLAB PLANS AND DETAILS

No. IN SET	JOB No	2150.23	DRG. No	REV
SCALE	DESIGNED	DRAWN	DATE	No.
N.T.S.	S.W.W.	A.D.	07 JUL 2023	

APPROVED BY

STEVEN WATERS
 B.E., M.Eng.Sc.
 M.I.E. Aust., C.P. Eng, NPER-3
 REG. No. 417092
 CIVIL AND STRUCTURAL



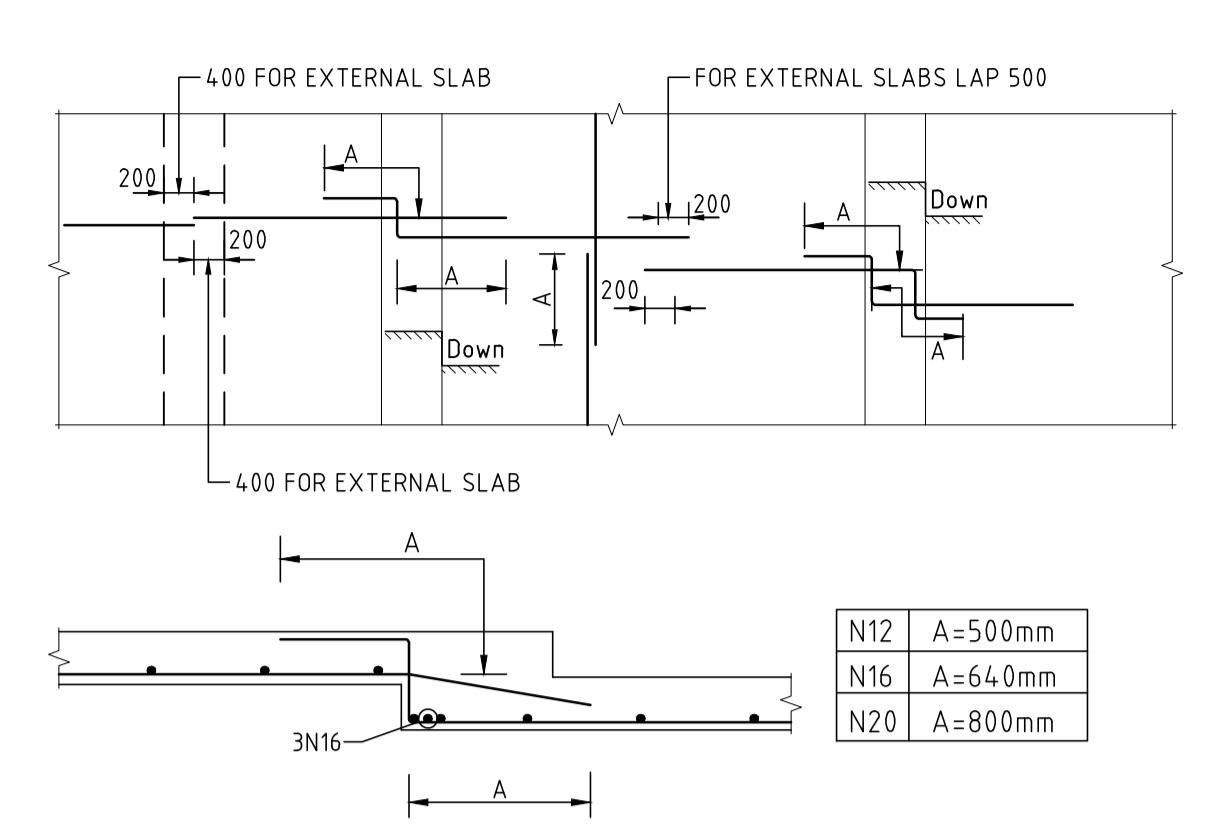
UPPER GROUND FLOOR BOTTOM REINFORCEMENT PLAN AND DETAILS SCALE: 1:100

REFER TO TYPICAL TRIMMER BAR DETAIL
 3N16 TRIMMER BARS AT ALL SLAB EDGES
 2N16 TRIMMER BAR AROUND ALL PENETRATIONS LESS THAN 450mm PER TYPICAL DETAIL
 3N16 TRIMMER BAR AROUND ALL PENETRATIONS GREATER THAN 450mm, EXTEND 800 PASSED PENETRATION

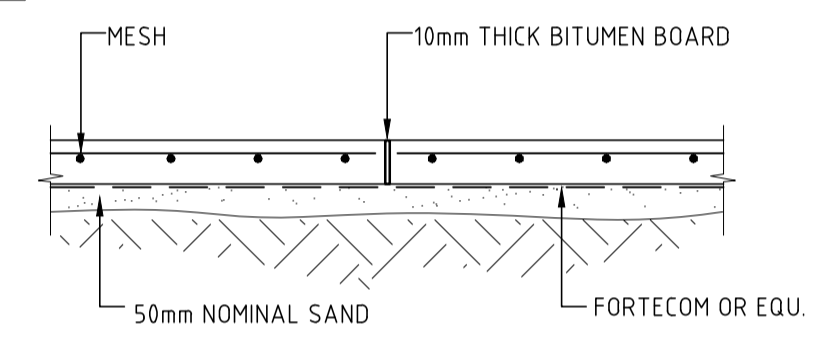
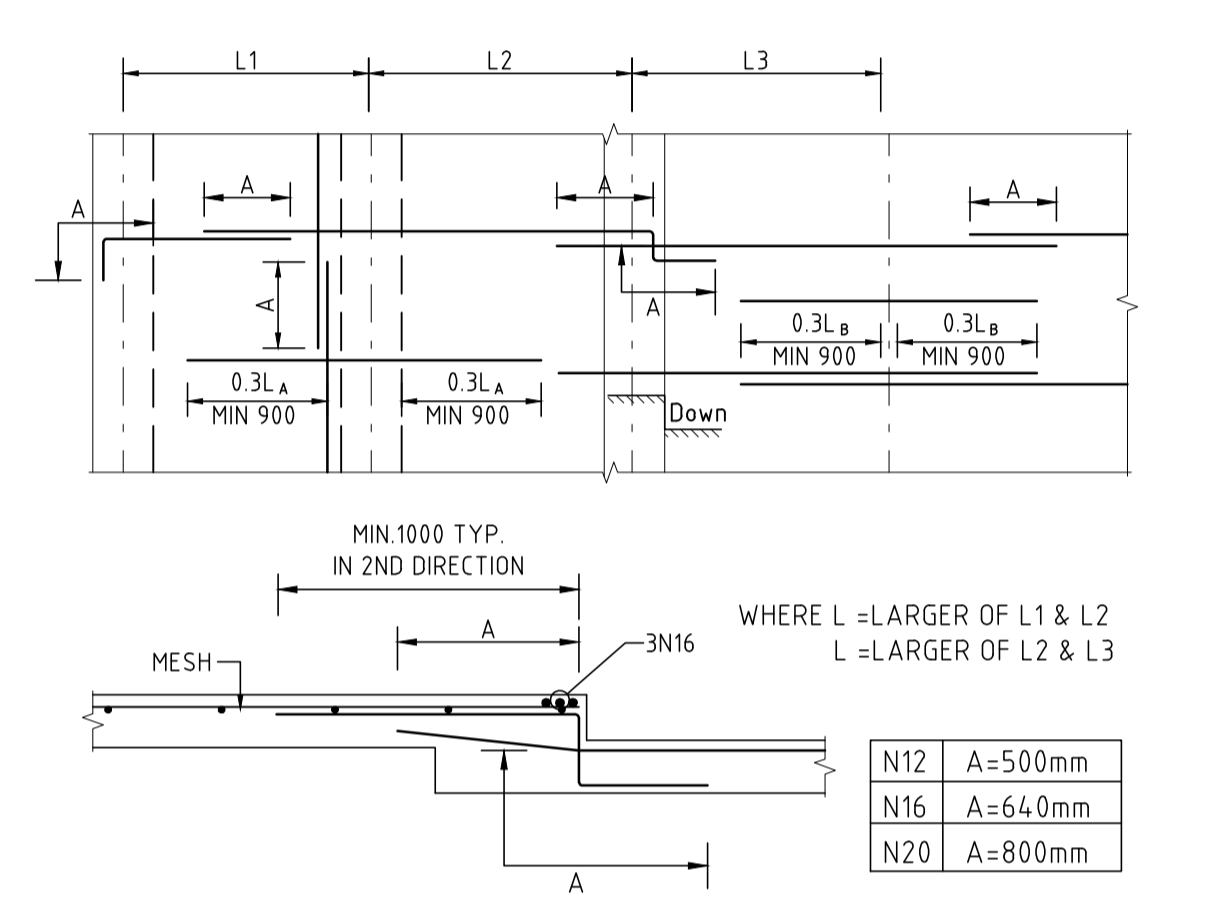
REINFORCEMENT SCHEDULE

MARK	BAR DIA. & SPACING	MARK	BAR DIA. & SPACING
B1	T1 N12@200	B11	T11 N16@250
B2	T2 N12@250	B12	T12 N16@300
B3	T3 N12@300	B13	T13 N16@350
B4	T4 N12@350	B14	T14 N16@400
B5	T5 N12@400	B15	T15 N20@125
B6	T6 N12@500	B16	T16 N20@150
B7	T7 N16@100	B17	T17 N20@175
B8	T8 N16@150	B18	T18 N20@200
B9	T9 N16@175	B19	T19 N20@250
B10	T10 N16@200	B20	T20 N20@300

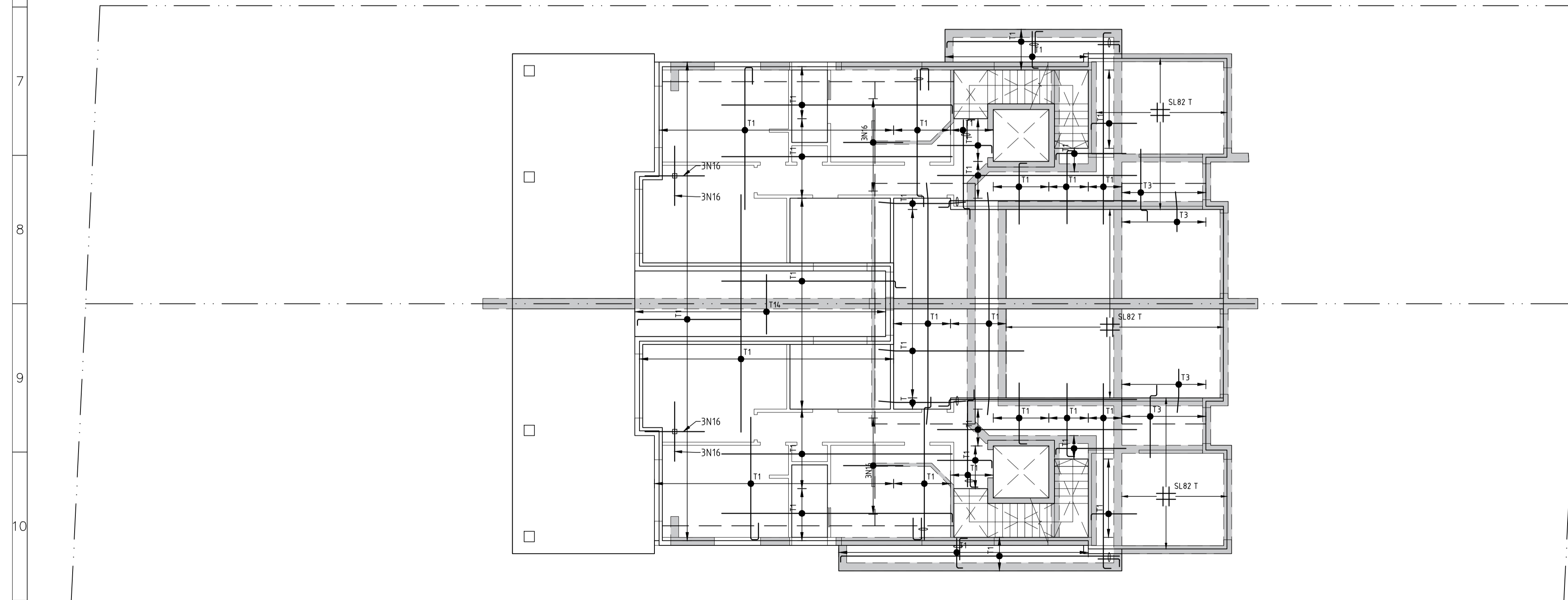
BOTTOM REINFORCEMENT LENGTH



TOP REINFORCEMENT LENGTH

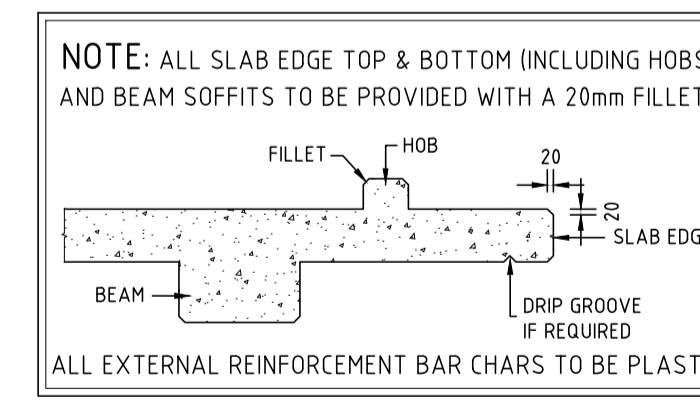
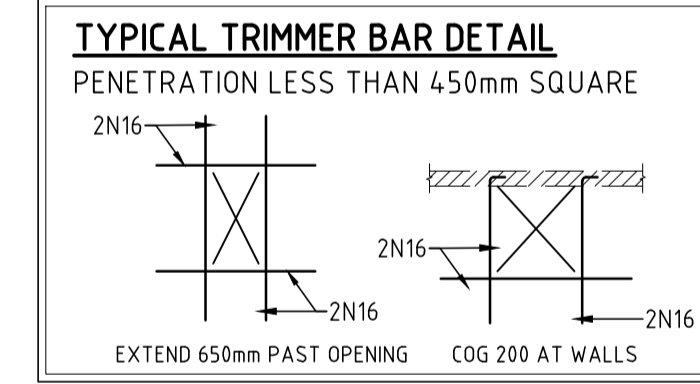


BUTT JOINT (B.J.)
 AROUND ALL WALLS AND COLUMNS



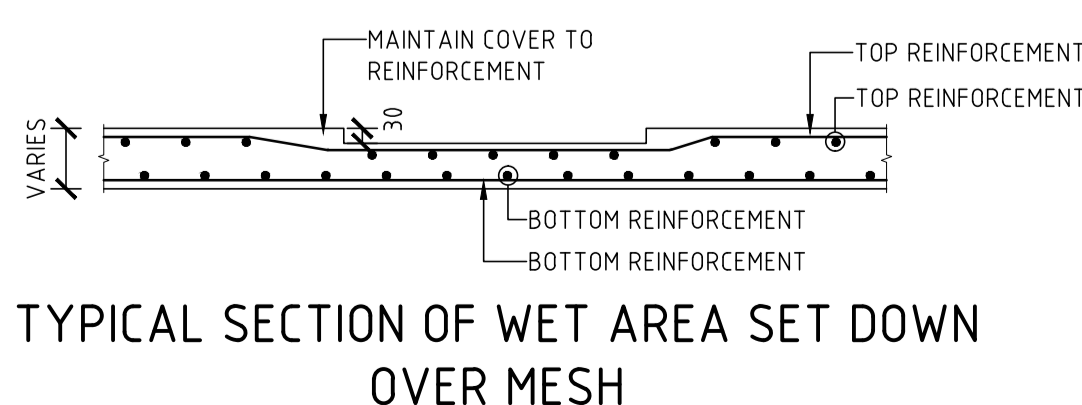
UPPER GROUND FLOOR TOP REINFORCEMENT PLAN AND DETAILS SCALE: 1:100

REFER TO TYPICAL TRIMMER BAR DETAIL
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 3N16 TRIMMER BAR AROUND ALL PENETRATIONS GREATER THAN 450mm, EXTEND 800 PASSED PENETRATION



NOTES

1. CONCRETE GRADES TO BE AS FOLLOWS:
 EXTERNAL: N32
 INTERNAL: N32
2. CONCRETE COVER TO REINFORCEMENT TO BE AS FOLLOWS:
 INTERNAL: 20mm
 EXTERNAL: 40mm
3. FOR STAIR STARTER BARS SEE STAIR DWG.
4. BLOCKWORK REINFORCEMENT IS NOT SHOWN FOR CLARITY.



TYPICAL SECTION OF WET AREA SET DOWN OVER MESH

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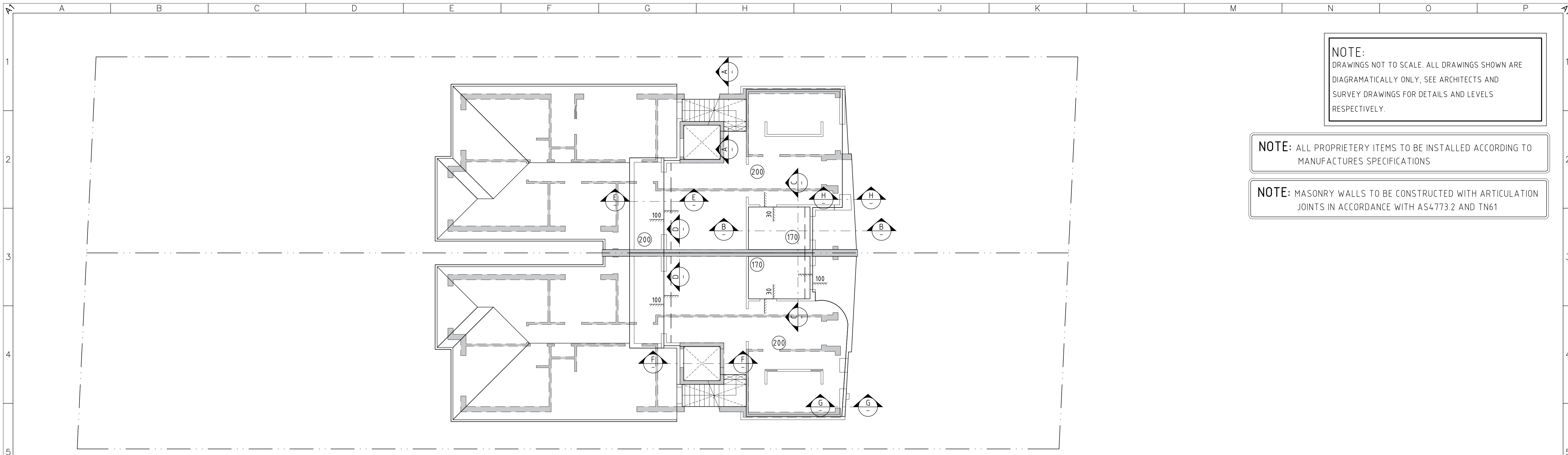
LMW DESIGN GROUP P/L
 Building Consultants and Structural Engineers
 15 Woodlands Ave. Phone: (02) 9533 5778
 Lugarno NSW 2210 Fax: (02) 9153 7790
 Mobile: 0418 285 592
 Email: lmwdesigngroup@gmail.com

JOB NAME
PROPOSED DUAL OCCUPANCY
AT No. 105 LETITIA STREET, OATLEY
 CLIENT, ARCHITECT
INFINITY EIGHT HOLDING PTY LTD
 DRAWING TITLE
GROUND FLOOR SLAB REINFORCEMENT PLANS AND DETAILS

No. IN SET	JOB No	2150.23	DRG. No	REV
	DESIGNED	DRAWN	DATE	No.
N.T.S.	S.W.W.	A.D.	07 JULY 2023	

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 B.E., M.Eng.Sc.
 M.J.E. Aust., C.P. Eng, NPER-3
 REG. No. 417092
 CIVIL AND STRUCTURAL

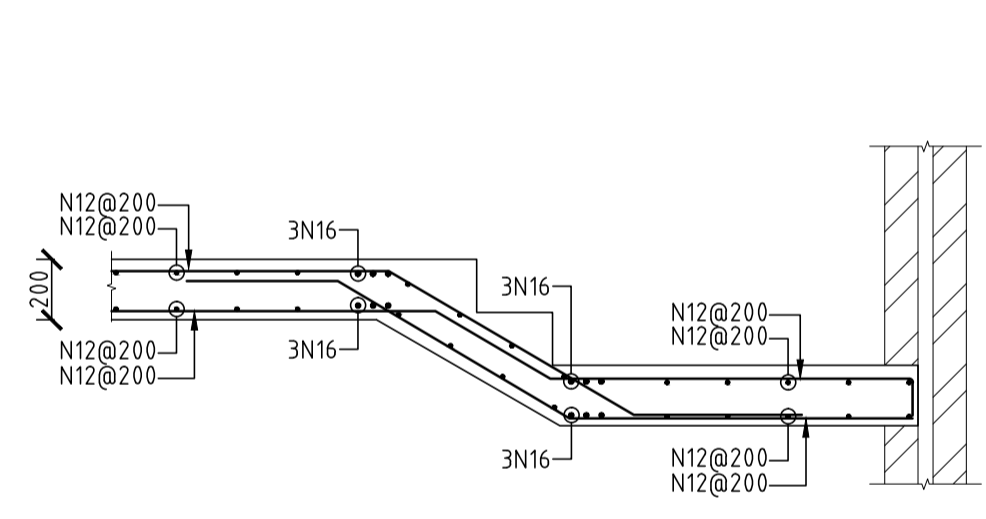


NOTE:
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RESPECTIVELY.

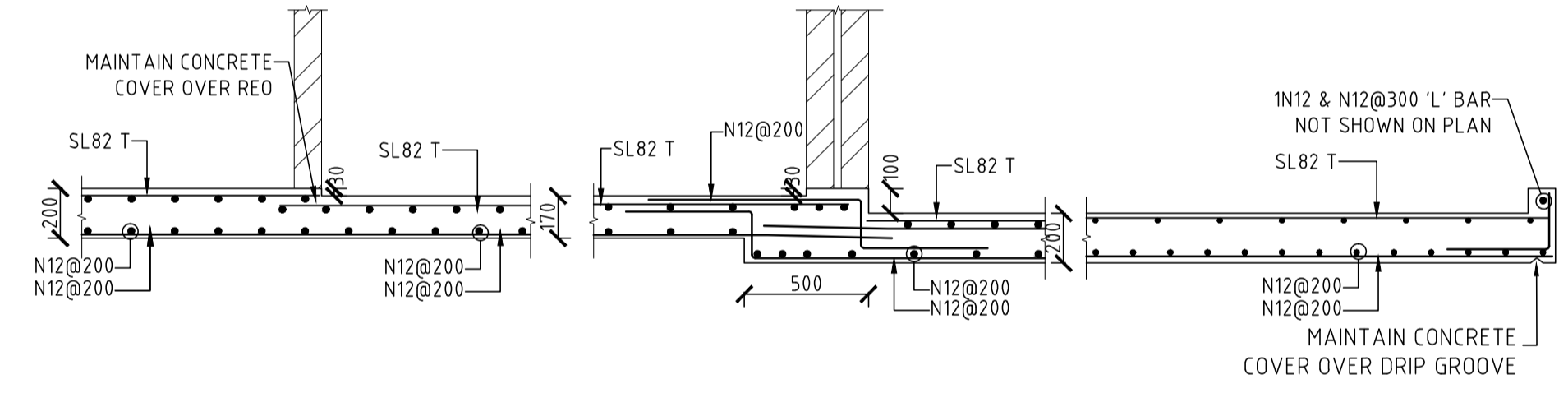
NOTE: ALL PROPRIETARY ITEMS TO BE INSTALLED ACCORDING TO
MANUFACTURES SPECIFICATIONS

NOTE: MASONRY WALLS TO BE CONSTRUCTED WITH ARTICULATION
JOINTS IN ACCORDANCE WITH AS4773.2 AND TN61

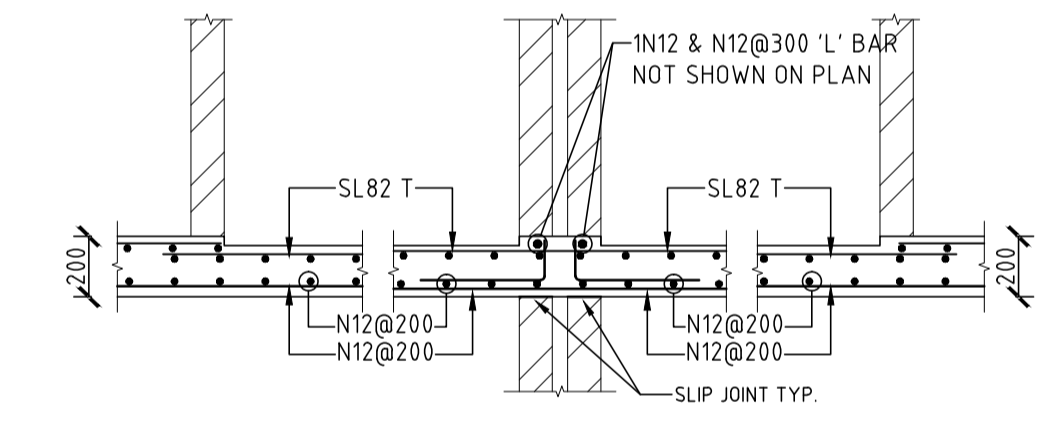
FIRST FLOOR SLAB PLAN SCALE: 1:100
THICKNESS OF SLAB TO BE 200mm UNO.
WATERPROOFING TO BUILDERS SPECS
STEP DOWNS DIMENSIONS TO ARCH DETAILS



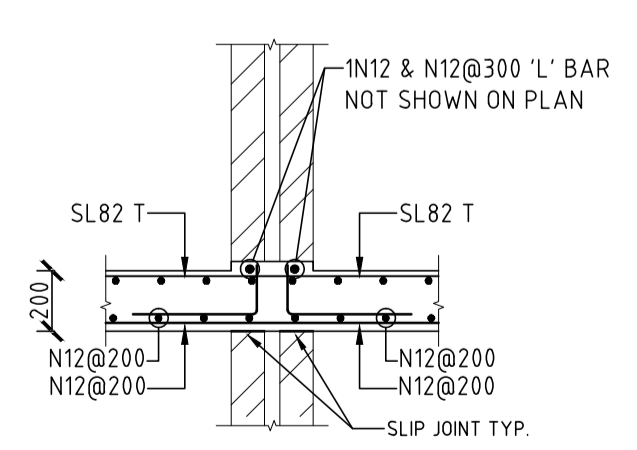
SECTION A
SCALE: -



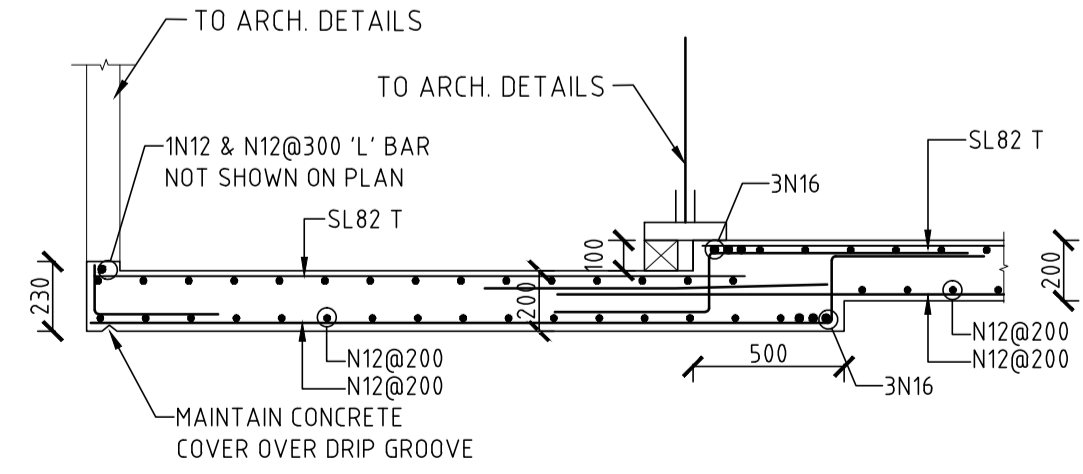
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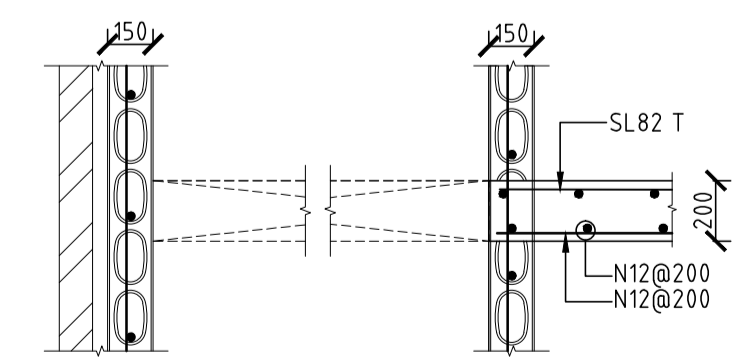
SECTION C
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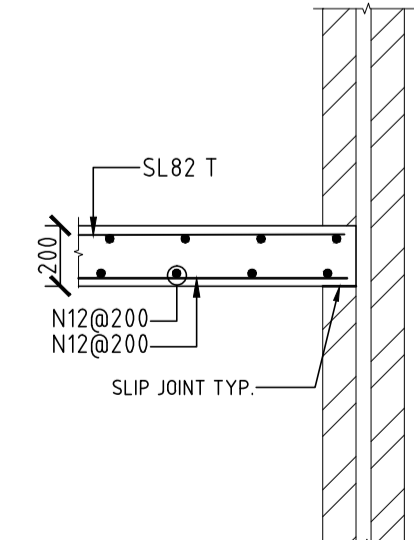
SECTION D
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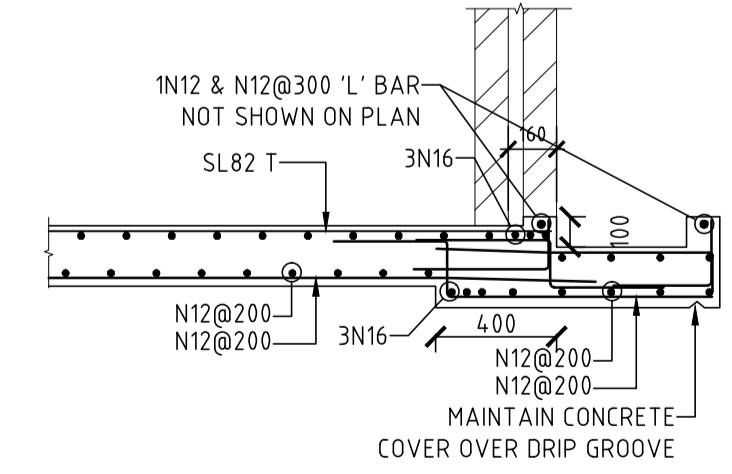
SECTION E
SCALE: -



SECTION F
SCALE: -



SECTION G
SCALE: -



SECTION H
SCALE: -

REV.	DATE	BY	CHECKED	AMENDMENTS
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JOB NAME
**PROPOSED DUAL OCCUPANCY
AT No. 105 LETITIA STREET, OATLEY**

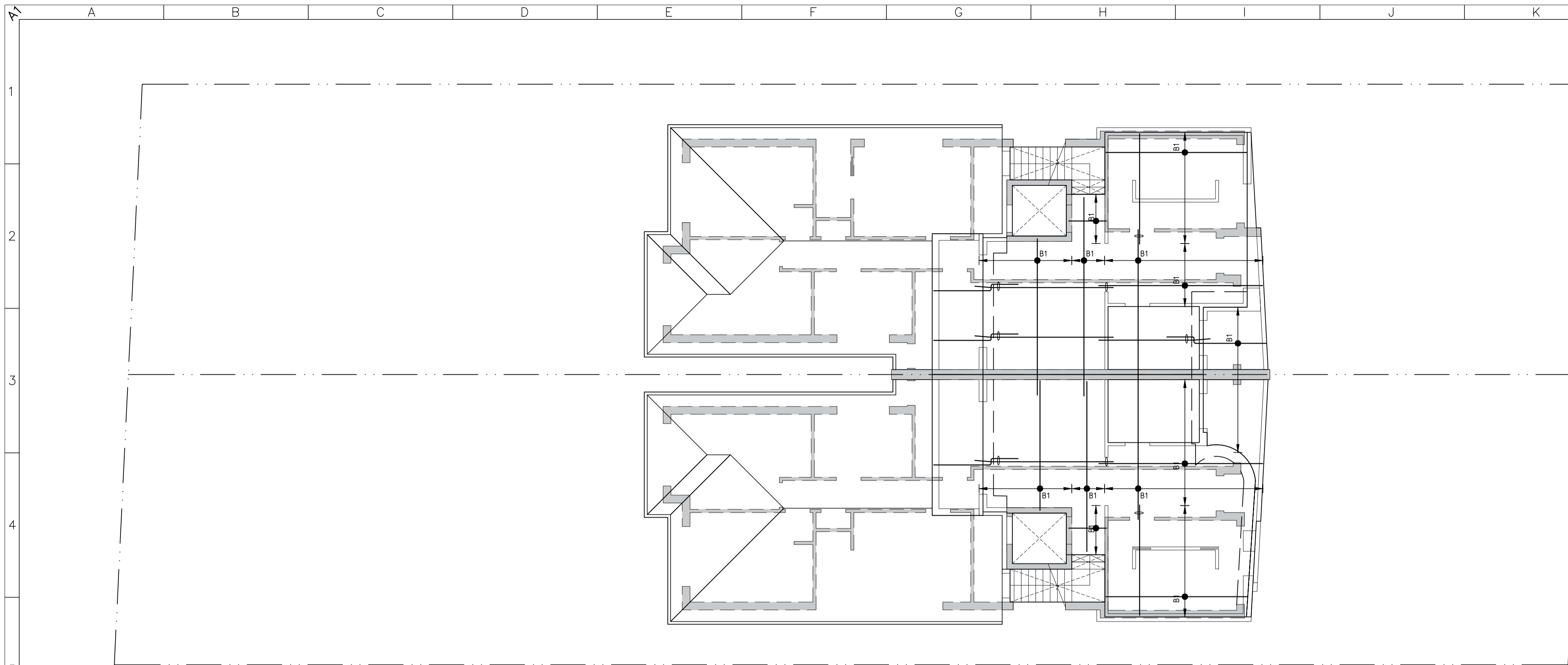
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INFINITY EIGHT HOLDING PTY LTD

DRAWING TITLE
FIRST FLOOR SLAB PLANS AND DETAILS

No. IN SET	JOB NO	2150.23	DRG. NO	REV
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STEVEN WATERS
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REG. No. 417092
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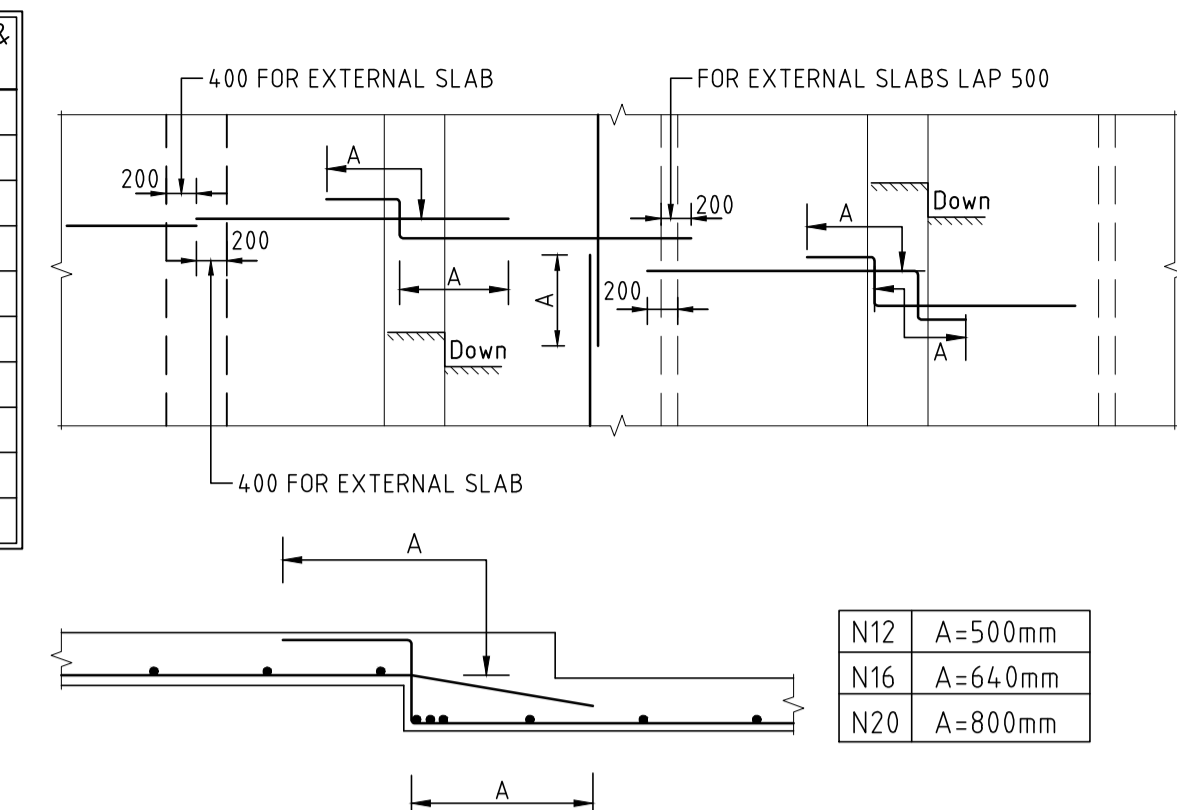
FIRST FLOOR BOTTOM REINFORCEMENT PLAN SCALE: 1:100

REFER TO TYPICAL TRIMMER BAR DETAIL
 3N16 TRIMMER BARS AT ALL SLAB EDGES
 2N16 TRIMMER BAR AROUND ALL PENETRATIONS LESS THAN 450mm PER TYPICAL DETAIL
 3N16 TRIMMER BAR AROUND ALL PENETRATIONS GREATER THAN 450mm, EXTEND 800 PASSED PENETRATION

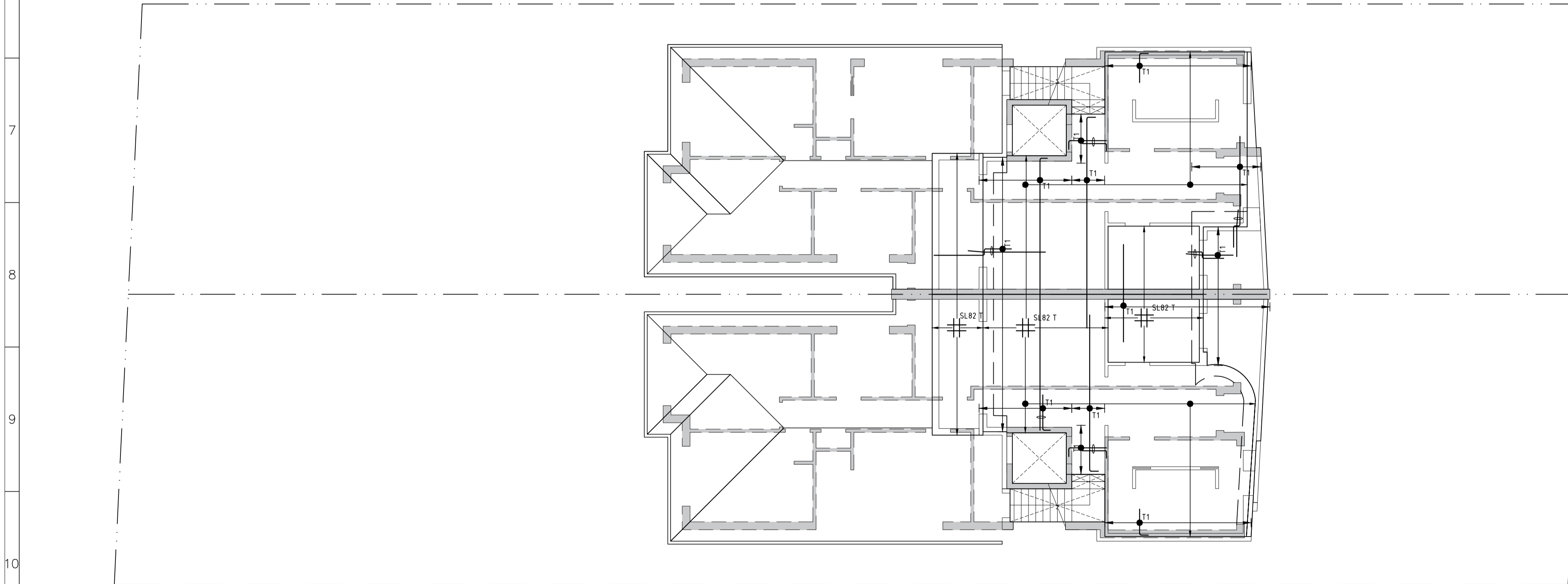
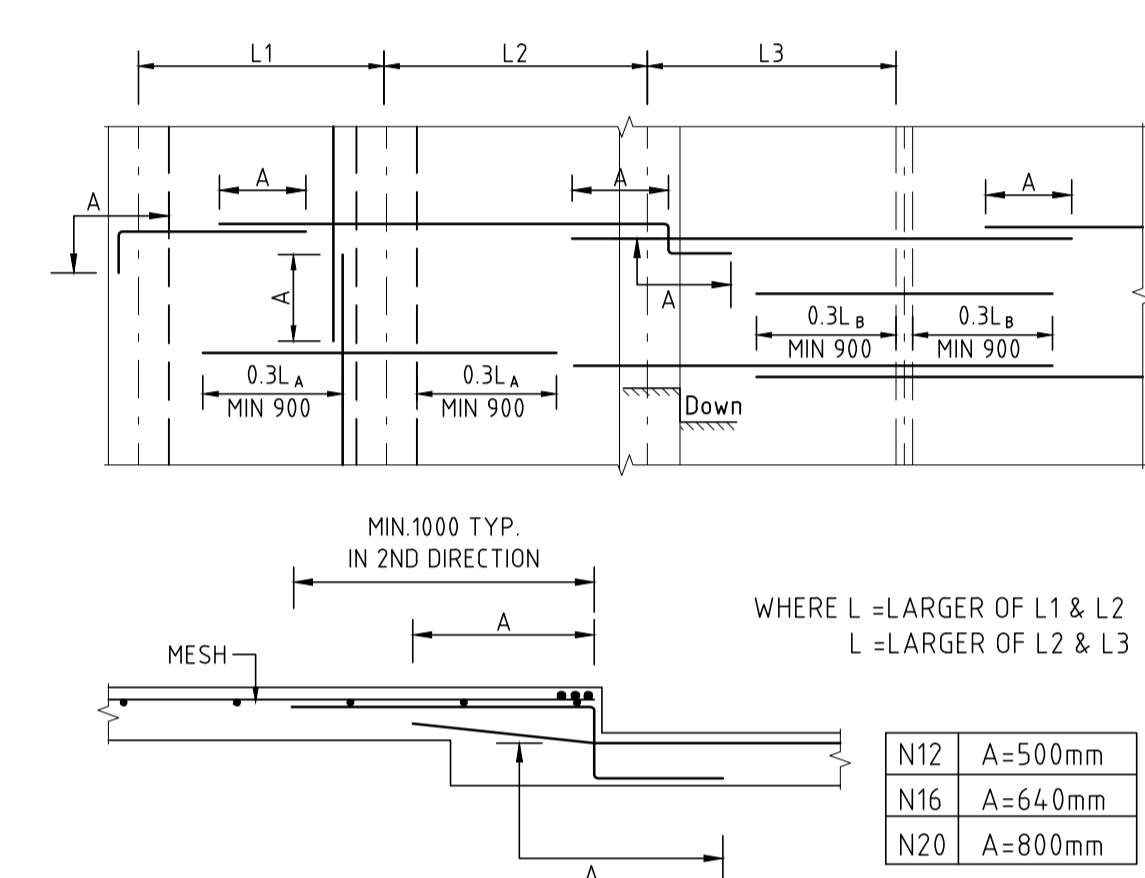
REINFORCEMENT SCHEDULE

MARK	BAR DIA. & SPACING	MARK	BAR DIA. & SPACING		
B1	T1	N12@200	B11	T11	N16@250
B2	T2	N12@250	B12	T12	N16@300
B3	T3	N12@300	B13	T13	N16@350
B4	T4	N12@350	B14	T14	N16@400
B5	T5	N12@400	B15	T15	N20@125
B6	T6	N12@500	B16	T16	N20@150
B7	T7	N16@100	B17	T17	N20@175
B8	T8	N16@150	B18	T18	N20@200
B9	T9	N16@175	B19	T19	N20@250
B10	T10	N16@200	B20	T20	N20@300

BOTTOM REINFORCEMENT LENGTH

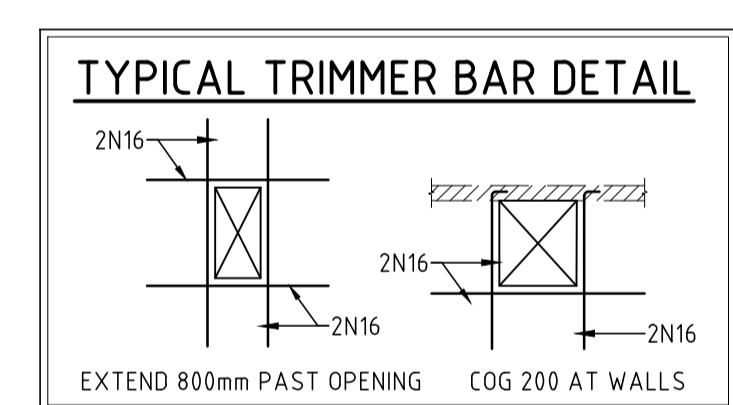
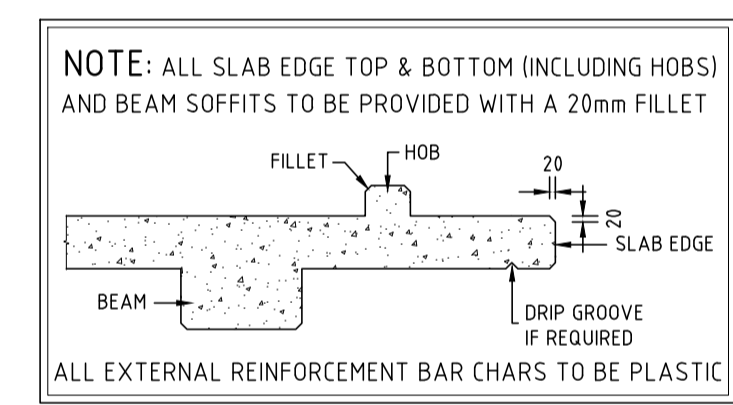


TOP REINFORCEMENT LENGTH



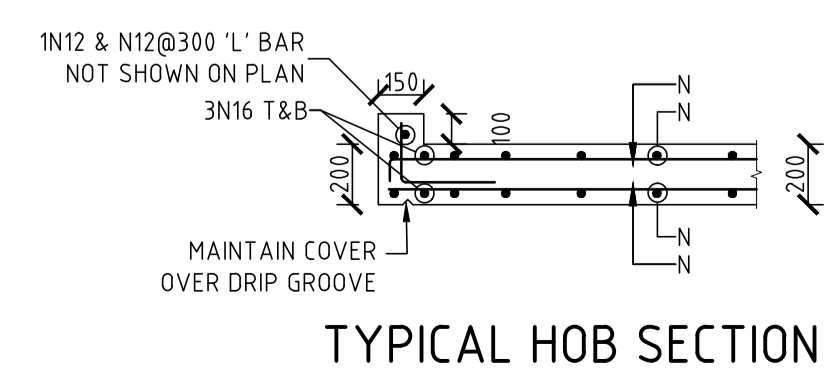
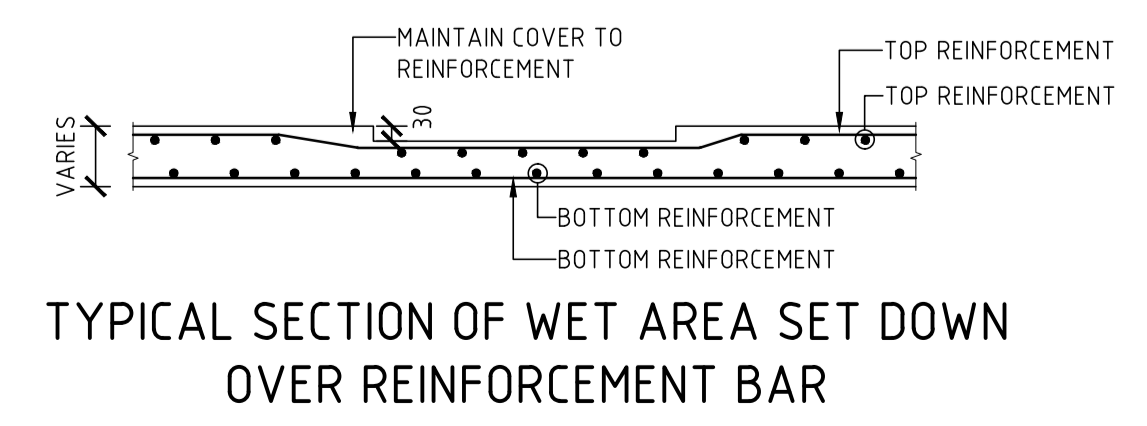
FIRST FLOOR TOP REINFORCEMENT PLAN SCALE: 1:100

REFER TO TYPICAL TRIMMER BAR DETAIL
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NOTES

- CONCRETE GRADES TO BE AS FOLLOWS:
EXTERNAL: N32
INTERNAL: N32
- CONCRETE COVER TO REINFORCEMENT TO BE AS FOLLOWS:
INTERNAL: 20mm
EXTERNAL: 40mm
- FOR STAIR STARTER BARS SEE STAIR DWG.
- BLOCKWORK REINFORCEMENT IS NOT SHOWN FOR CLARITY



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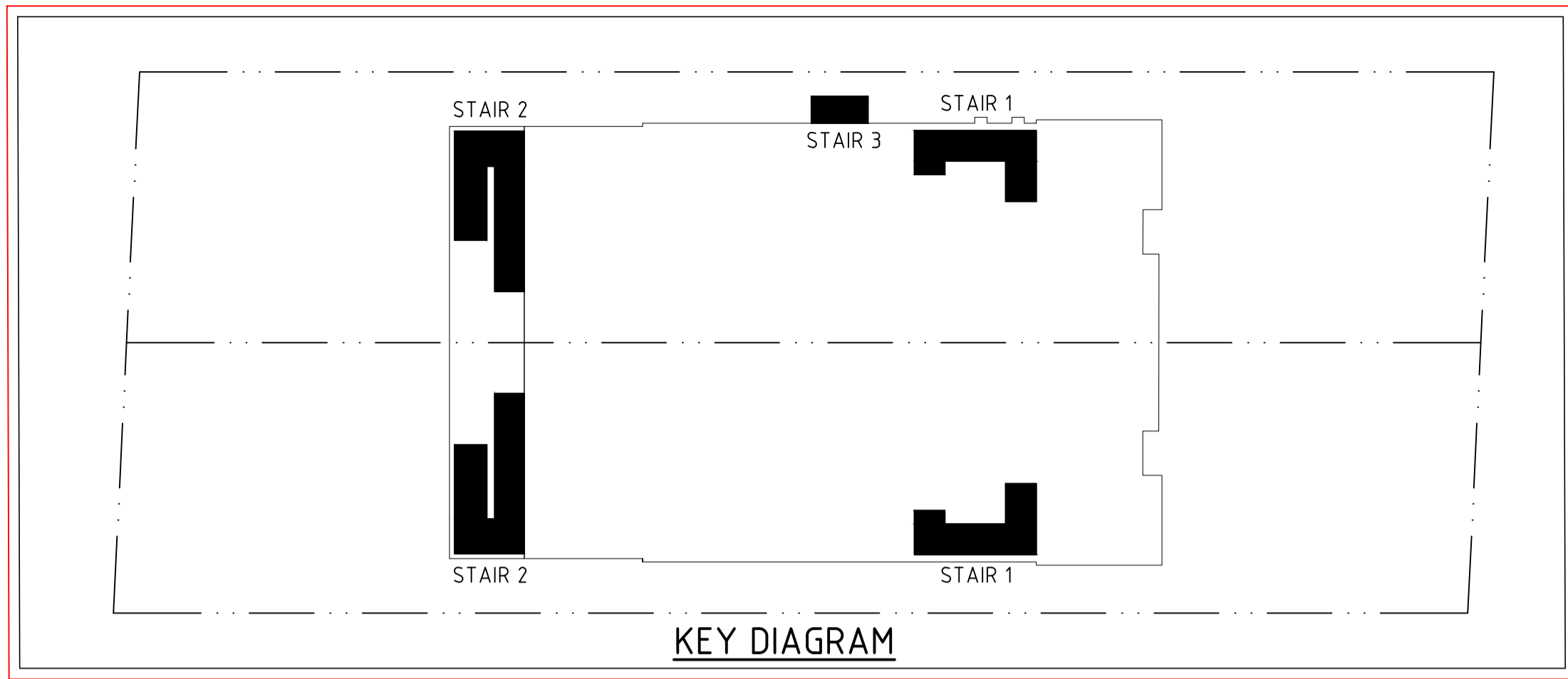
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DRAWING TITLE
FIRST FLOOR SLAB REINFORCEMENT PLANS AND DETAILS

No. IN SET	JOB No	2150.23	DRG. No	REV
			S401	A
SCALE	DESIGNED	DRAWN	DATE	No.
N.T.S.	S.W.W.	H.H.	07 JULY 2023	

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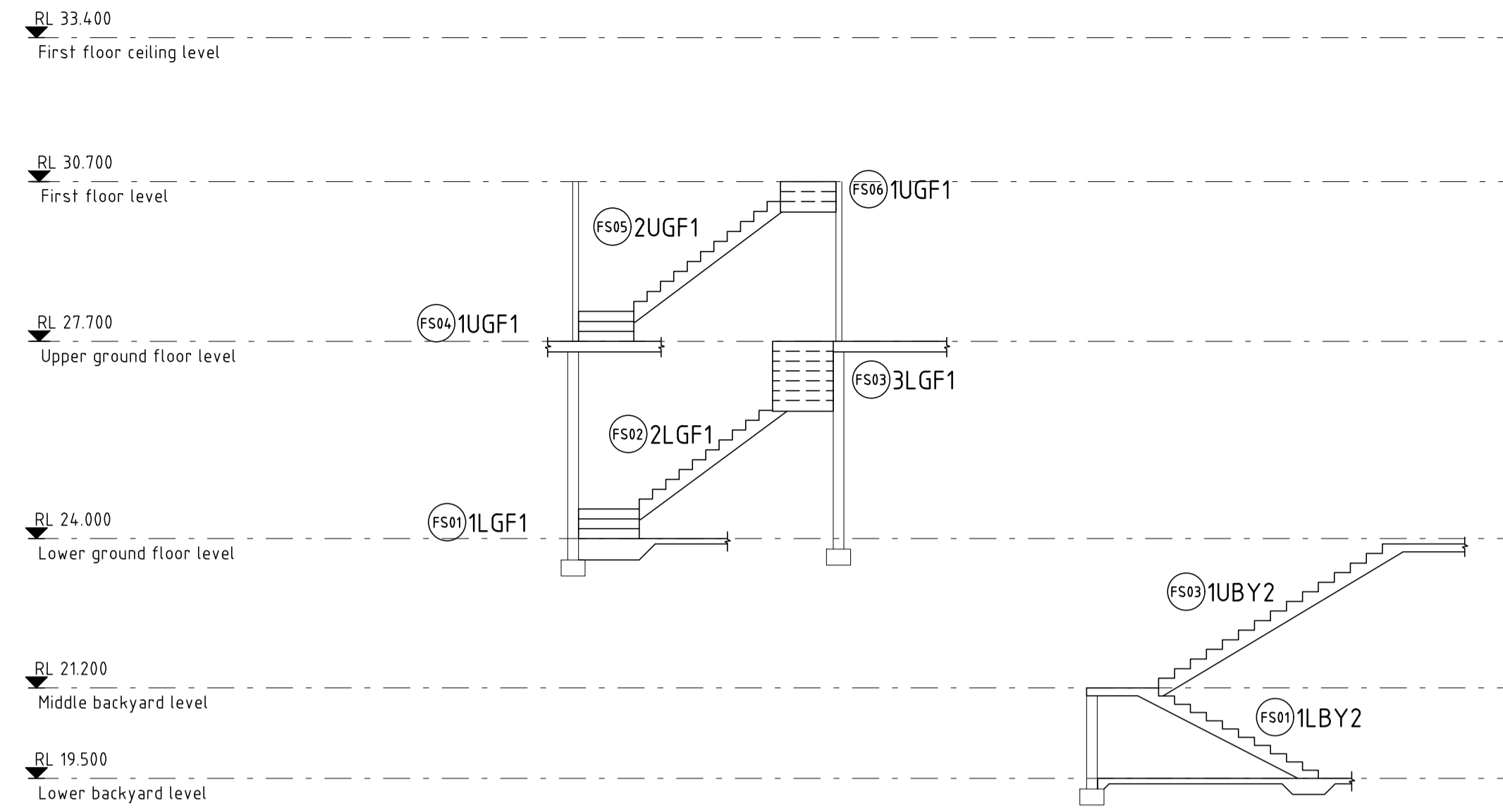
STEVEN WATERS
 B.E., M.Eng.Sc.
 M.I.E. Aust., C.P. Eng, NPER-3
 REG. No. 417092
 CIVIL AND STRUCTURAL



KEY DIAGRAM

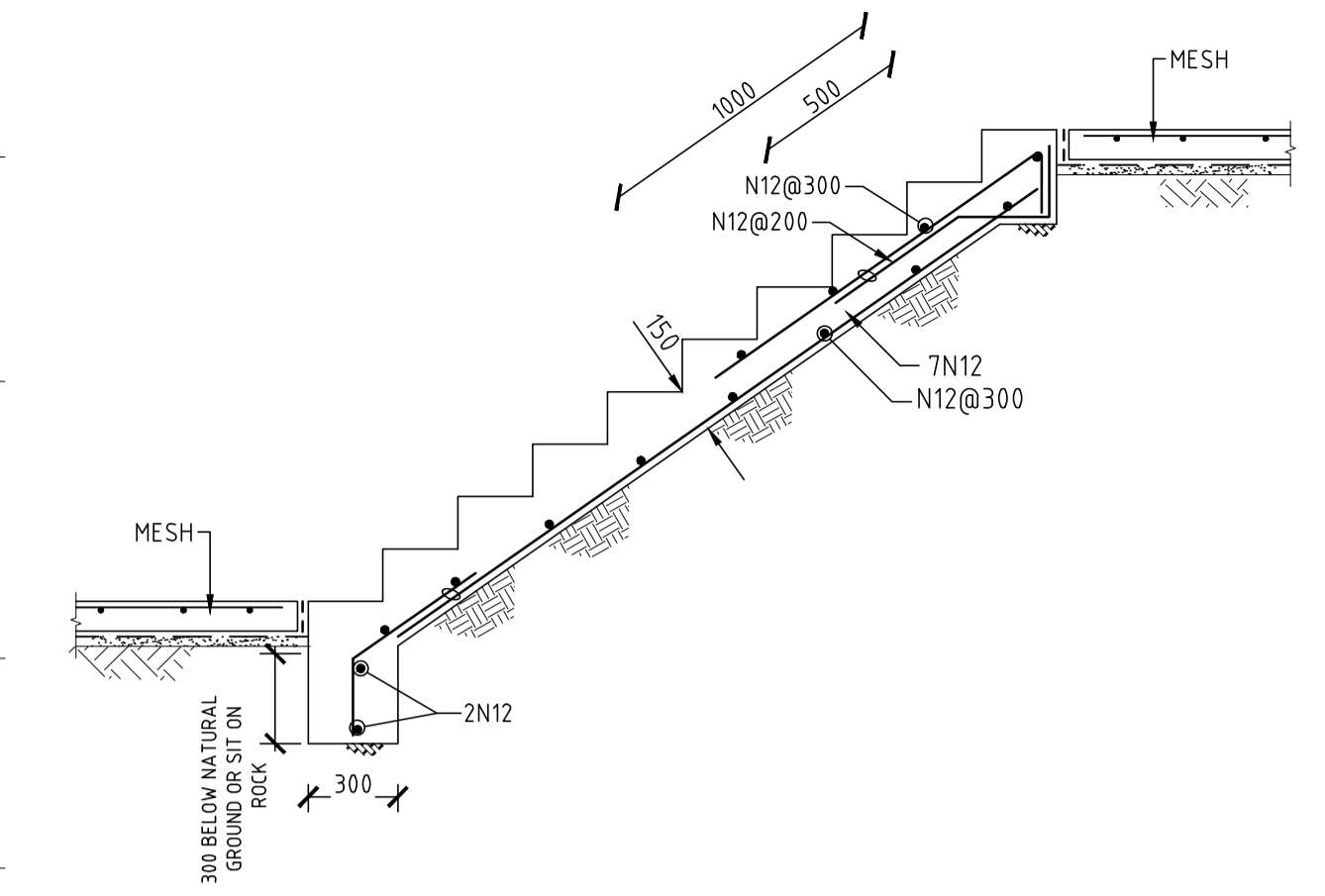
STAIR LAYOUT PLAN AND DETAILS NTS

NOTE: THE NUMBER OF RISERS/GOINGS OF PER FLIGHT ARE SHOWN DIAGRAMMATICALLY ONLY AND ARE TO BE TAKEN FROM ARCHITECTURAL DRAWINGS

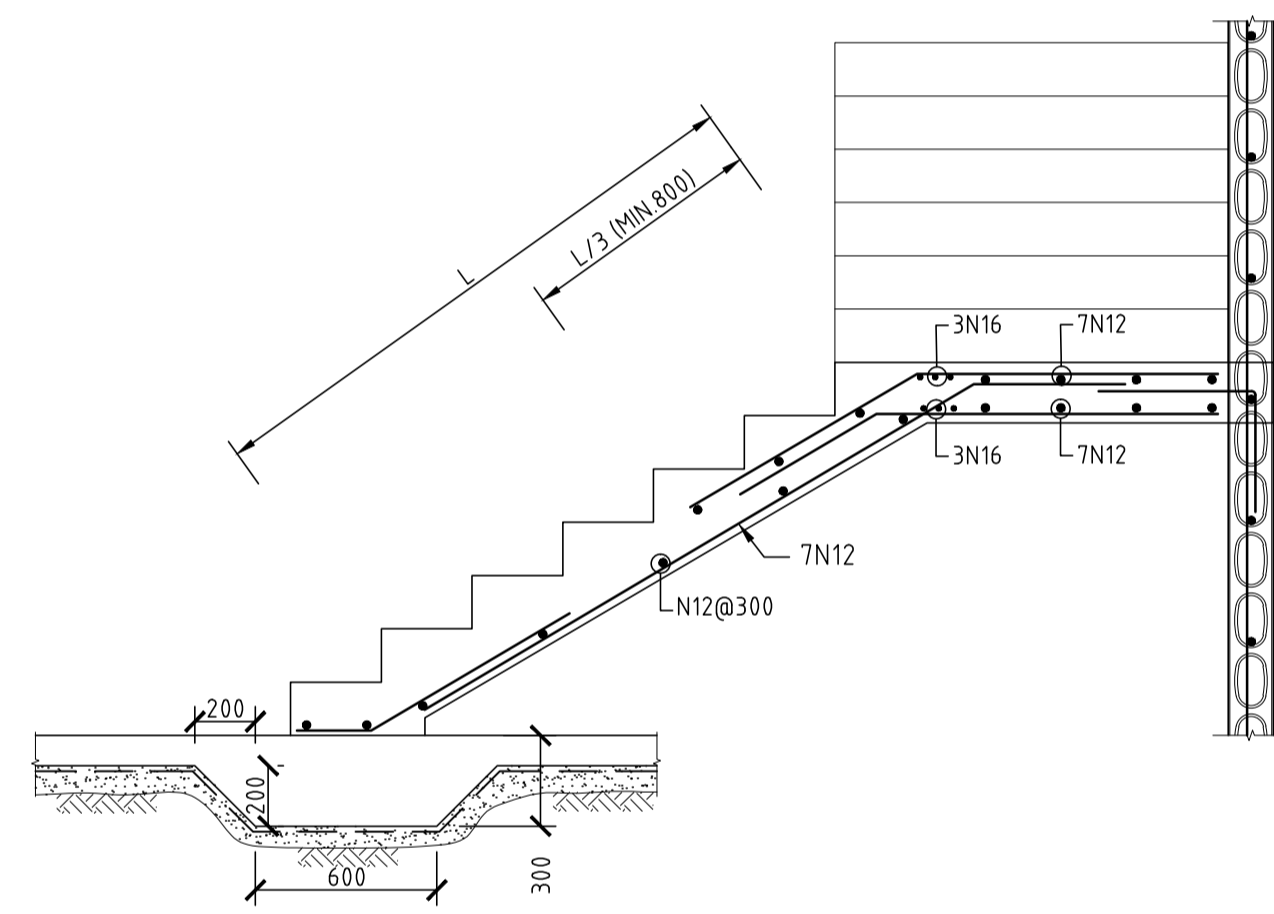


STAIR 1

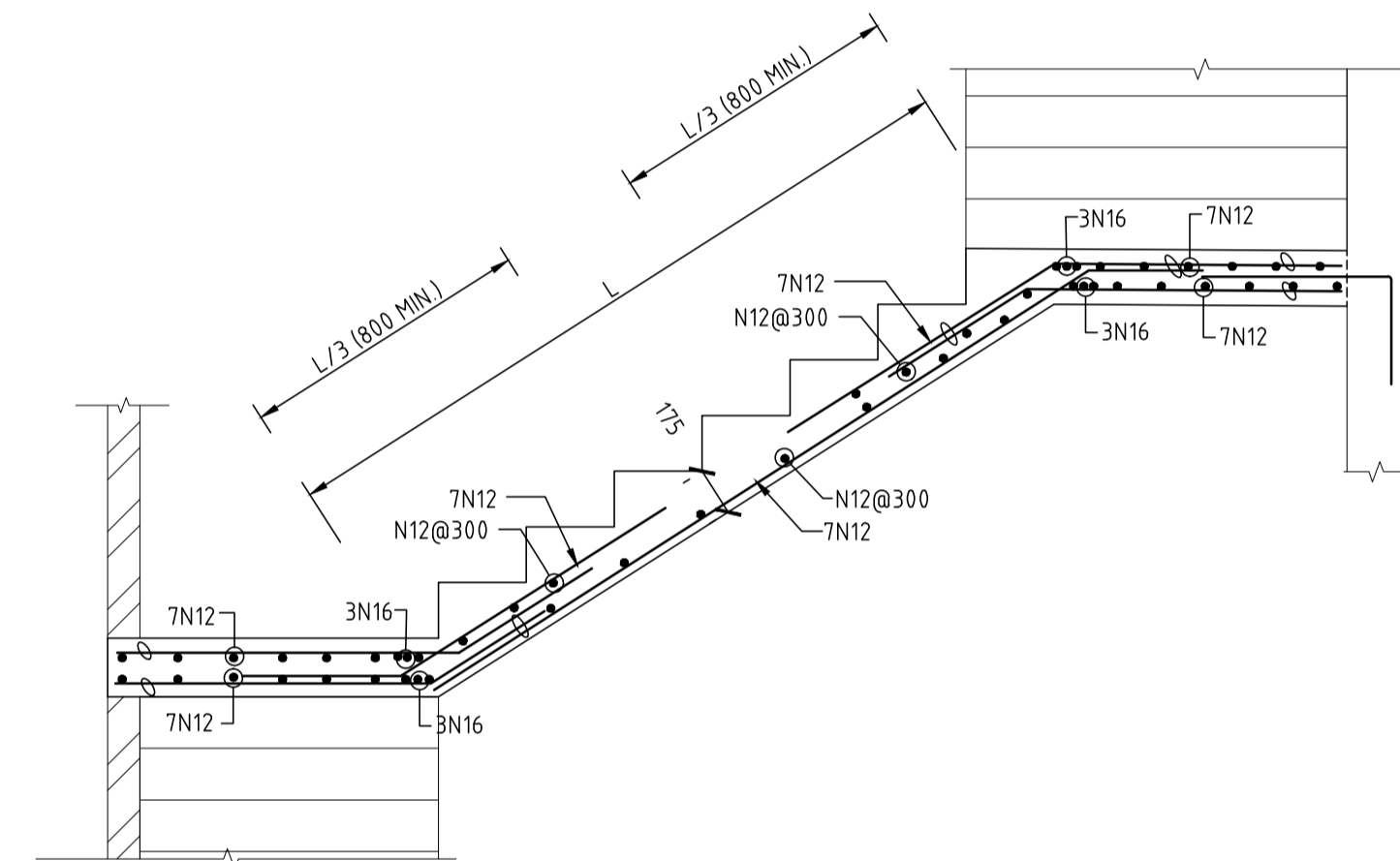
STAIR 2



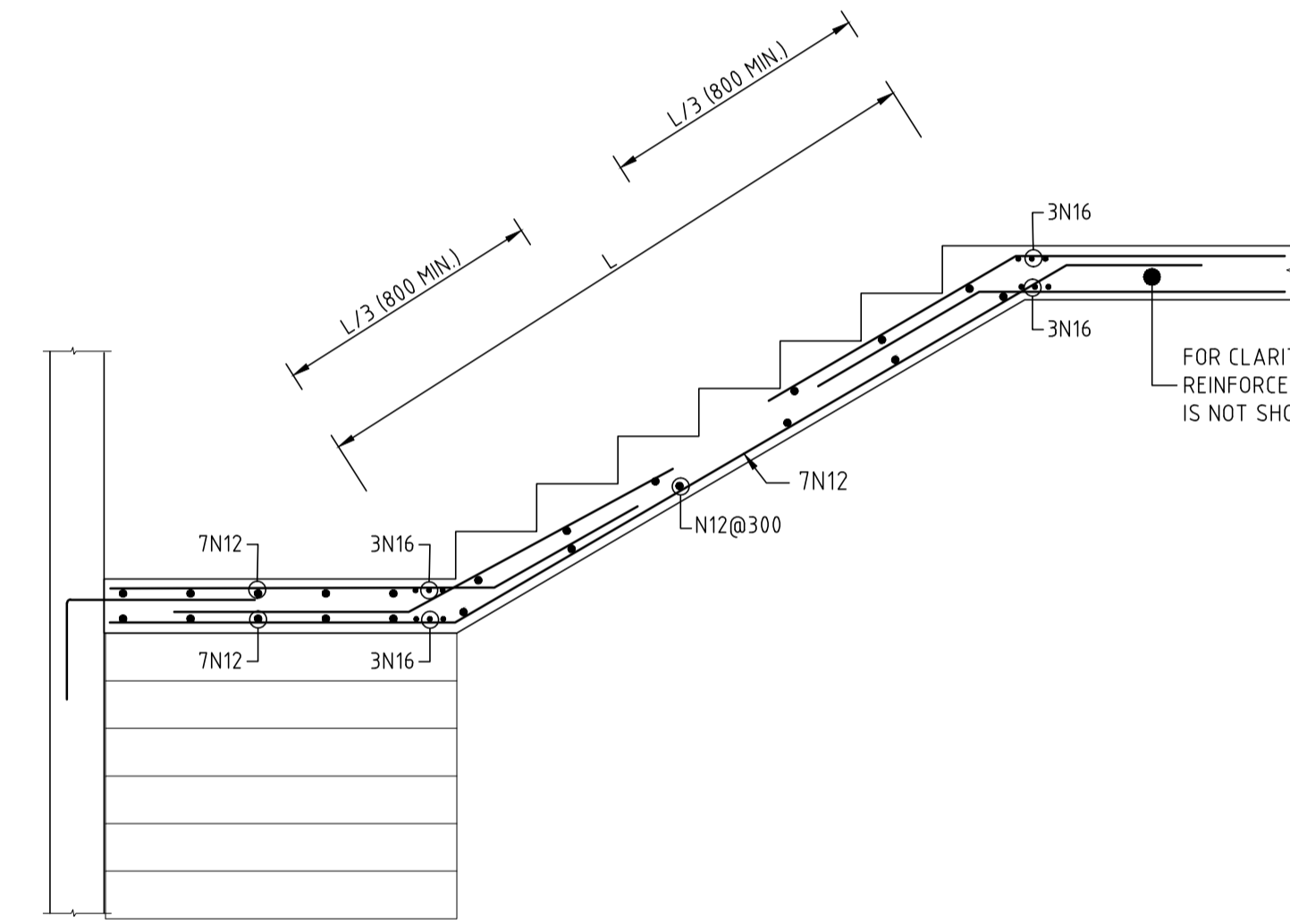
TYPICAL STAIR ON GROUND DETAIL
STAIR 3



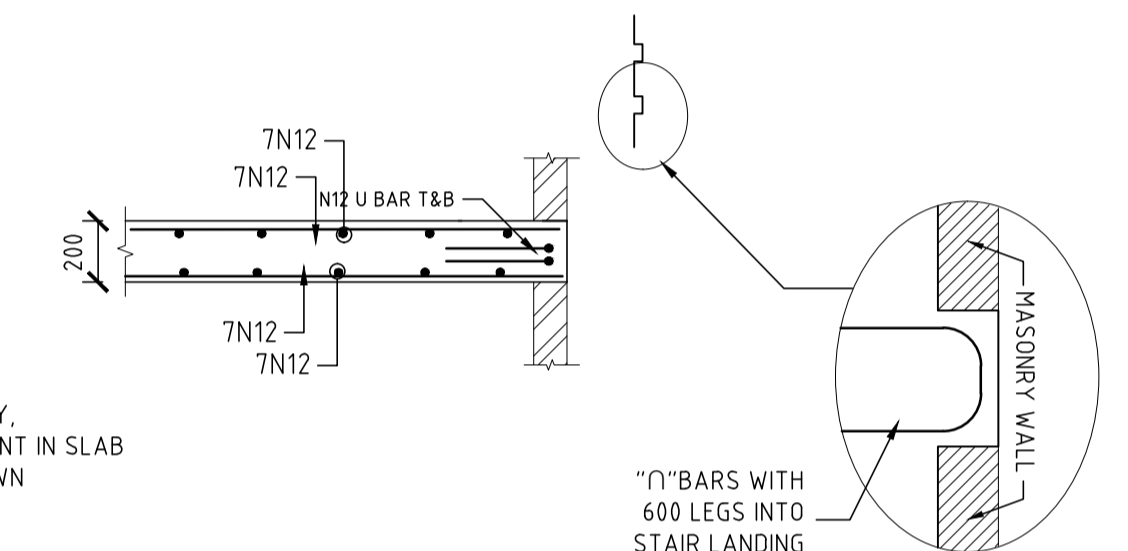
FS01 STAIR DETAIL



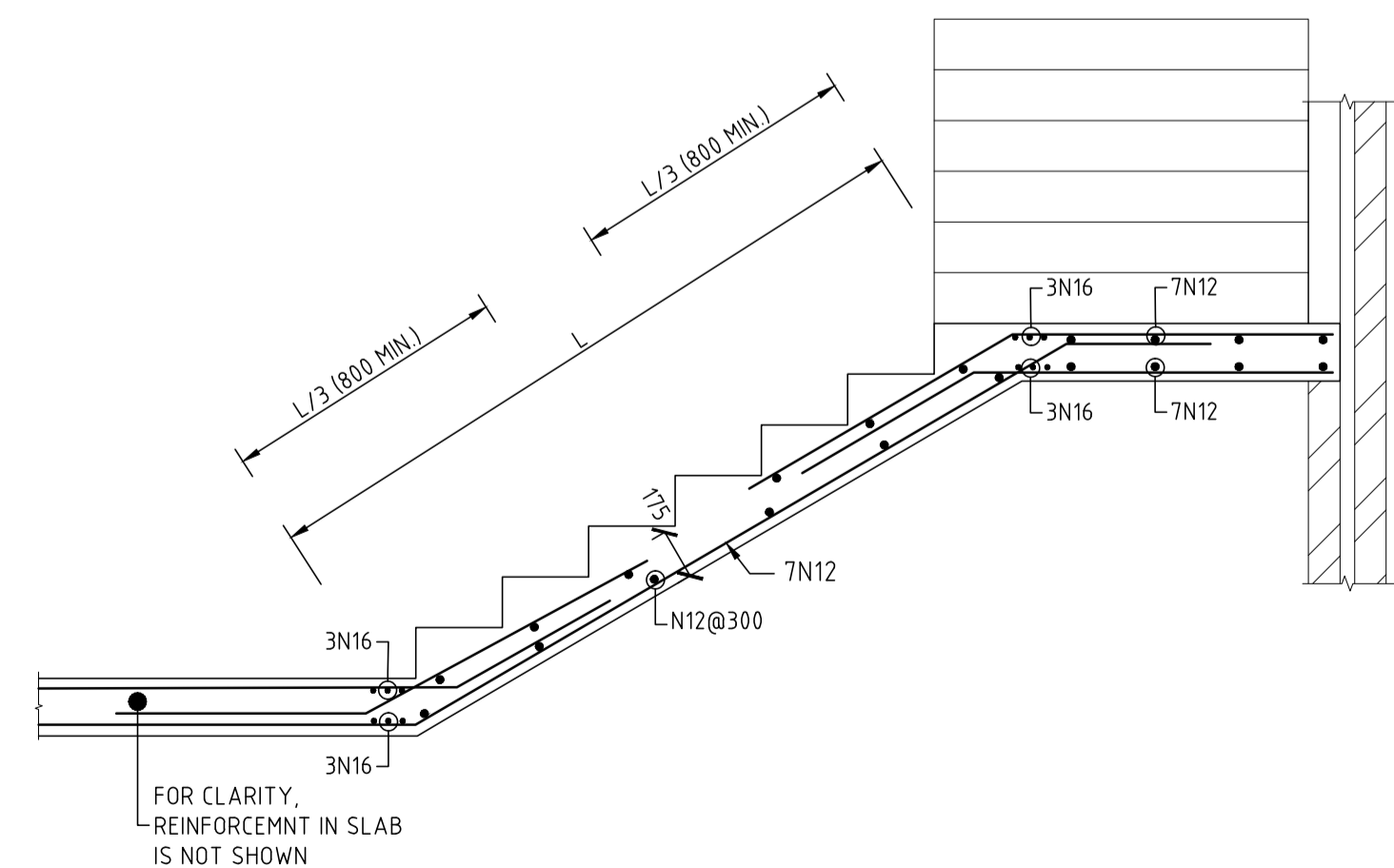
FS02 STAIR DETAIL



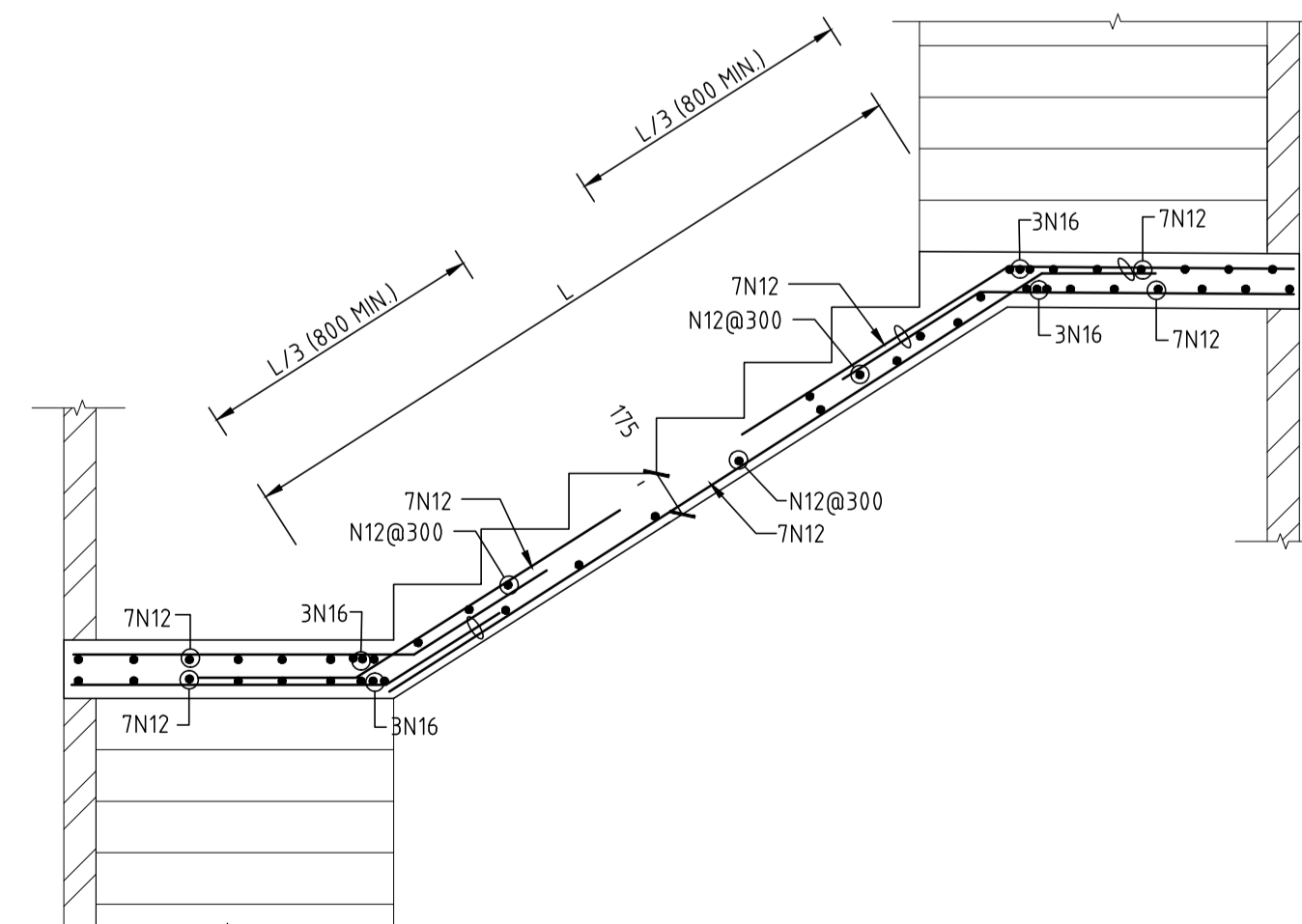
FS03 STAIR DETAIL



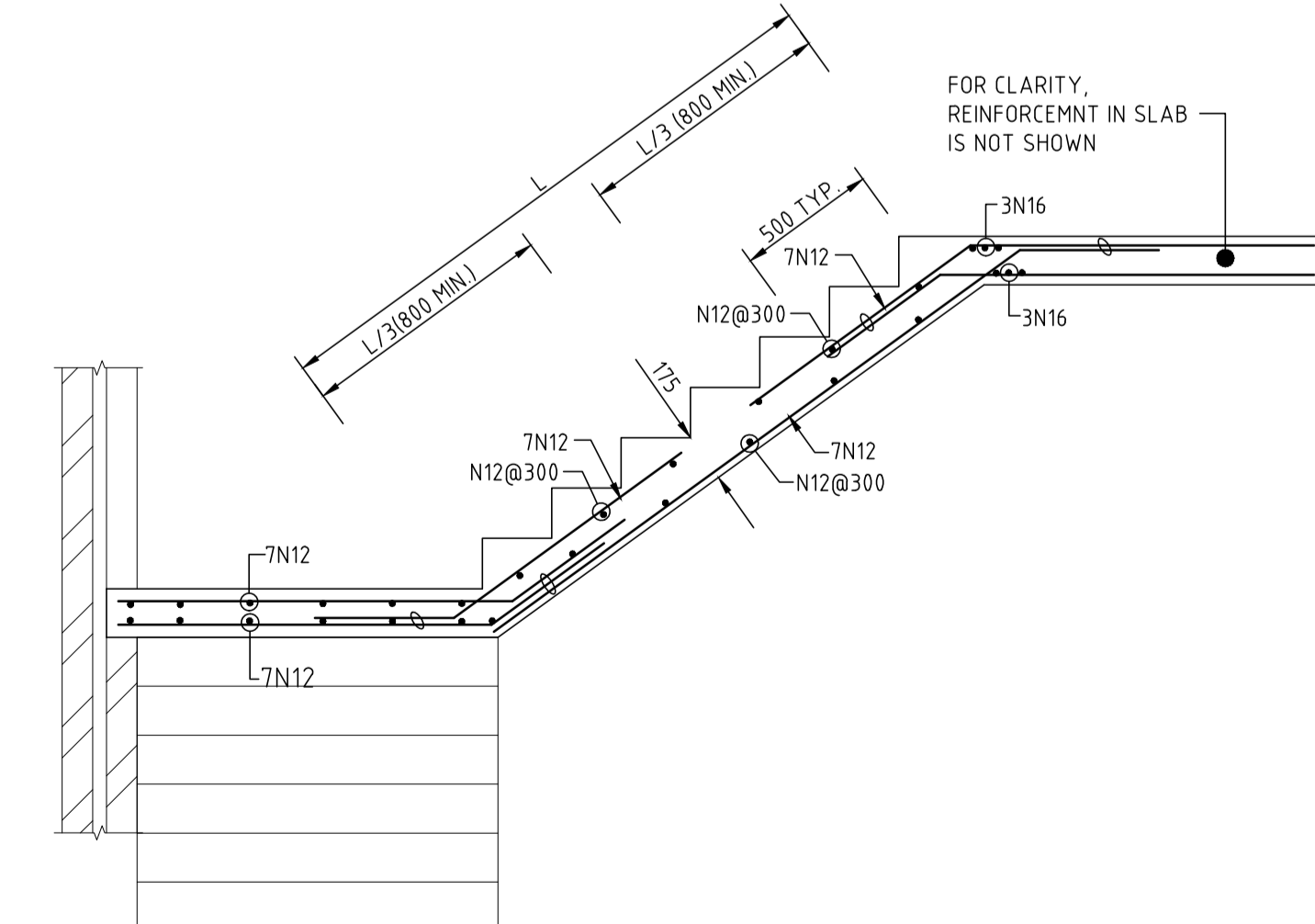
SHEAR KEYS
DETAIL 1
SCALE: -



FS04 STAIR DETAIL



FS05 STAIR DETAIL



FS06 STAIR DETAIL

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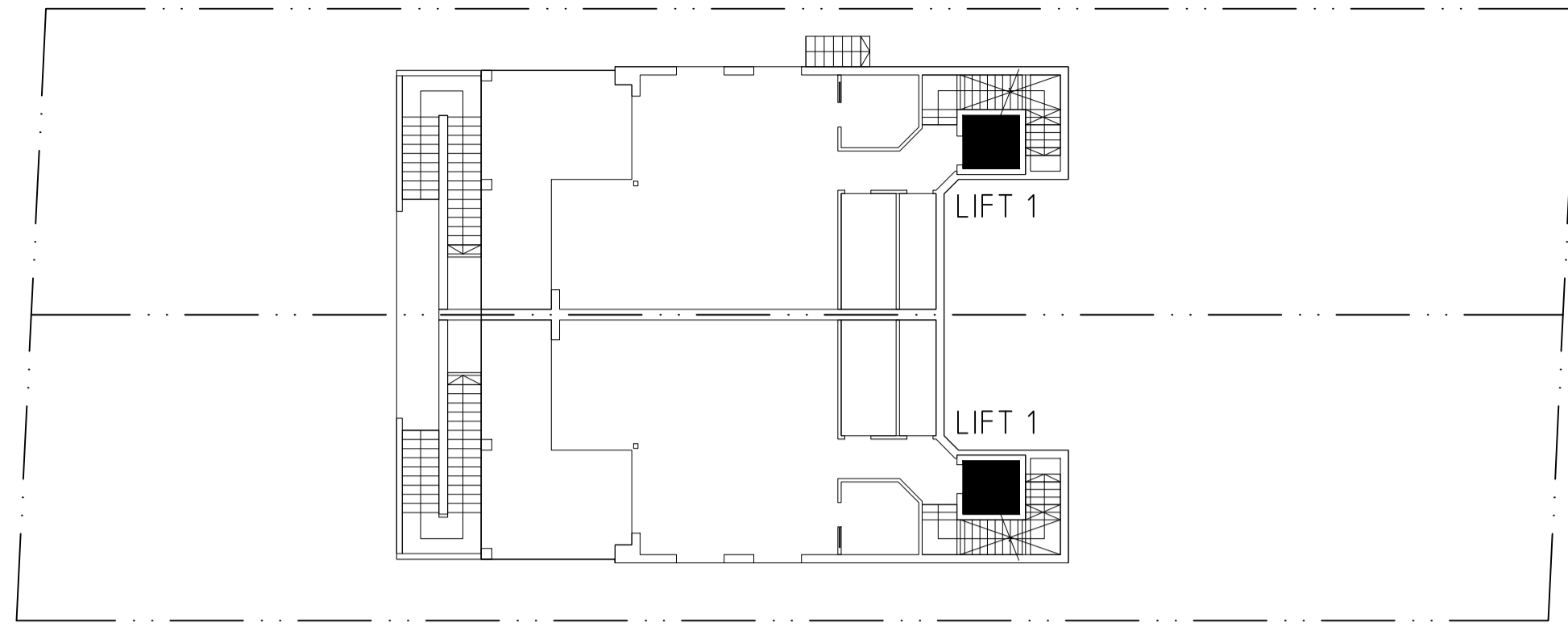
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STAIR PLANS AND DETAILS

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SCALE	DESIGNED	DRAWN	DATE	No.
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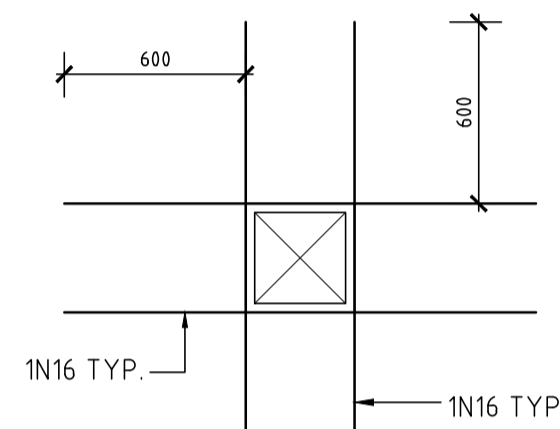
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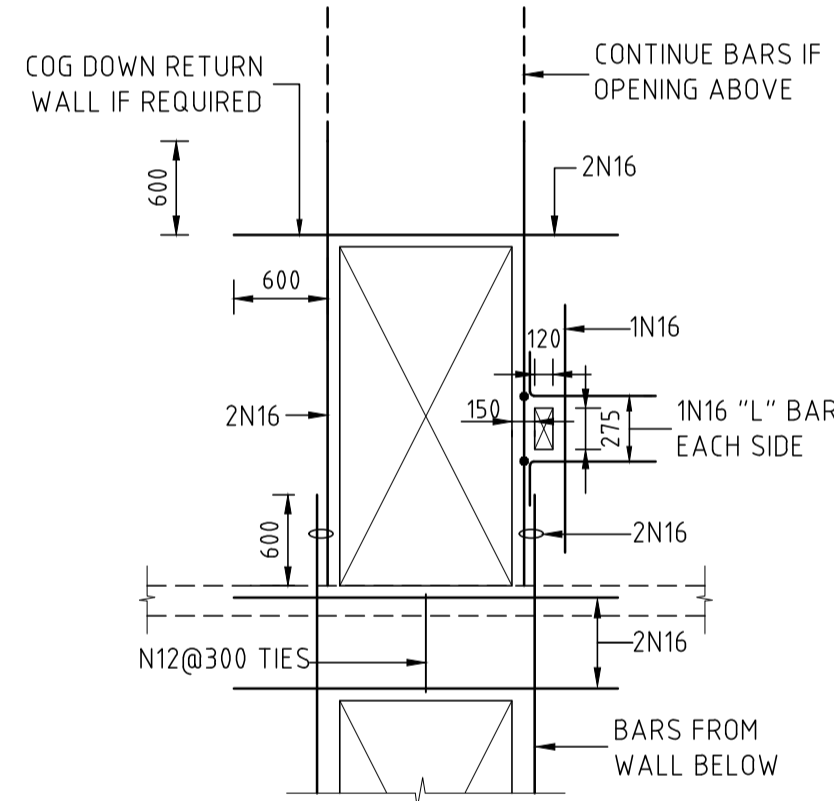
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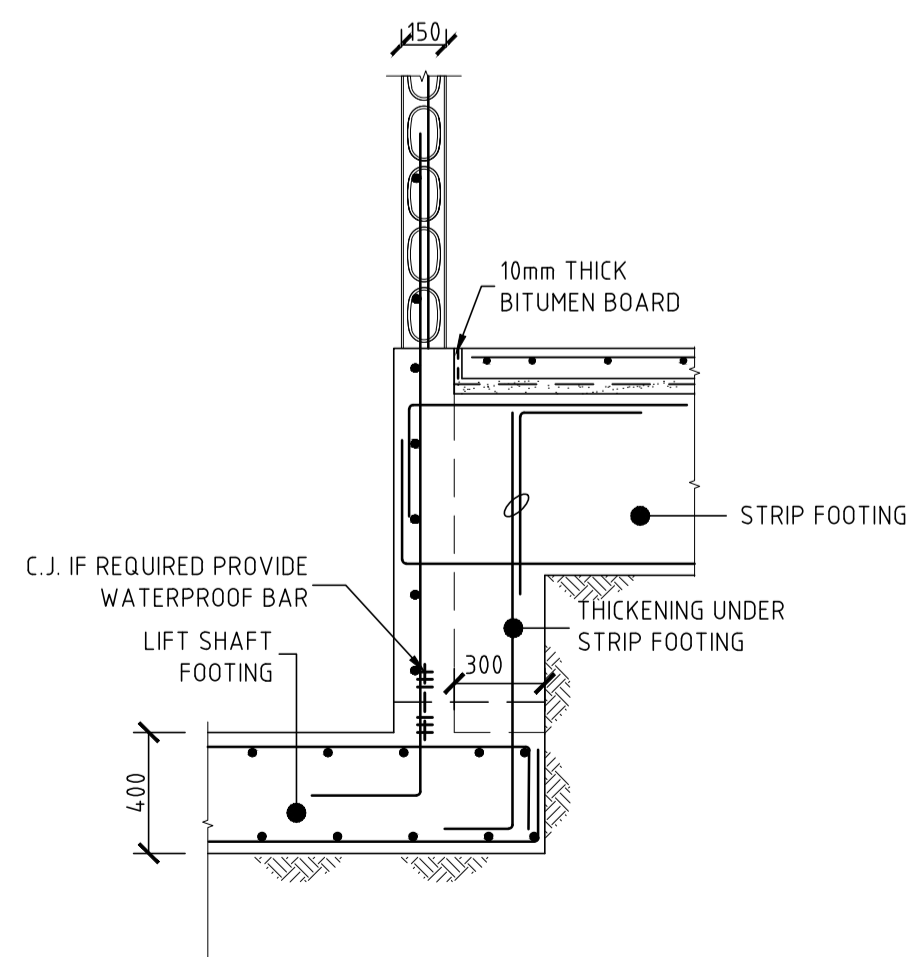
KEY DIAGRAM



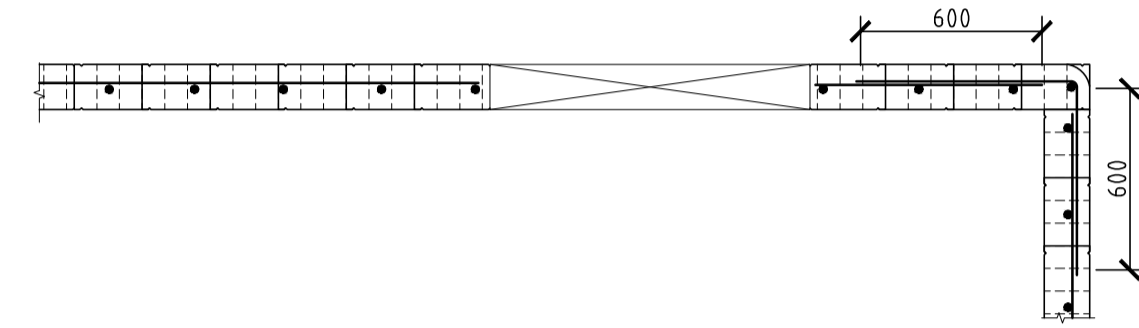
TYPICAL PENETRATION DETAIL
PENETRATION LESS THAN 300mm SQUARE



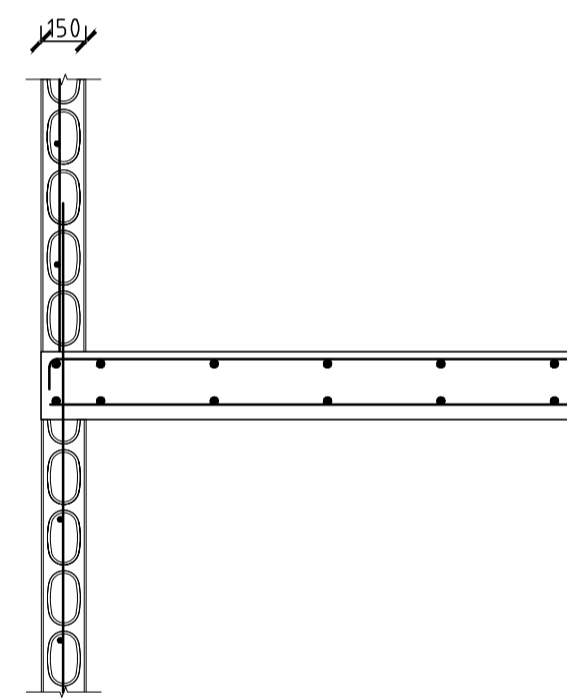
LIFT PENETRATION DETAIL
150mm AFS WALL



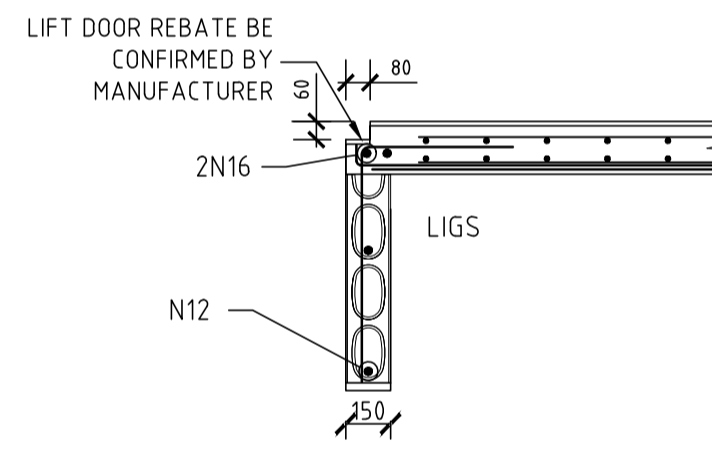
TYPICAL SECTION OF STRIP FOOTING
CONNECTED TO LIFT SHAFT



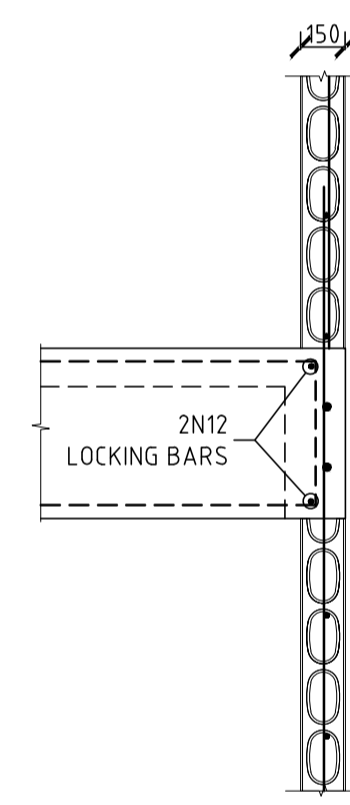
TYPICAL DETAILS AT DOOR OPENINGS & CORNER
150mm AFS WALL



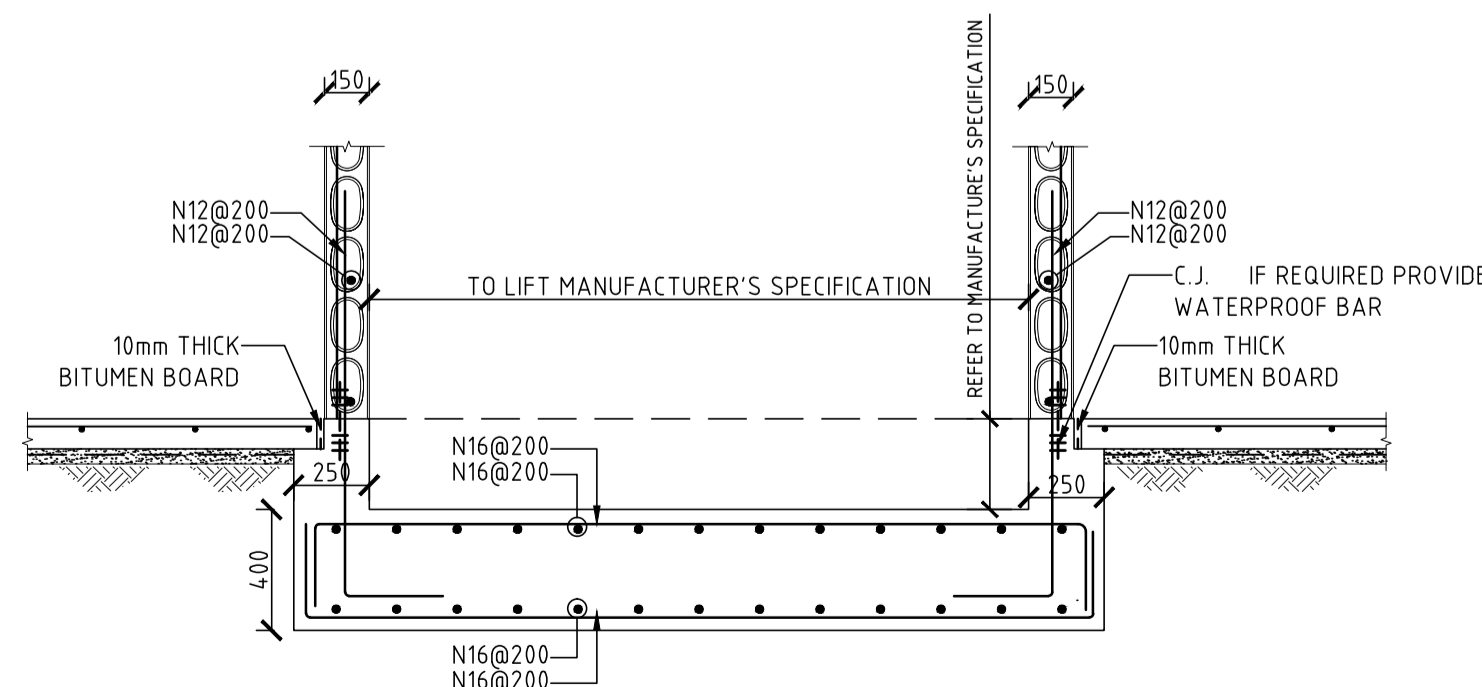
FLOOR TO WALL DETAIL
150mm AFS WALL



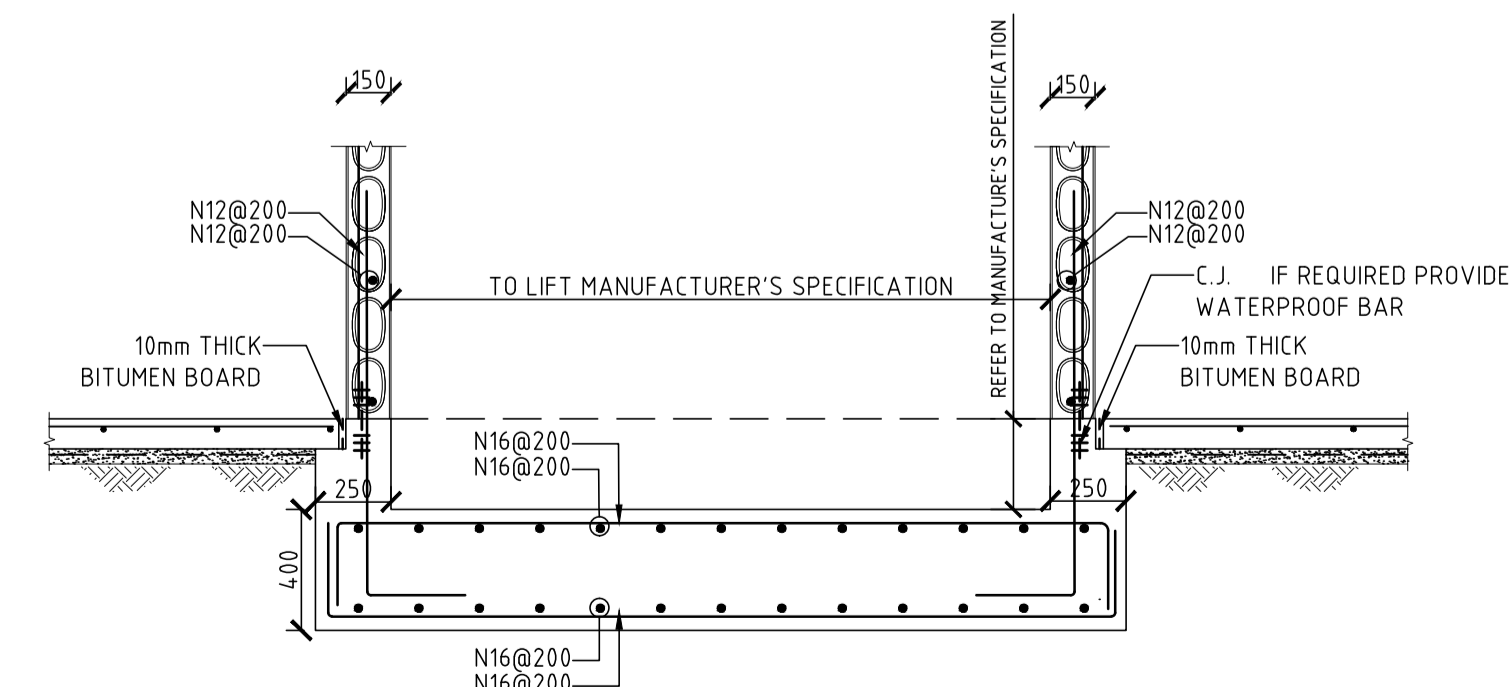
DOOR HEAD DETAIL
150mm AFS WALL



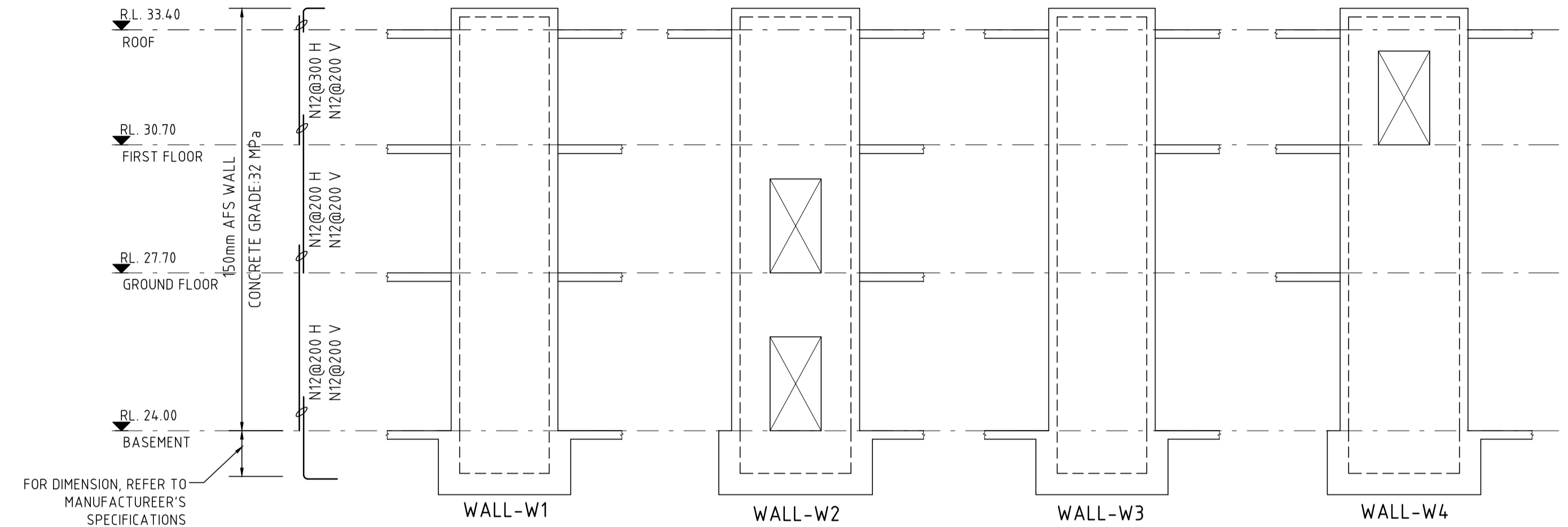
BEAM TO WALL DETAIL
150mm AFS WALL



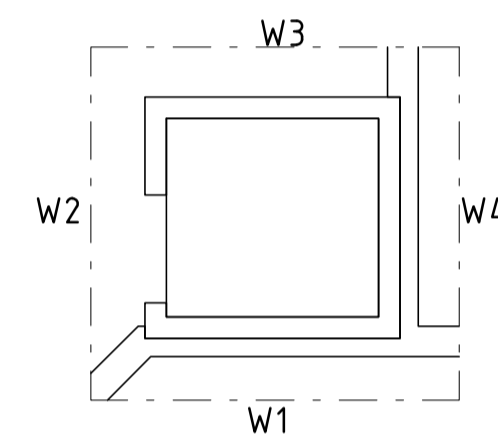
SECTION A-A



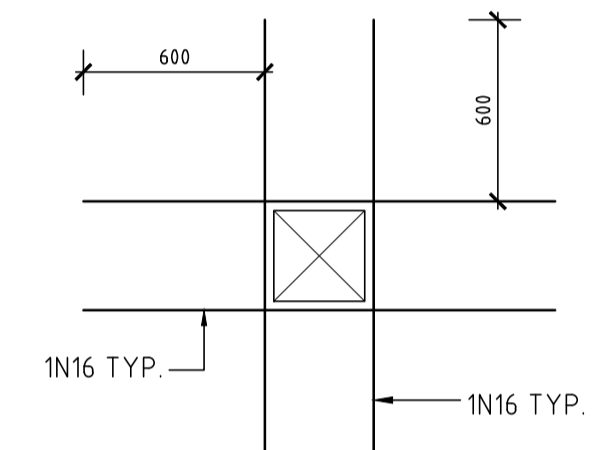
SECTION B-B



LIFT 1



LIFT 1
KEY DIAGRAM



TYPICAL PENETRATION DETAIL
PENETRATION LESS THAN 300mm SQUARE

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AT No. 105 LETITIA STREET, OATLEY**

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DRAWING TITLE
LIFT PLANS AND DETAILS

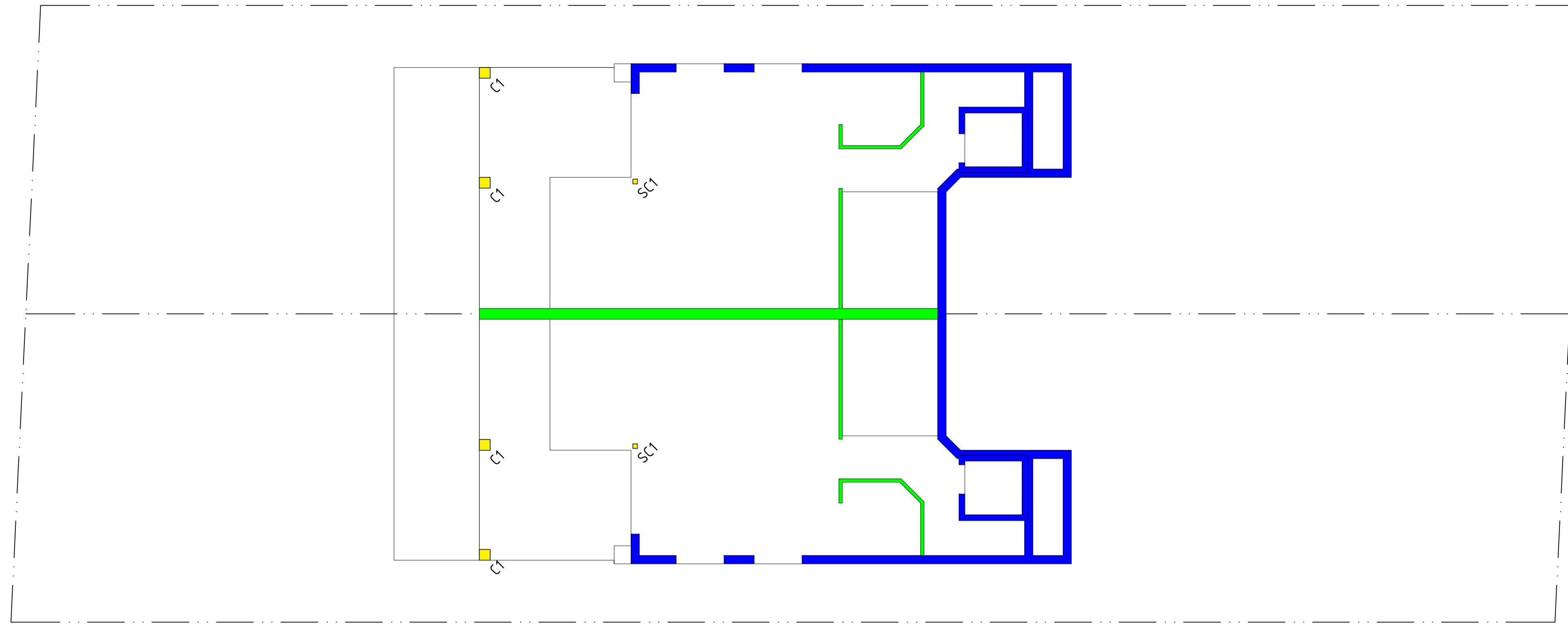
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NOTE: DETAILED WALL THICKNESS AND WALL TYPE TO BE CONFIRMED BY CLIENT, ARCHITECTURE AND BUILDER.



LOWER GROUND FLOOR WALL LAYOUT PLAN AND DETAILS SCALE: 1:100

LEGEND

	LOAD BEARING BRICK WALL
	COLUMN
	150mm AFS WALL

STRUCTURAL WALL SCHEDULE

LEVEL	WALL TYPE	CONCRETE GRADE	REINFORCEMENT	
			VERTICAL	HORIZONTAL
FIRST FLOOR	150mm AFS WALL	S32	N12@200	N12@200
GROUND FLOOR	150mm AFS WALL	S32	N12@200	N12@200
BASEMENT FLOOR	150mm AFS WALL	S32	N12@200	N12@200

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DRAWING TITLE
LOWER GROUND FLOOR WALL LAYOUT

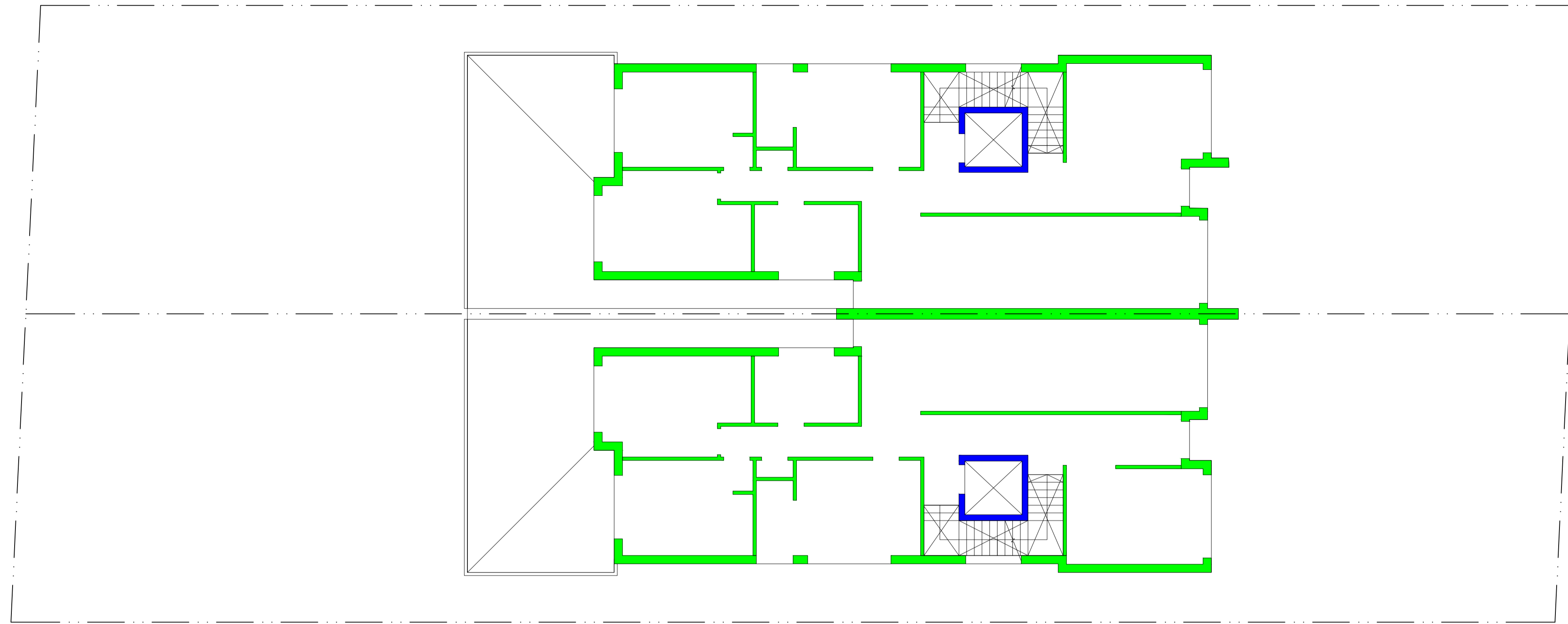
No. IN SET	JOB No	2150.23	DRG. No	REV
			S600	A
SCALE	DESIGNED	DRAWN	DATE	No.
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UPPER GROUND FLOOR WALL LAYOUT PLAN AND DETAILS SCALE: 1:100

LEGEND

	LOAD BEARING BRICK WALL
	COLUMN
	150mm AFS WALL

STRUCTURAL WALL SCHEDULE

LEVEL	WALL TYPE	CONCRETE GRADE	REINFORCEMENT	
			VERTICAL	HORIZONTAL
FIRST FLOOR	150mm AFS WALL	S32	N12@200	N12@200
GROUND FLOOR	150mm AFS WALL	S32	N12@200	N12@200
BASEMENT FLOOR	150mm AFS WALL	S32	N12@200	N12@200

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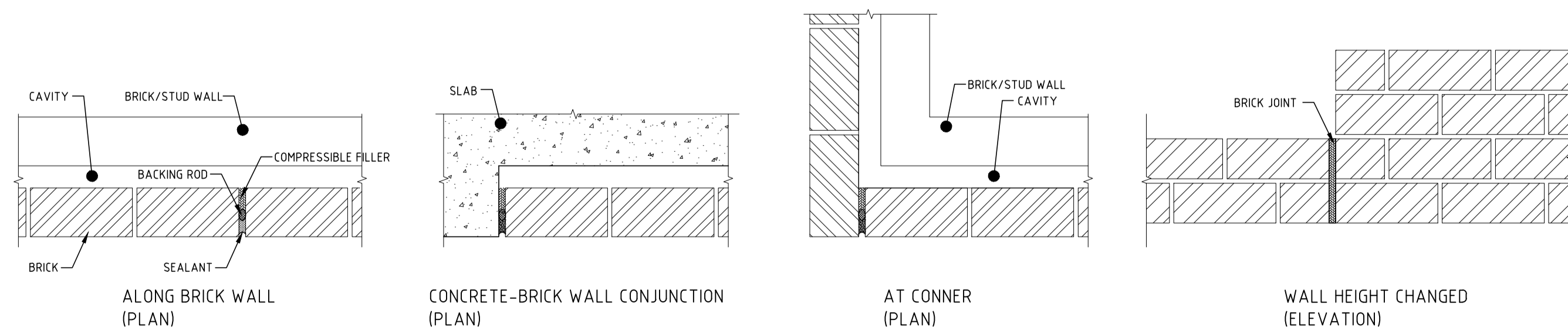
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DRAWING TITLE
GROUND FLOOR WALL LAYOUT

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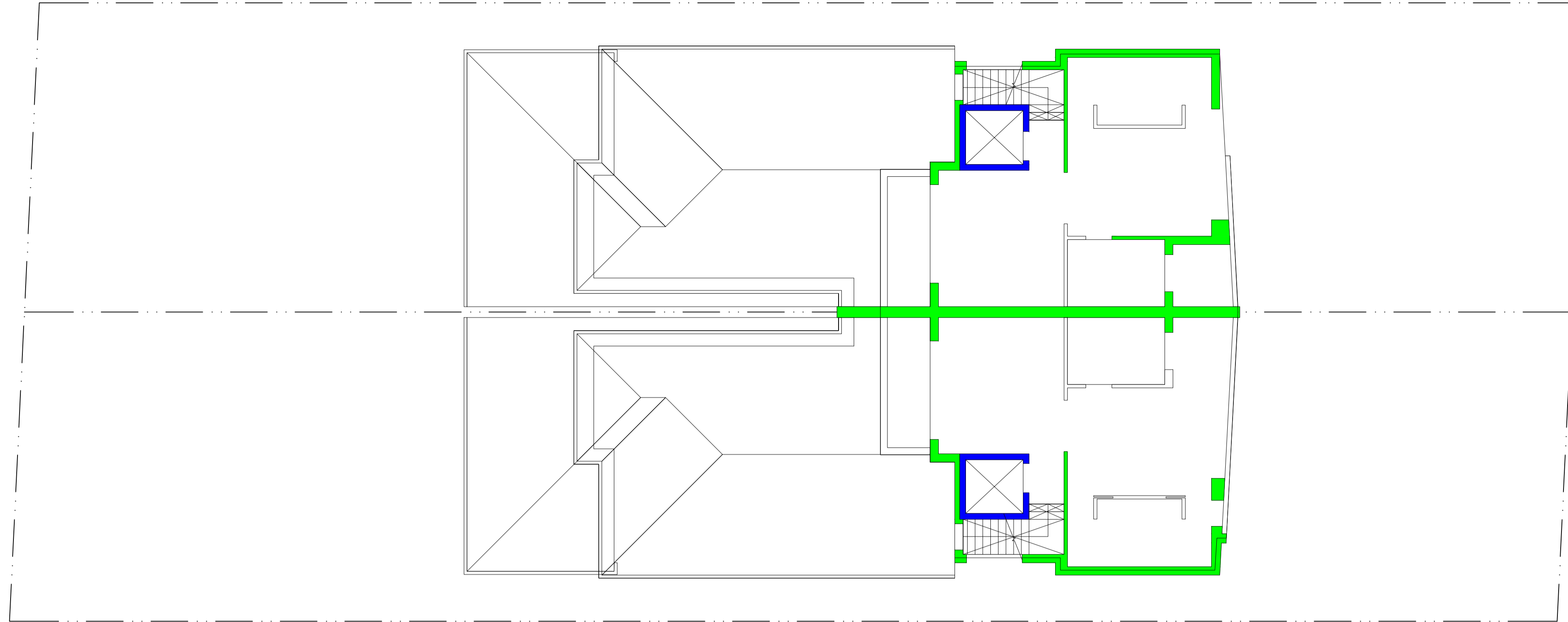
TYPICAL BRICK JOINT DETAIL AND LOCATION

NOTES

- BRICK JOINT OCCUR AT MAX. 7m CTS.

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NOTE: DETAILED WALL THICKNESS AND WALL TYPE TO BE CONFIRMED BY CLIENT, ARCHITECTURE AND BUILDER.



FIRST FLOOR WALL LAYOUT PLAN AND DETAILS SCALE: 1:100

LEGEND

	LOAD BEARING BRICK WALL
	COLUMN
	150mm AFS WALL

STRUCTURAL WALL SCHEDULE

LEVEL	WALL TYPE	CONCRETE GRADE	REINFORCEMENT	
			VERTICAL	HORIZONTAL
FIRST FLOOR	150mm AFS WALL	S32	N12@200	N12@200
GROUND FLOOR	150mm AFS WALL	S32	N12@200	N12@200
BASEMENT FLOOR	150mm AFS WALL	S32	N12@200	N12@200

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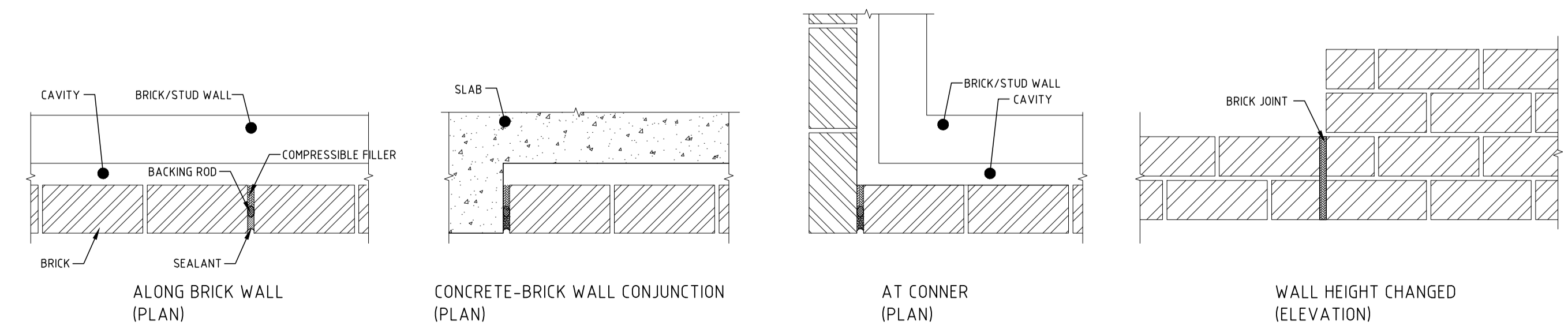
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DRAWING TITLE
FIRST FLOOR WALL LAYOUT

No. IN SET	JOB No	2150.23	DRG. No	REV
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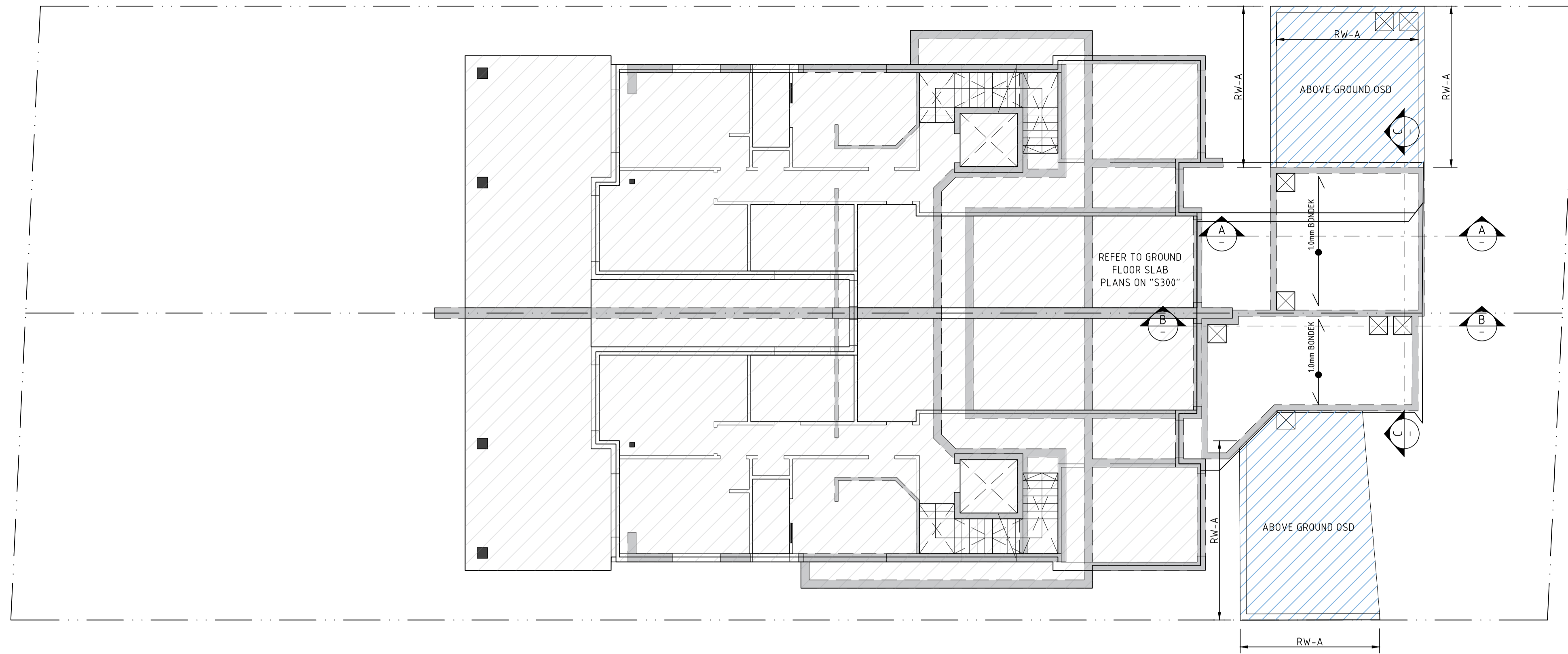
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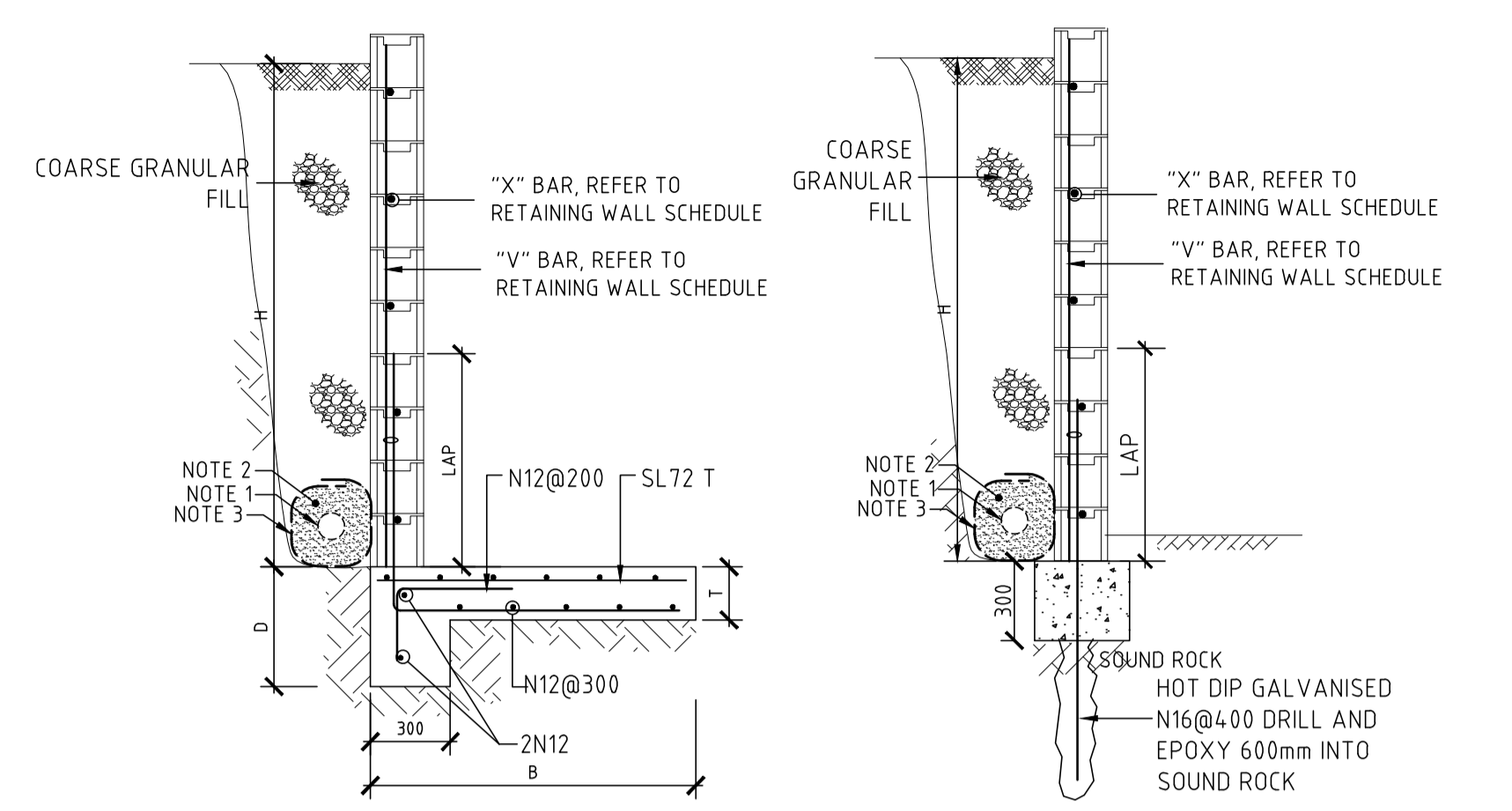


TYPICAL BRICK JOINT DETAIL AND LOCATION NOTES

- BRICK JOINT OCCUR AT MAX. 7m CTS.



OSD SLAB PLAN AND DETAILS SCALE: 1:100
 THICKNESS OF SLAB TO BE 150mm UNO.
 ALL DIMENSIONS AND LEVELS TO SW PLAN



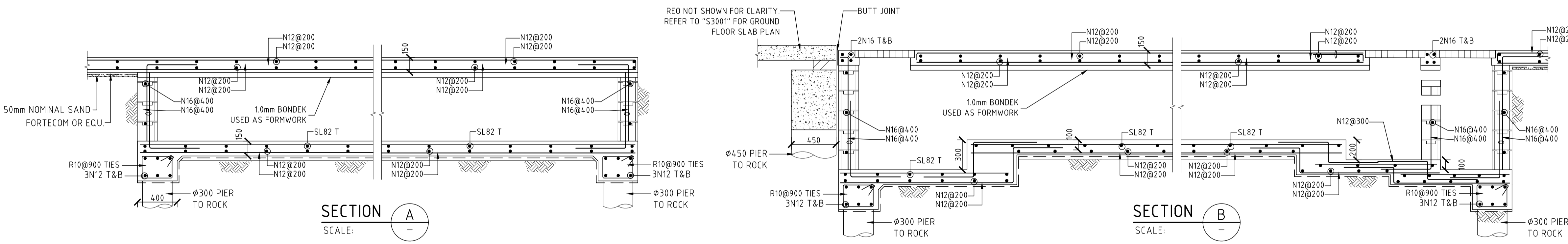
TYPICAL SECTION OF RETAINING WALL ON SOIL RW-A

ALTERNATIVE BLOCK RETAINING WALL ON ROCK RW-A

- RETAINING WALL NOTES**
1. ϕ 100mm RIGID SLOTTED UPVC SUB-SOIL PIPE WRAPPED IN GEOFABRIC SOCK (@MIN 0.5% FALL) TO NEAREST AVAILABLE STORMWATER PIT.
 2. 150mm SURROUND OF 20mm BLUE METAL OR GRAVEL.
 3. GEOFABRIC SOUND TO BE "BIDUM" A24 FILTER FABRIC OR APPROVED EQUAL.
 4. PROVIDE "E" SHAPED CLEAN-OUT BLOCK AT BASE OF RETAINING WALL. OMIT HORIZONTAL BAR FROM TOP OF THIS BLOCK.
 5. IF TANKING MEMBRANE IS REQUIRED, THE DESIGN AND CERTIFICATION IS TO BE PROVIDED BY WATERPROOFING SPECIALIST.
 6. REFER TO BLOCKWORK NOTES.

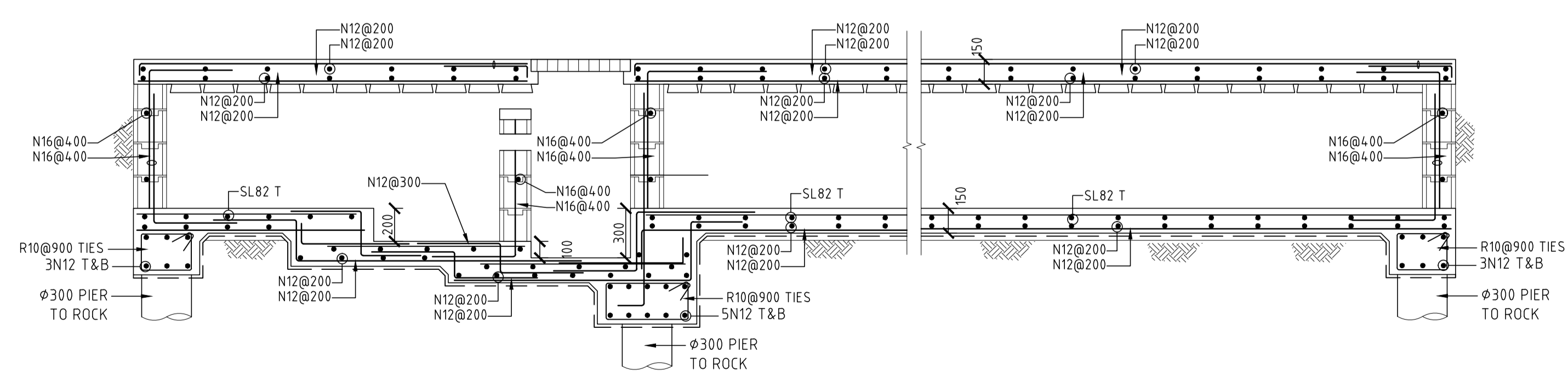
RETAINING WALL RW-B SCHEDULE

HIGH(mm)	B(mm)	D(mm)	T(mm)	"V" BAR	"X" BAR
0-1200	1000	400	200	N12@4.00	N12@4.00
1200-1600	1400	550	250	N16@4.00	N16@4.00
1600-2000	1600	650	250	N16@200	N16@200



SECTION A
SCALE: -

SECTION B
SCALE: -



SECTION C
SCALE: -

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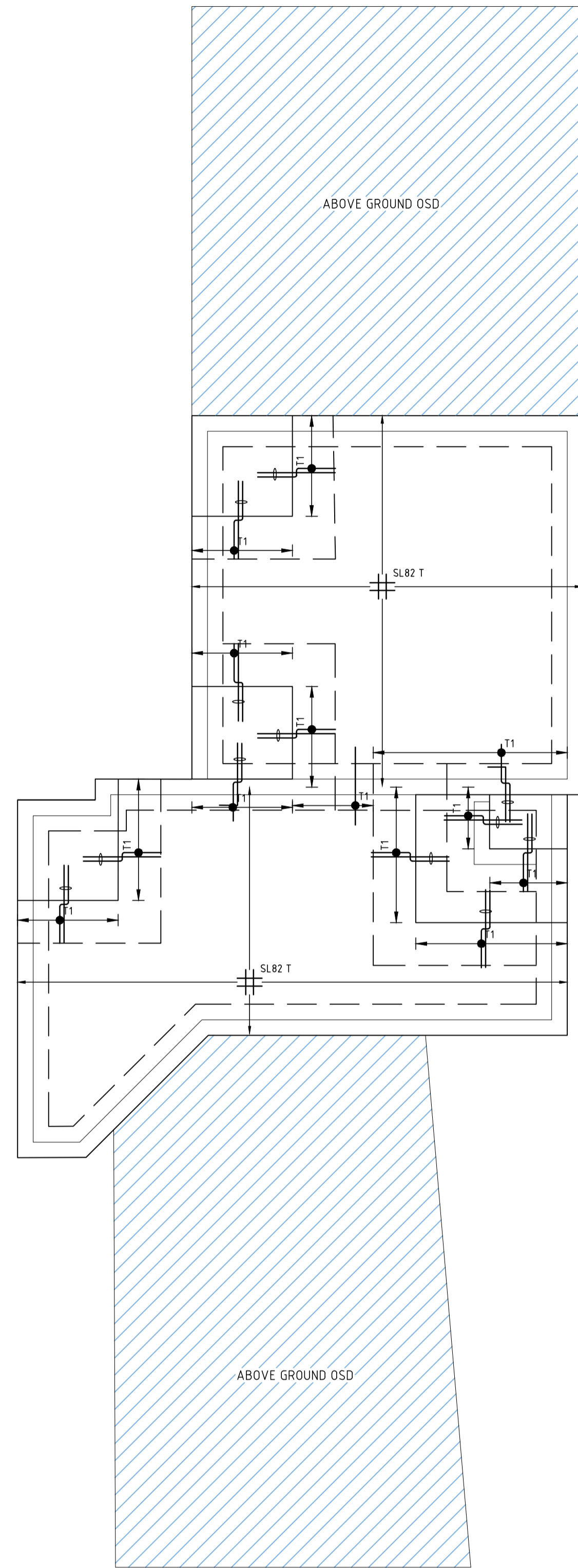
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DRAWING TITLE
OSD SLAB REINFORCEMENT PLAN AND DETAILS

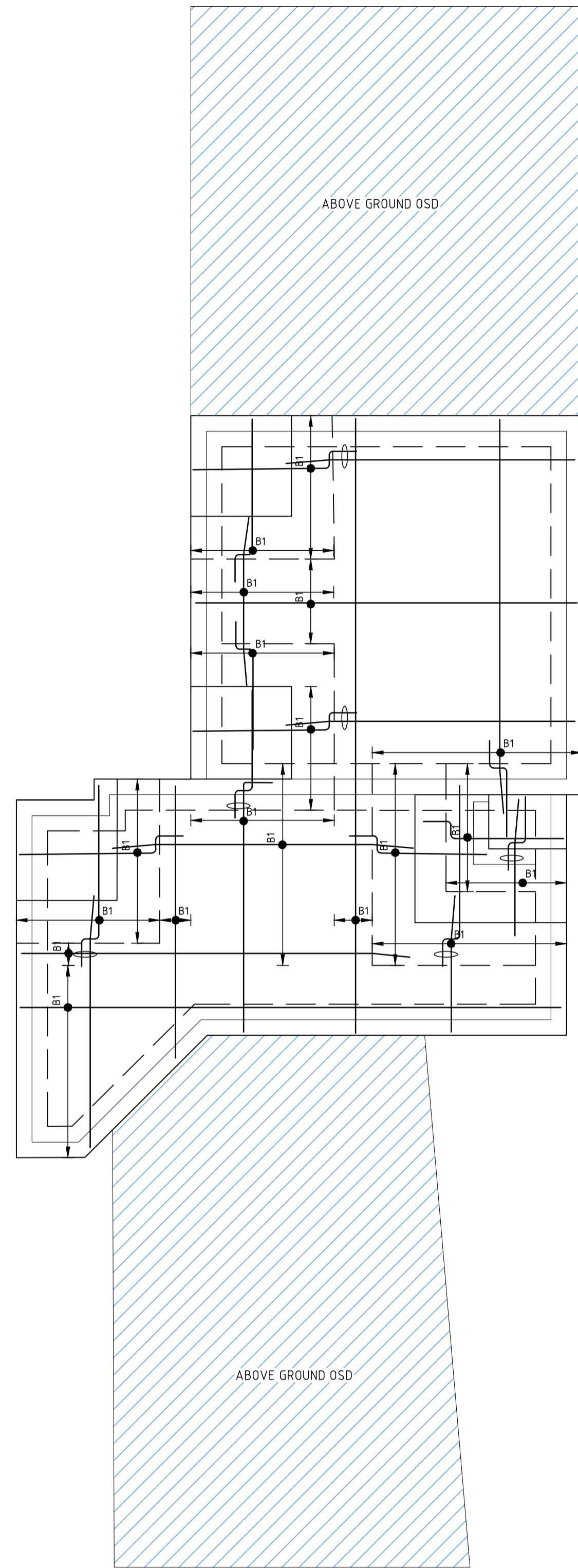
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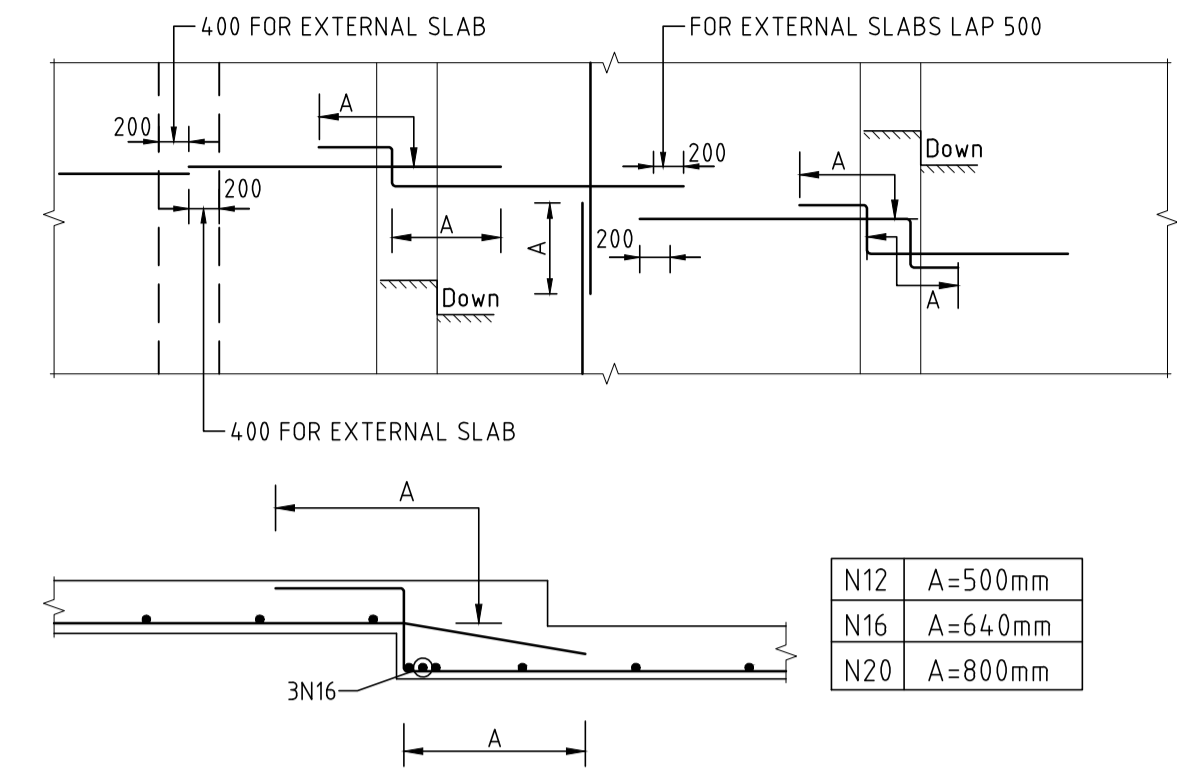


OSD BASE TOP REINFORCEMENT PLAN AND DETAILS SCALE: 1:50
- REFER TO TYPICAL TRIMMER DETAILS

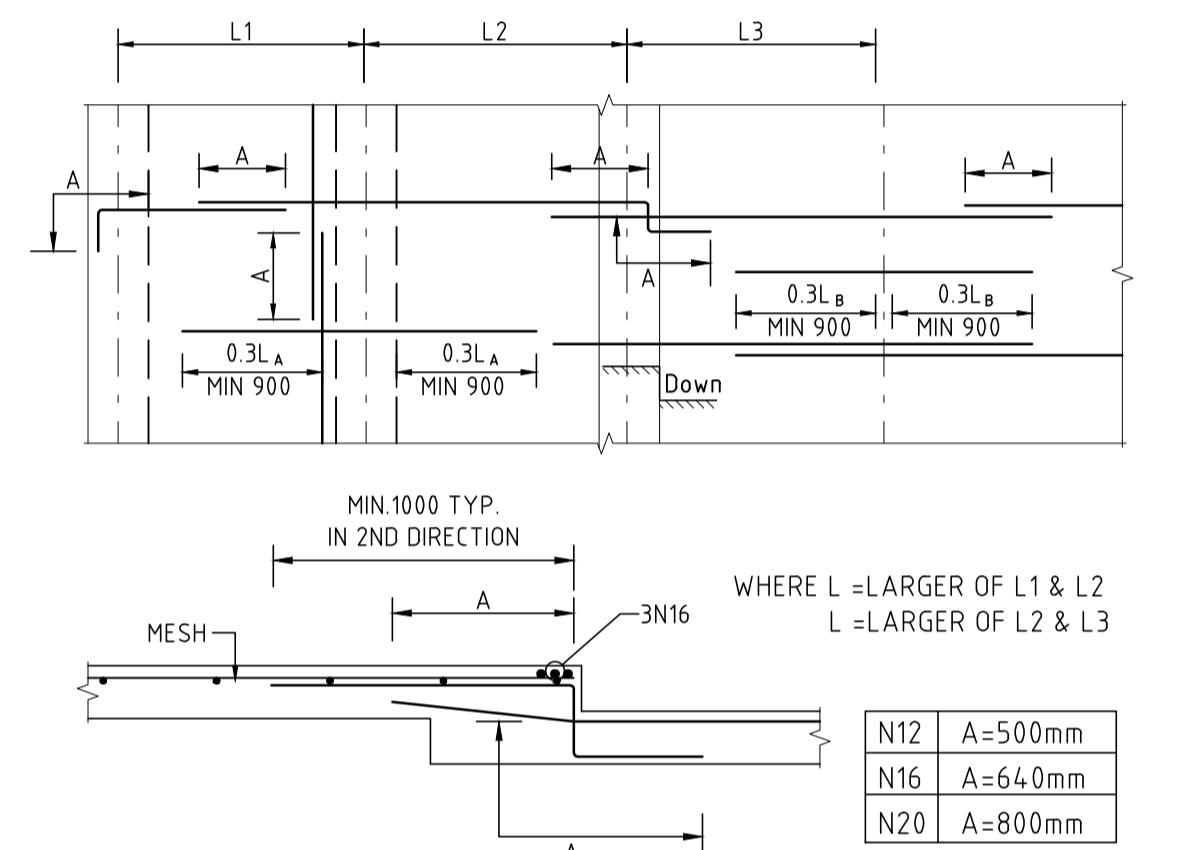


OSD BASE BOTTOM REINFORCEMENT PLAN AND DETAILS SCALE: 1:50
- REFER TO TYPICAL TRIMMER DETAILS

BOTTOM REINFORCEMENT LENGTH



TOP REINFORCEMENT LENGTH



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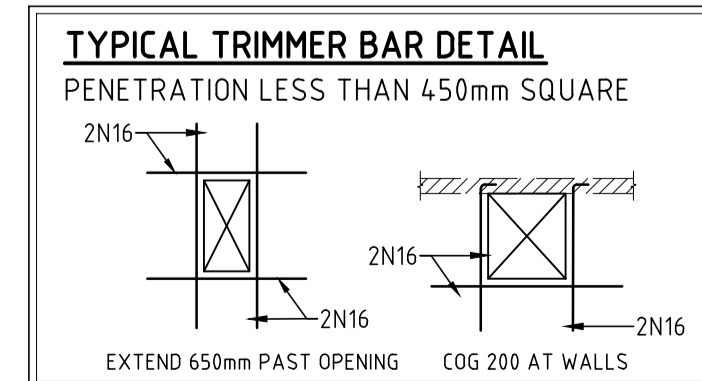
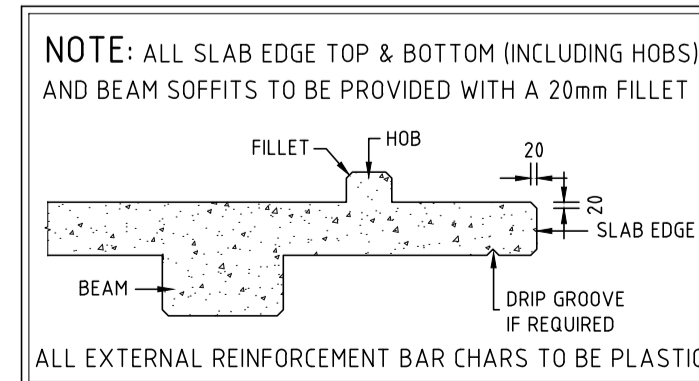
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OSD BASE REINFORCEMENT PLAN AND DETAILS

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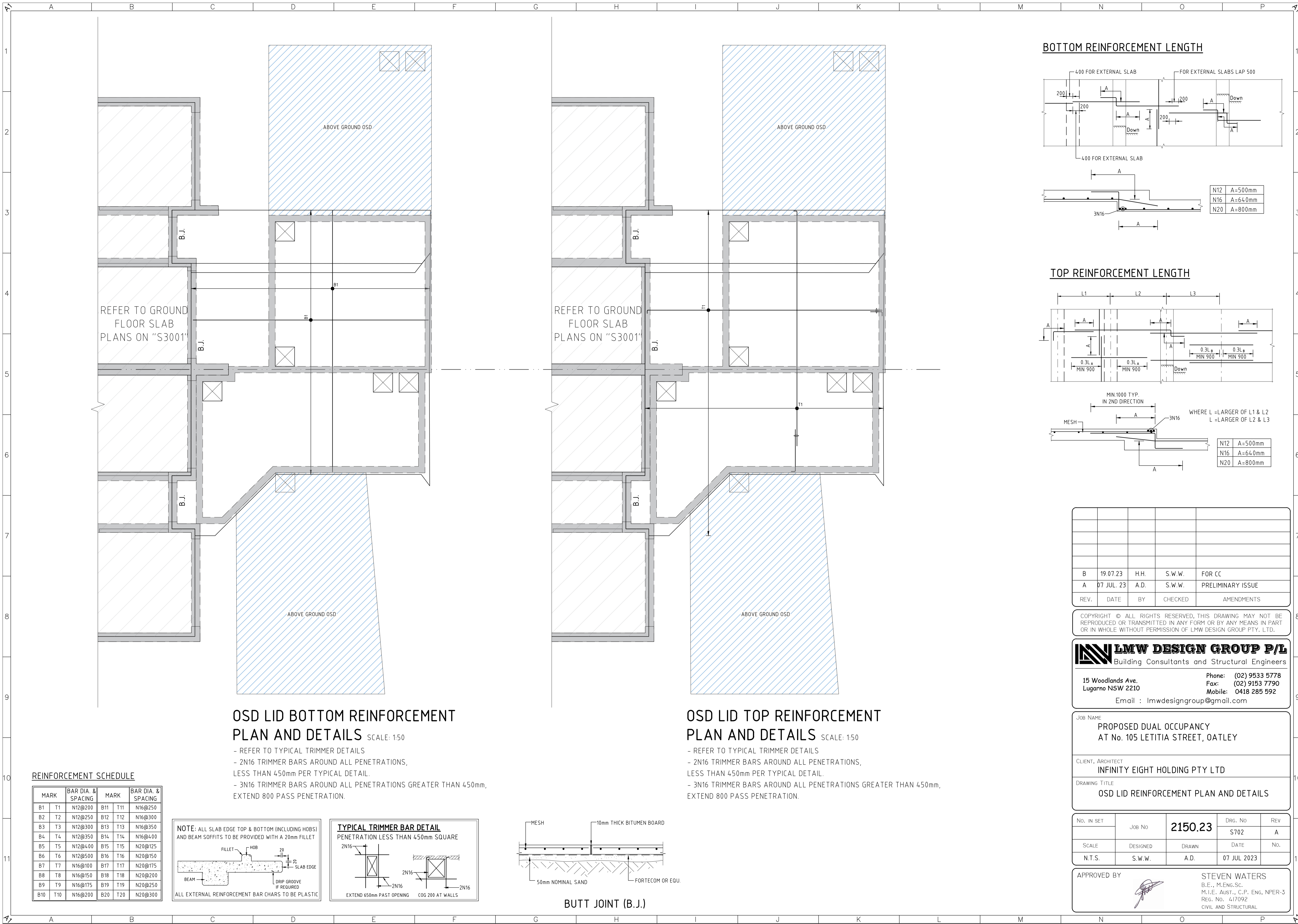
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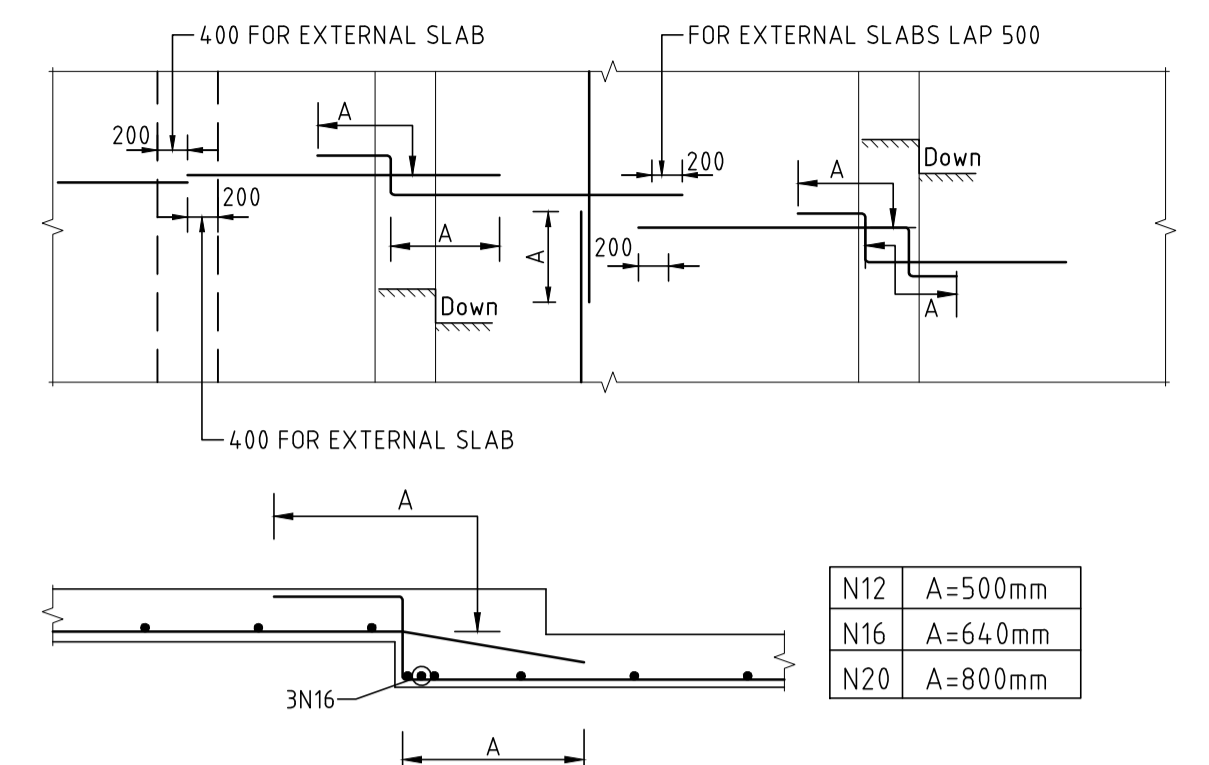


REINFORCEMENT SCHEDULE

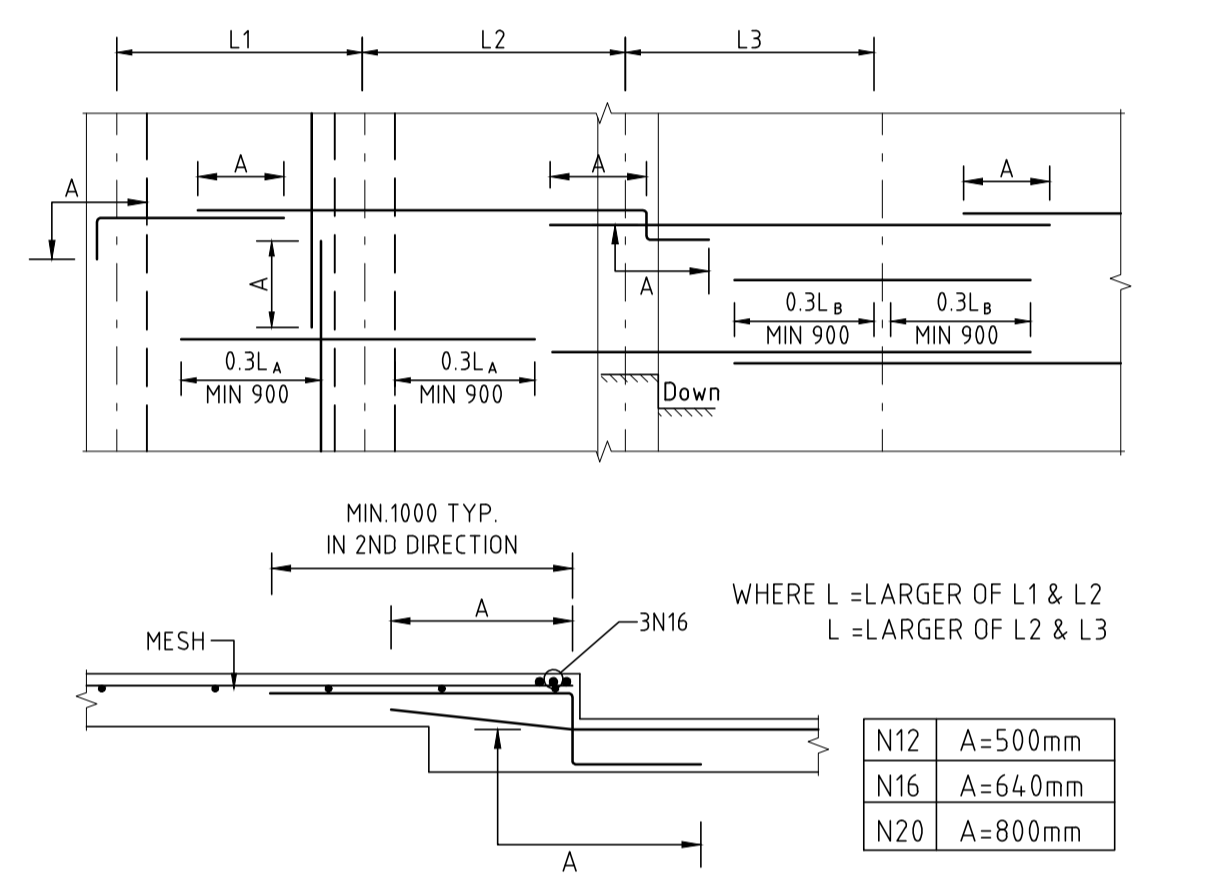
MARK	BAR DIA. & SPACING	MARK	BAR DIA. & SPACING
B1	T1 N12@200	B11	T11 N16@300
B2	T2 N12@250	B12	T12 N16@350
B3	T3 N12@300	B13	T13 N16@350
B4	T4 N12@350	B14	T14 N16@400
B5	T5 N12@400	B15	T15 N20@125
B6	T6 N12@500	B16	T16 N20@150
B7	T7 N16@100	B17	T17 N20@175
B8	T8 N16@150	B18	T18 N20@200
B9	T9 N16@175	B19	T19 N20@250
B10	T10 N16@200	B20	T20 N20@300



BOTTOM REINFORCEMENT LENGTH



TOP REINFORCEMENT LENGTH



OSD LID BOTTOM REINFORCEMENT PLAN AND DETAILS SCALE: 1:50

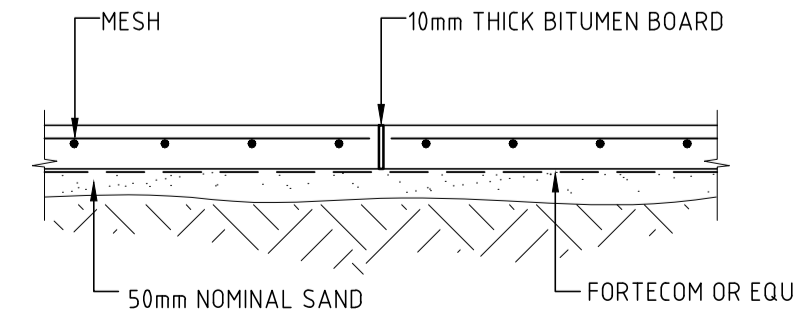
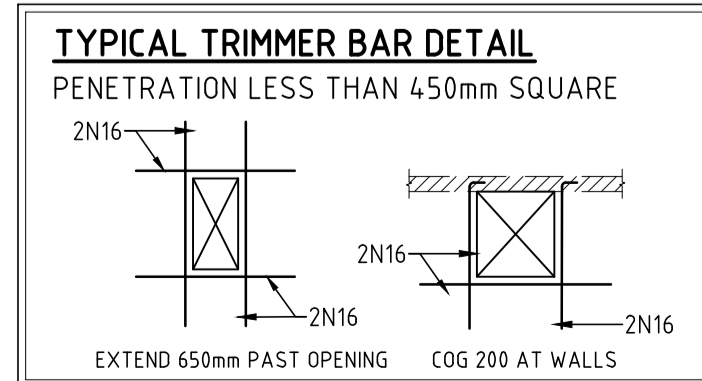
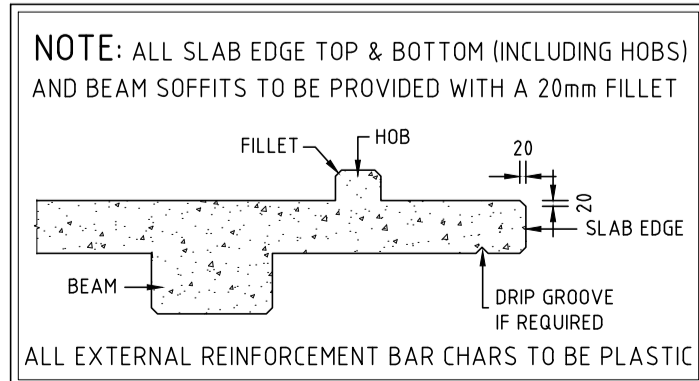
- REFER TO TYPICAL TRIMMER DETAILS
- 2N16 TRIMMER BARS AROUND ALL PENETRATIONS, LESS THAN 450mm PER TYPICAL DETAIL.
- 3N16 TRIMMER BARS AROUND ALL PENETRATIONS GREATER THAN 450mm, EXTEND 800 PASS PENETRATION.

OSD LID TOP REINFORCEMENT PLAN AND DETAILS SCALE: 1:50

- REFER TO TYPICAL TRIMMER DETAILS
- 2N16 TRIMMER BARS AROUND ALL PENETRATIONS, LESS THAN 450mm PER TYPICAL DETAIL.
- 3N16 TRIMMER BARS AROUND ALL PENETRATIONS GREATER THAN 450mm, EXTEND 800 PASS PENETRATION.

REINFORCEMENT SCHEDULE

MARK	BAR DIA. & SPACING	MARK	BAR DIA. & SPACING		
B1	T1	N12@200	B11	T11	N16@250
B2	T2	N12@250	B12	T12	N16@300
B3	T3	N12@300	B13	T13	N16@350
B4	T4	N12@350	B14	T14	N16@400
B5	T5	N12@400	B15	T15	N20@125
B6	T6	N12@500	B16	T16	N20@150
B7	T7	N16@100	B17	T17	N20@175
B8	T8	N16@150	B18	T18	N20@200
B9	T9	N16@175	B19	T19	N20@250
B10	T10	N16@200	B20	T20	N20@300



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DRAWING TITLE				
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