

GENERAL

- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
- G2 MATERIALS AND WORKMANSHIP ON DURING ALL WORKS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, BCA AND ANY OTHER BUILDING REGULATIONS AND REQUIREMENTS OF STATUTORY AUTHORITIES.
- G3 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE (UNO). FOR ALL DIMENSIONS AND LEVELS REFER TO ARCHITECTURAL DRAWINGS.
- G4 DURING THE COURSE OF CONSTRUCTION, ALL CONTRACTORS SHALL BE FULLY RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A ADEQUATE AND STABLE CONDITION AND ENSURING ALL CONSTRUCTION ACTIVITIES ARE NOT OVER STRESSED. .
- G5 DESIGN LIVE LOAD LOADINGS ARE IN ACCORDANCE WITH AS/NZS 1170-2002 AS FOLLOWS:
- ROOF

0.25 kPa

–

BALCONY

2.5 – 3 kPa

–

FLOOR

1.5 – 2 kPa

FOUNDATION (SOIL)

- F1 SITE CONDITIONS ARE ASSUMED UNLESS GEOTECHNICAL REPORT BY A PROFESSIONAL IS PROVIDED. SITE CLASSIFICATION ASSUMPTION: M (MODERATLY REACTIVE SOIL).
- F2 ALL FOOTINGS SHALL BE FOUNDED ON MINIMUM 300 kPa (INTO THE CLAY) UNO. ALL FOOTINGS MUST BE UNIFORM THROUGHOUT, OTHERWISE CONSULT ENGINEER.
- F3 THE ALLOWABLE BEARING CAPACITY SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER, OTHERWISE FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 150 kPa.
- F4 BEFORE ANY REINFORCEMENT IS LAID WITHIN FOOTINGS, A GEOTECHNICAL ENGINEER MUST VERIFY SOIL CONDITIONS AND APPROVED ABOVE SITE CLASSIFICATIONS.
- F5 ALL FOOTINGS MUST BE PLACED CENTRALLY UNDER ALL COLUMNS AND WALLS (UNO).
- F6 IF SOIL IS DISRUPTED, THE BOTTOM OF THE EXCAVATIONS SHALL BE COMPACTED TO A RELATIVE DRY DENSITY OF 100% AS DETERMINED IN ACCORDANCE WITH AS 1289.5.4.1-2007 AND AS 1289.5.1.1-2003
- F7 FOOTING CONNECTION NEXT TO EXISTING STRUCTURES IS ASSUMED UNLESS A FULL INVESTIGATION IS CARRIED OUT. IT IS THE BUILDER/CLIENT RESPONSIBILITY TO INFORM THE ENGINEER IF THE EXISTING STRUCTURE INADEQUATE OR INDIFFERENT TO THE STRUCTURAL PLANS.

REINFORCED AND NON CONCRETE BORED PILES

- B1 THE BORED PILES CONSISTS PART OF THE SCHEDULED LOADS WITH ALLOWABLE SOCKET SKIN FRICTION AND END BEARING CAPACITY AS INDICATED IN THE REPORT. THE DEPTHS AND LENGTHS INDICATED ON THE STRUCTURAL PLANS AND NOMINATED IN THE SCHEDULE ARE INDICATIVE ONLY. DEPTHS AND SPACING OF BORED PIERS VARY DEPENDING ON SITE CLASSIFICATION.
- B2 IF SANDY MATERIAL IS FOUND THROUGHOUT THE SITE GREATER THEN 2000mm SCREW PIERS MAY BE REQUIRED. DESIGN LOAD FOR EACH SCREW PILE 85 KN (UNO).
- B3 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 2159.
- B4 THE BORED PILES SHALL BE LOCATED CONCENTRIC WITH THE COLUMNS AND WALLS (UNO).
- B5 DRILL AND INSTALL THE BORED PILES IN THE LOCATIONS SHOWN ON THE DRAWINGS AND THE ABOVE REQUIREMENTS.
- B6 ALL PIERS GREATER THEN 2 METERS OR MORE THEN 1 METER OF FILL MUST BE REINFORCED WITH 5N16 WITH R10-300 CTS HELICAL TIES.

GRENERAL GROUND PIER NOTES (UNLESS NOTED OTHERWISE)					
TYPE	DIAMETER Ø	f'c=MPa (UNO)	SPACING (mm)	MIN, BEARING	DEPTH
CONCRETE BORED PIERS	400	25	1800	VERY STIFF CLAY (300 kPa)	MAX. 2000mm OR 1000mm OF FILL
REINFORCED CONCRETE PIERS: 5N16 + R10-300 HELICAL TIES	400	25	1800	VERY STIFF CLAY (300 kPa)	> 2000mm OR >1000mm OF FILL OR CLASS P SITE

NOTE: IF PIERS NOT NOMINATED TO BE REINFORCED ON PLAN USE TABLE ABOVE. ALL PIERS MUST BE LOCATED AT EVERY CORNER JUNCTION. ALL PIERS MUST BE UNIFORM AND STABLE THROUGHOUT, IF ROCK IS PRESENT ALL PIERS ARE TO BE FOUNDED ON ROCK THROUGHOUT WITH A MINIMUM SAFE END BEARING OF 600 kPa.

STRUCTURAL TIMBER

- T1 MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1720.1 AND AS1720.2, TIMBER ENGINEERING CODE AS1684, OTHER RELEVANT TIMBER FRAMING CODES AND BCA VOLUME 2 SECTIONS 3.4 & 3.5
- T2 ALL TIMBER USED SHALL HAVE BEEN STRESS GRADED BY VISUAL OR MECHANICAL MEANS IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARDS.
- T3 HOLES FOR BOLTS, UNO, SHALL BE DETERMINED AS FOLLOWS: BOLT DIAMETER: =15mm OR < – 2mm OVERSIZE BOLT DIAMETER: =16mm OR > – 3mm OVERSIZE
- T4 SOFTWOOD TO BE MINIMUM GRADE F7 UNO. HARDWOOD TO BE MINIMUM GRADE F14
- T5 EDGE DISTANCES FOR FASTENERS IN TIMBER (FROM ENDS AND SIDES) SHALL BE IN ACCORDANCE WITH AS1720.1 UNO
- T6 WALL BRACING TO STUD WALLS IN ACCORDANCE WITH AS1684 IS O OBTAIN ENGINEER APPROVAL.
- T7 ALL ROOF HOLD DOWN CONNECTORS FOR WIND UPLIFT IN ACCORDANCE WITH AS1684.
- T8 ALL BOLTS IN TIMBER CONSTRUCTION SHALL BE MINIMUM M12 UNO.
- T9 ALL TRUSS AND CONVENTIONAL ROOFING TO BE MADE GOOD BY LICENSED CARPENTER TO AS1684.

STRUCTURAL MASONRY

- M1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700 AND OTHER RELEVANT CODES.
- M2 NON-LOAD BEARING WALLS SHALL BE SEPARATED FROM STRUCTURAL ELEMENT ABOVE BY MINIMUM 25mm GAP. PROVIDE JOINT FILLER TO ARCHITECTS DETAILS.
- M3 PROVIDE VERTICAL CONTROL JOINTS AT 8 METERS MAXIMUM CENTERS AND 4 METERS MAXIMUM FROM CORNER MASONRY WALLS, EXISTING AND NEW BRICK WORK.
- M4 NO PENETRATIONS OR RECESSES ARE TO FOUND THROUGH A LOAD BEARING STRUCTURE WITHOUT ENGINEER APPROVAL.
- M5 ALL INTERSECTIONS THAT DON'T HAVE A CONTROL JOINT SHALL BE OF BONDED CONSTRUCTION OR TIED WITH HEAVY DUTY TIES AT 400mm MAXIMUM VERTICAL CENTERS.
- M6 RETAINING WALLS TO CONSIST OF GRANULAR MATERIAL BACKFILL (300mm WIDE STRIP) UNO. REFER TO ARCHITECT FOR WATERPROOFING DETAILS.
- M7 SUSPENDED SLABS MUST ACHIEVE MINIMUM 80% OF ITS DESIGN STRENGTH AND ALL FORMWORK PROPS ARE REMOVED BEFORE ANY BRICK OR BLOCK WORK IS CONSTRUCTED ON TOP.
- M8 IDENTIFYING NON-LOAD BEARING MASONRY WALLS/PARTITIONS AND OTHER NON-LOAD BEARING ELEMENTS IS NOT INCLUDED IN THE STRUCTURAL ENGINEER'S SCOPE OF WORKS.
- M9 CONCRETE BLOCKS SHALL BE GRADE 12 UNITS CONFORMING TO AS 2733
- M10 ALL MORTAR SHALL BE PREPARED AND COMPOSED OF RATIO 1:1:6 (CEMENT:LIME:SAND) AND COMPLY TO AS3700.
- M11 ALL BLOCK WORK TO HAVE MAXIMUM 120mm SLUMP, 20mm MAX. AGGREGATE SIZE AND MINIMUM 40mPa.
- M12 ALL REINFORCEMENT IS INDICATED ON STRUCTURAL PLANS AND HAVE A MINIMUM OF 50mm COVER UNO.

CONCRETE

- C1 ALL WORKS AND CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600-2009. ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3610-1995.
- C2 NO PENETRATION, CHASES OR EMBEDMENTS THAT INTERFERES WITH THE INTEGRITY OF THE STRUCTURE SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT ENGINEER'S APPROVAL.
- C3 MINIMUM COVER TO REINFORCEMENT ARE AS FOLLOWS (UNO):

Element	Cover (mm)
Footings	50
External ground slab	40
Internal ground slab (top)	30
Internal ground slab (btm)	40

- C4 ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD THE CONCRETE DURING A POUR.
- C5 CONSTRUCTION JOINTS SHALL BE PROPERLY IMPLEMENTED AND LOCATED TO THE SATISFACTION OF THE ENGINEER. BUILDER SHALL CONFIRM WITH ENGINEER.
- C6 APPLIED FINISHES ARE NOT INCLUDED FOR THICKNESS OF CONCRETE ELEMENTS NOMINATED IN STRUCTURAL DRAWINGS.
- C7 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C8 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED BASED ON THE ENGINEER APPROVAL.
- C9 HOOKS AND COGS SHALL COMPLY WITH AS3600 UNO. BARS SHALL NOT BE HEATED ABOVE 400 DEGREES CELSIUS WITHOUT THE ENGINEER'S WRITTEN APPROVAL. THERMAL CRAYONS SHALL BE USED TO ENSURE COMPLIANCE WITH THIS TEMPERATURE LIMIT.
- C10 ONCE CONCRETE HAS BEEN POURED, CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING THE CONCRETE SURFACE CONTINUOUSLY WET FOR A PERIOD OF MINIMUM 3 DAYS, PREVENTING LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. ALL CURING COMPOUNDS MUST COMPLY WITH AS 3799.
- C11 ALL CONCRETE SUPPLY AND TESTING OF CONCRETE MUST COMPLY WITH AS3600, AS1012 AND AS1079. ALL SAMPLES (BATCHES) TO BE DELIVERED TO SITE FOR SLUMP LESS THEN 85mm. ALL SAMPLES TO BE IN ACCORDANCE WITH AS1012 FOR COMPRESSIVE STRENGTH AT 7 DAYS AND 28 DAYS IN A LABORATORY. A FORMAL CERTIFICATES MUST BE SENT FOR STRUCTURAL ENGINEER APPROVAL.
- C12 ALL FORM WORK SHALL COMPLY TO AS3610-1995. NO MASONRY OR PARTITION WALLS ARE TO BE BUILT ON ANY SUSPENDED SLABS UNTIL ALL PROPS ARE SAFELY REMOVED AND THE SLAB HAS HAD 28 DAYS OF CURING UNO AND TAKEN ITS SHORT TERM DEAD LOAD DEFLECTION.
- C13 CONDUITS, PIPES, ETC. SHALL ONLY BE LOCATED IN THE MIDDLE THIRD OF THE SLAB DEPTH. ALL PIPES OR CONDUITS SHALL NOT BE IMPLEMENTED WITHIN THE COVER TO REINFORCEMENT.
- C14 ALL CONCRETE PENETRATIONS GREATER THEN 150mm OR ANY PIPING GREATER THEN 40mm WITHIN THE SLAB MUST BE APPROVED BY A STRUCTURAL ENGINEER.
- C15 CONCRETE QUALITY SHOWN BELOW (UNO):

CONCRETE QUALITY			
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	f'c AT 28 DAYS
SUSPENDED SLAB	80mm	20mm	32 MPa
SLAB ON GROUND	80mm	20mm	25 MPa
FOOTINGS	80mm	20mm	25 MPa
COLUMNS	80mm	20mm	32 MPa

CONCRETE QUALITY				
ELEMENT	COVER (mm)			EXPOSURE CLASS. (AS3600)
	TOP	BTM	SIDES	
SUSPENDED INTERNAL SLAB	30 mm	30 mm	30 mm	A1
SUSPENDED EXTERNAL SLAB	40 mm	40 mm	40 mm	B1
INTERNAL SLAB	20 mm	20 mm	20 mm	A1
EXTERNAL SLAB	40 mm	40 mm	40 mm	A2
FOOTINGS	40 mm	65 mm	65 mm	A1
COLUMNS	50 mm	50 mm	50 mm	A1

STRUCTURAL STEELWORK

- S1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 4100 AND ALL OTHER RELEVANT DOCUMENTS.
- S2 ALL EXTERNAL AND EXPOSED STRUCTURAL STEEL MUST BE HOT DIPPED GALVANIZED.
- S3 ALL STEEL SHALL BE IN ACCORDANCE WITH AS 3678 GRADE 250, OR AS 3679 GRADE 300 PLUS, OR AS 1163 GRADE C350 UNO.
- S4 UNLESS OTHERWISE NOTED: WELDS TO BE 6mm CONTINUOUS FILLETS LAID DOWN WITH APPROVED COVERED ELECTRODES. ALL WELDS SHALL BE CATEGORY SP UNO. WELDS SHALL CONFORM TO AS/NZS 1554 AND TO AS/NZS 1553. GUSSET PLATES TO BE 10mm THICK. BOLTS TO BE M20-8.8/S IN 22mm DIAMETER HOLES. PROVIDE A MINIMUM OF TWO BOLTS PER CONNECTION.
- S5 FABRICATOR SHALL PROVIDE ALL FIXINGS FOR ARCHITECTURAL ELEMENTS ETC. THIS IS NOT WEAKEN ANY STRUCTURAL MEMBERS.
- S6 CAMBER BEAMS SHALL BE ASSESSED AND DESIGN BY AN ENGINEER BEFORE ANY DESIGN IS CARRIED OUT.
- S7 SHOP DRAWINGS BY STEEL FABRICATORS ARE NOT TO USE STRUCTURAL DRAWINGS FOR SET OUTS AND DIMENSIONS. THIS IS TO BE OBTAINED BY ARCHITECTURAL DRAWINGS AND A FULL REVIEW OF SHOP DRAWINGS BY ENGINEER MUST COMMENCE FOR ANY APPROVAL.
- S9 ALL BOLT CATEGORIES ARE SET AS FOLLOWS:
– 4.6/S – COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO AS/NZS 1111 (SNUG-TIGHT CONDITION).
8.8/S – HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO AS/NZS 1252 (SNUG-TIGHT CONDITION)
– 8.8/TF HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO AS/NZS 1252 (FULLY TENSIONED TO AS 1511, FRICTION JOINT).
– 8.8/TB HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO AS/NZS 1252 (FULLY TENSIONED TO AS 1511, BEARING JOINT).
- S10 TF AND TB HIGH STRENGTH SHALL BE INSTALLED USING APPROVED LOAD INDICTOR WASHERS.
- S11 ALL CONCRETE ENCASED STEEL WORK SHALL BE WRAPPED WITH SL41 FABRIC. MINIMUM OF 50mm COVER SHALL BE APPLIED UNO.
- S12 ALL STRUCTURAL BOLTS EMBEDDED INTO ADEQUATE BRICK WORK SHALL FINISH MAX, AND MIN. 2/3 OF WALL.
- S13 FABRICATION AND ERECTION SHALL COMPLY TO AS 4100.
- S14 THE ENDS OF TUBULAR MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS FILLET WELDED UNLESS NOTED OTHERWISE.
- S15 STRUCTURAL STEEL MEMBERS THAT ARE REQUIRED TO BE TWISTED, BENT OR ROLLED, THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCEDURES REQUIRED TO ACHIEVE THE REQUIRED OUTCOME WITHOUT ANY DISTORTION OF THE MEMBERS.
- S16 ALL STRUCTURAL STEEL MEMBERS SHALL BE PROVIDED IN ONE LENGTH UNO.
- S17 STEEL WORK NOT ENCASED SHALL HAVE THE FOLLOWING TREATMENT:
A1/A2 – CLASS 1 POWER MECHANICAL CLEAN. 1 COAT ALKYD PRIMER (ZINC PHOSPHATE)
B1 – ABRASIVE BLAST TO AS1627 CLASS 2.5 1 COAT INORGANIC ZINC SILICATE
B2 – HOT DIPPED GALVANISED TO AS4680

SLAB ON GROUND

- S61 ALL CONCRETE WORK TO COMPLY WITH AS 3600 CONCRETE CODE, AS2870 AND BCA SECTIONS 3.1, 3.2 AND 3.3 AND THE CONCRETE NOTES ON THE STRUCTURAL PLANS..
- S62 REMOVE ANY TOP SOILS AND VEGETATION INCLUDING ROOTS AND ANY OTHER UNNECESSARY ORGANIC MATTER OF MINIMUM 150mm AND REPLACED WITH APPROVED GRANULAR FILLING COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289-E1.1.
- S64 APPROXIMATELY 50mm OF WATERED DOWN AND COMPACTED SAND IS USED AS A LEVELING LAYER FOR THE PROPOSED SLAB.
- S65 SITE CLASSIFICATION TO BE ASSUMED CLASS M UNLESS A GEOTECHNICAL REPORT IS PROVIDED FOR ACCURATE DETERMINATION.
- S66 DAMP PROOFING MEMBERS TO BE PLACED OVER SAND

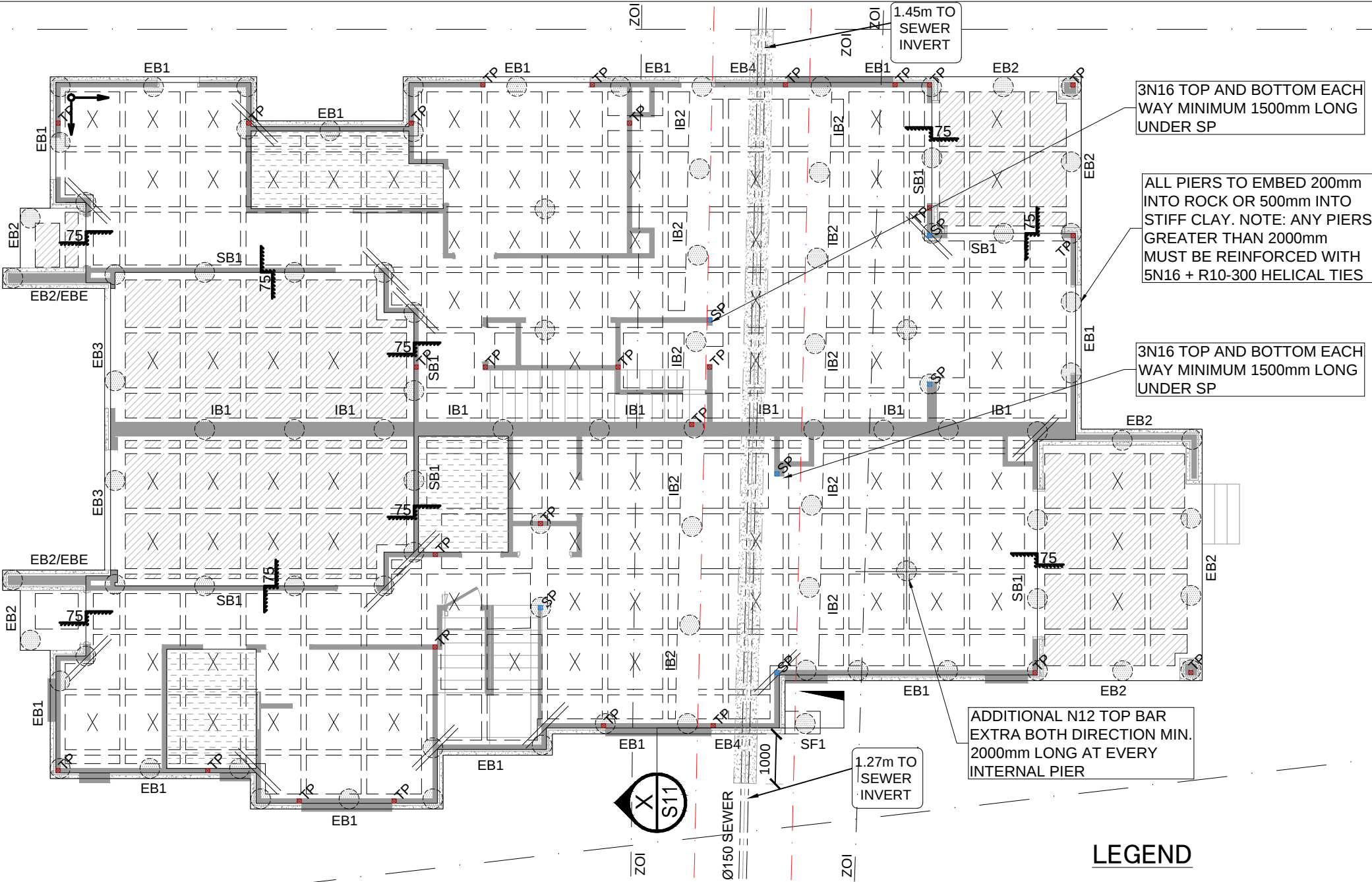
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		A	ISSUED FOR C.C.	M.H.	M.H.	13.05.2024	PROJECT ADDRESS 43 ORWELL STREET, BLACKTOWN				COVER NOTES		
									JOB NUMBER			SCALE	DRAWING NO.
									24061			A3	S00

NOTES:

- 1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURALS PLANS PROVIDED.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.
- 3. DURING CONSTRUCTION , FOUNDATION MATERIAL HAS TO BE CHECKED AND VERIFIED BY A GEOTECHNICAL ENGINEER TO ENSURE THE SAFE BEARING CAPACITY OF FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.

FOUNDATION & PIER NOTES

THE BUILDER/CLIENT MUST OBTAIN A GEOTECHNICAL REPORT IN ORDER TO VERIFY THE FOUNDING MATERIAL, OTHERWISE FOUNDATION AT SITE IS ASSUMED AS H1 CLASS (HIGHLY REACTIVE CLAY). THE FOOTINGS/PIERS SHALL BE BEARING ON ROCK/STIFF CLAY MATERIAL WITH A MINIMUM SAFE BEARING CAPACITY OF 500/300 kPa. IF VIRGIN MATERIAL NOT FOUND THEN CONSULT ENGINEER. PIERS MUST BE PROVIDED AS PER PLAN.



VIEW SWIMMING POOL PLAN AND DETAILS

LEGEND

GROUND FLOOR SLAB NOTES:

1:100
ALL SLABS SHALL BE WAFFLE PODS IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN SPECIFICATIONS, BUT NOT LESS THAN 100 SLAB THICKNESS WITH 400 DEEP EDGE & INTERNAL BEAMS.
25 MPa MINIMUM CONCRETE STRENGTH, TYPICAL UNLESS NOTED OTHERWISE.
PODS SHALL BE 1090 x 1090 MAX., WITH 110 MIN WIDE INTERNAL BEAMS, UNO.
SLAB REINFORCEMENT SHALL BE SL82 MESH TOP (30 COVER) MINIMUM WITH EXTRA BARS AS NOTED ON SECTIONS AND DETAILS.
2-N12 (1200 LONG) TRIMMERS TOP SHALL BE LOCATED AT ALL RE-ENTRANT CORNERS, TYPICAL UNO.
REINFORCEMENT COVER TO GROUND FLOOR SLAB SHALL BE AS FOLLOWS:
40mm - TO UNPROTECTED GROUND
40mm - EXTERNAL EXPOSURE
30mm - TO A MEMBRANE IN CONTACT WITH GROUND
30mm - INTERNAL EXPOSURE
BORED PIERS SHALL BE SETOUT AS SHOWN ON PLAN & INSTALLED IN ACCORDANCE WITH NOTE.

GRENERAL GROUND PIER NOTES (UNLESS NOTED OTHERWISE)					
TYPE	DIAMETER Ø	f _c =MPa (UNO)	SPACING (mm)	MIN. BEARING	DEPTH
CONCRETE BORED PIERS	400	25	1800	VERY STIFF CLAY (300 kPa)	MAX. 2000mm OR 1000mm OF FILL
REINFORCED CONCRETE PIERS: 5N16 + R10-300 HELICAL TIES	400	25	1800	VERY STIFF CLAY (300 kPa)	> 2000mm OR >1000mm OF FILL OR CLASS P SITE

NOTE: IF PIERS NOT NOMINATED TO BE REINFORCED ON PLAN USE TABLE ABOVE. ALL PIERS MUST BE LOCATED AT EVERY CORNER JUNCTION. ALL PIERS MUST BE UNIFORM AND STABLE THROUGHOUT, IF ROCK IS PRESENT ALL PIERS ARE TO BE FOUNDED ON ROCK THROUGHOUT WITH A MINIMUM SAFE END BEARING OF 600 kPa.

REINFORCEMENT COVER SCHEDULE

MEMBER	COVER (mm)			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
INTERNAL SLAB	30mm	30mm	30mm	A1
EXTERNAL SLAB	40mm	40mm	40mm	A1

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	f _c
SLAB ON GROUND	80mm	20mm	A	25 MPa
FOOTINGS/PIERS	80mm	20mm	A	25 MPa

North Coast of NSW
Reference: 240074/01
Date: 10/01/2024
Nicole Wilcox
Accredited Engineer
NCC

DENOTES START POINT FOR LAYING OF WAFFLE PODS

DENOTES HEIGHT OF STEP DOWN IN SLAB

DENOTES 400 DIAMETER CONCRETE PIER TO ROCK/STIFF CLAY (PIERS MAY BE REINFORCED)

2-N12 (750 SPACING 1200 LONG) TRIMMERS TOP SHALL BE LOCATED 50 FROM ALL RE-ENTRANT CORNERS, TYPICAL

DENOTES FULL 300 DEEP WAFFLE POD

DENOTES CUT 300 DEEP WAFFLE POD

DENOTES FULL 225 DEEP WAFFLE POD

DENOTES CUT 225 DEEP WAFFLE POD

30mm TILE SETDOWN

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REV.	DESCRIPTION	DESIGNED	APPROVED	DATE
A	ISSUED FOR C.C.	M.H.	M.H.	13.05.2024

CLIENT SANTOLO BUILDING DESIGN

PROJECT ADDRESS 43 ORWELL STREET, BLACKTOWN

SHEET TITLE GROUND FLOOR WAFFLE SLAB PLAN

JOB NUMBER 24061

SCALE A3

DRAWING NO. S01

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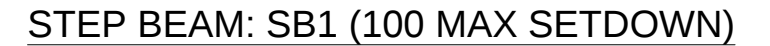
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SCALE 1:20



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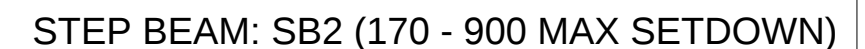
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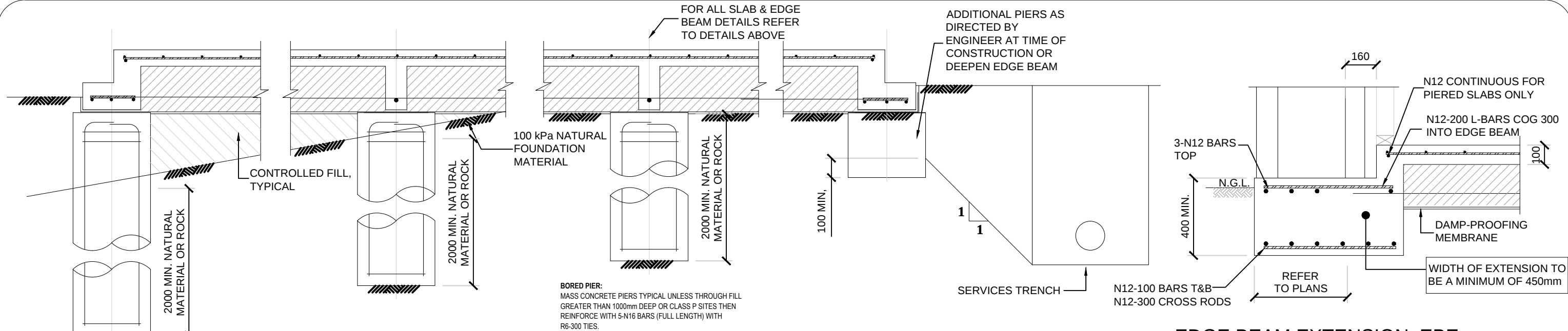
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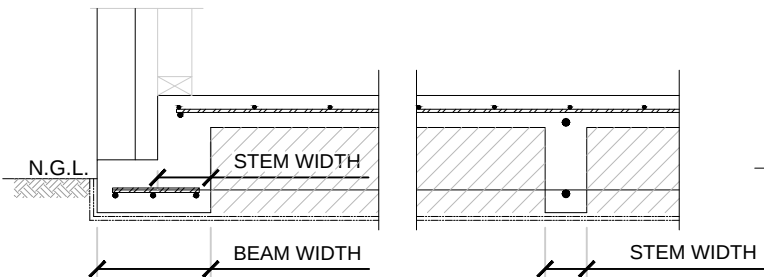


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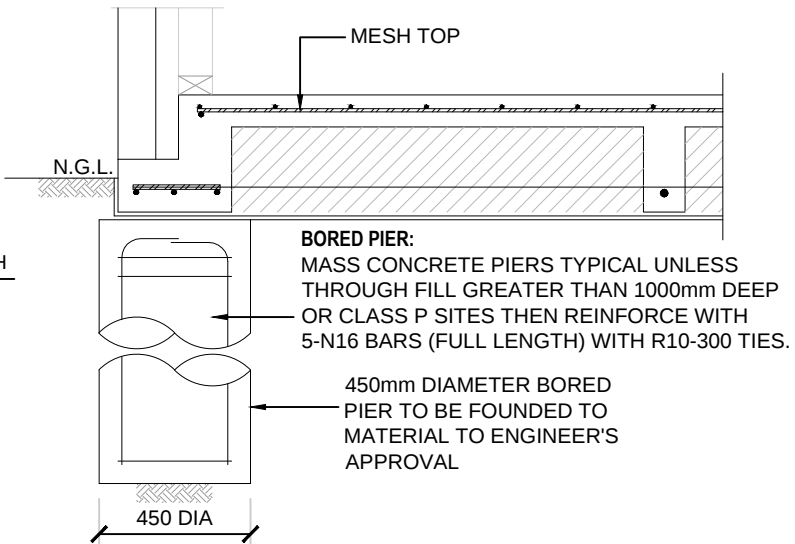


TYPICAL BEAM FOUNDATION DETAILS

SCALE 1:20

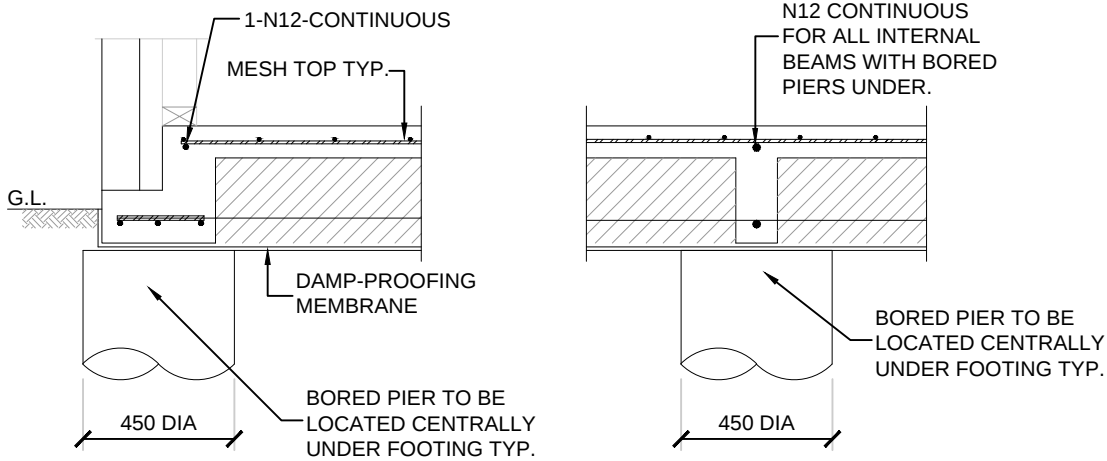


ADDITIONAL STEEL FOR EDGE & INTERNAL BEAMS		
STEM WIDTH OR BEAM WIDTH	TOP STEEL (STEM WIDTH) (No. N12 BARS)	BTM STEEL (BEAM WIDTH) (No. N12 BARS)
110 TO 150	0	1
151 TO 220	1	2
221 TO 330	2	3
331 TO 440	3	4



BORED PIER DETAIL

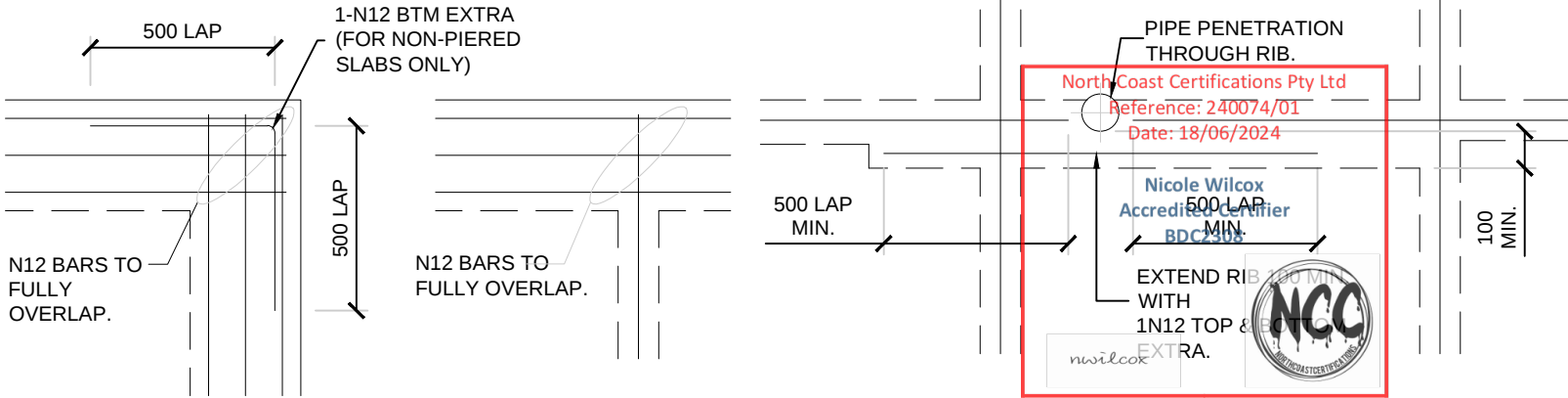
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EDGE BEAM DETAIL INTERNAL BEAM DETAIL

TYPICAL BEAM AT BORED PIER DETAIL

SCALE 1:20



WAFFLE POD CORNER DETAILS

SCALE 1:20

WAFFLE POD DETAILS AT PENETRATION

SCALE 1:20

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CLIENT SANTOLO BUILDING DESIGN

PROJECT ADDRESS
43 ORWELL STREET,
BLACKTOWN

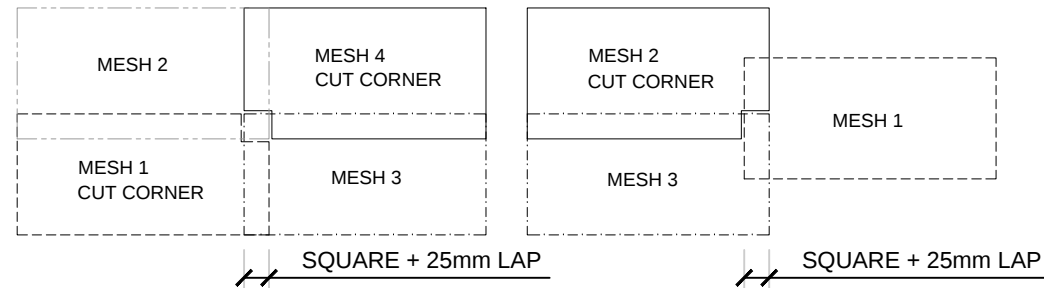
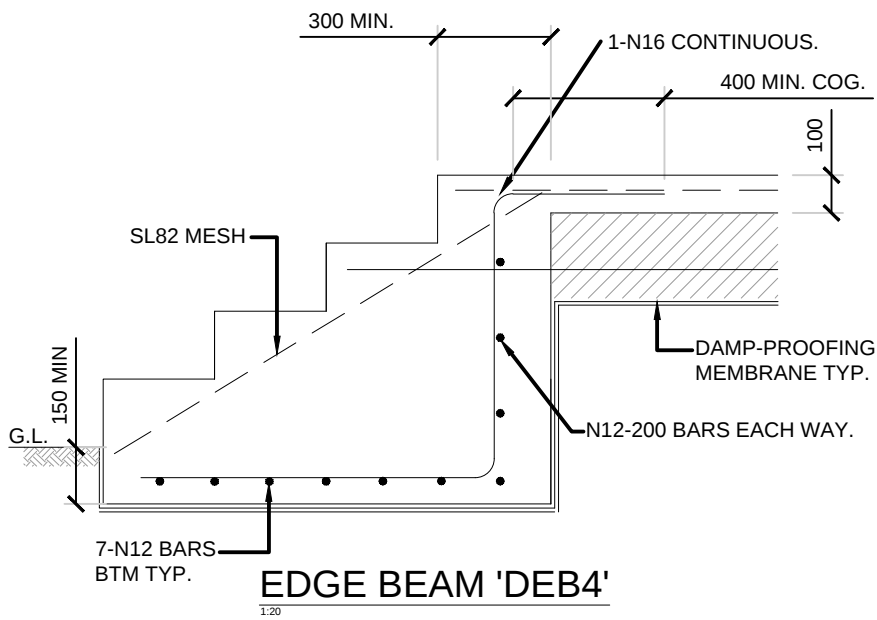
SHEET TITLE
WAFFLE POD SECTIONS & DETAILS

JOB NUMBER
24061

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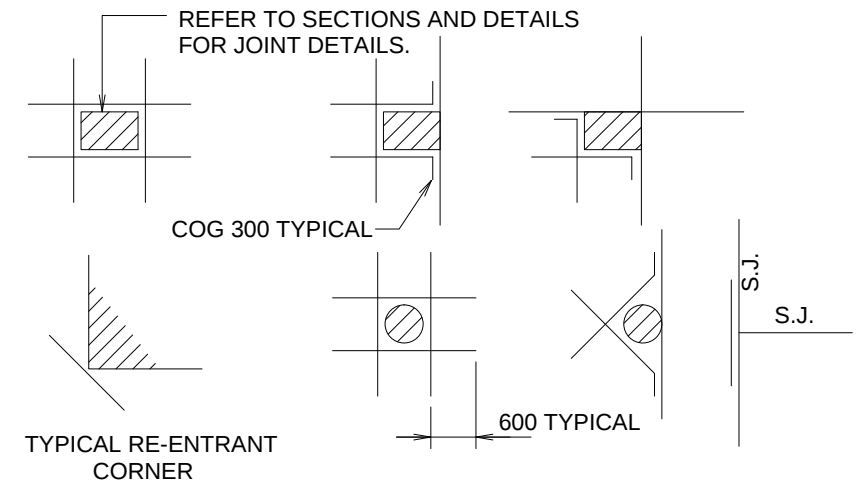
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MESH IN SLAB ON GROUND LAPPING DETAIL

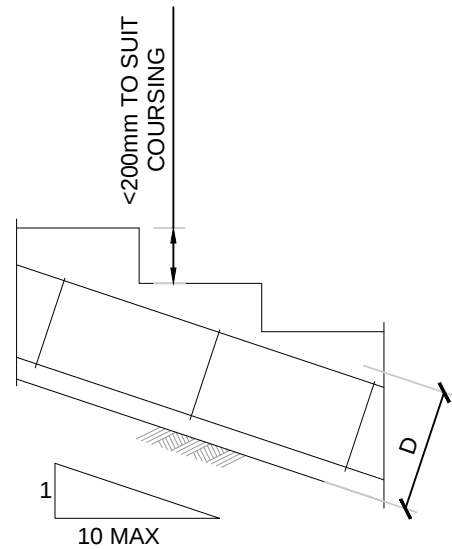
ALL MESH LAPS TO COMPLY WITH CONSTRUCTION NOTES



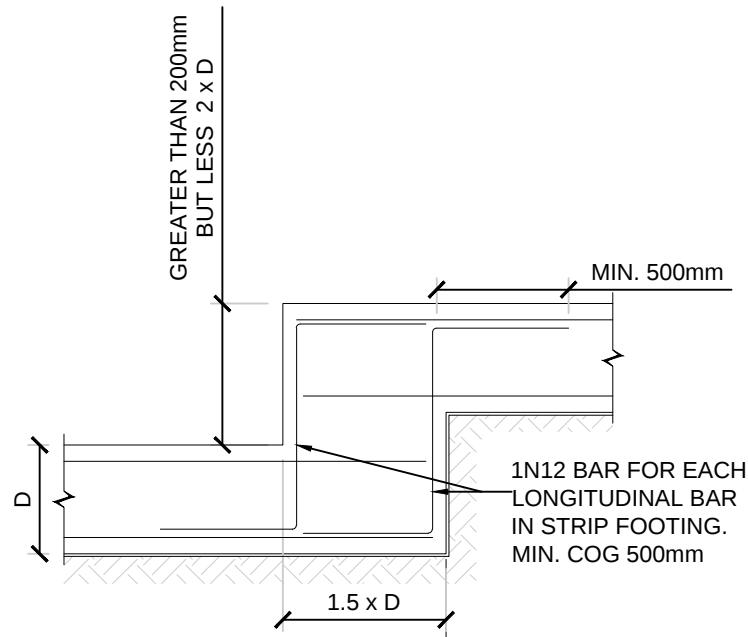
SLAB ON GROUND TRIMMER DETAILS

SLAB ON GROUND - ALL TRIMMERS TO BE 2N12 TOP U.N.O.

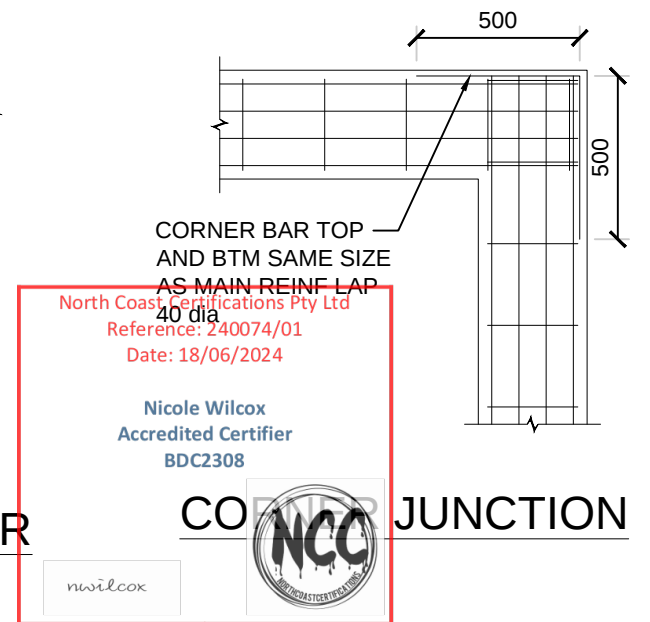
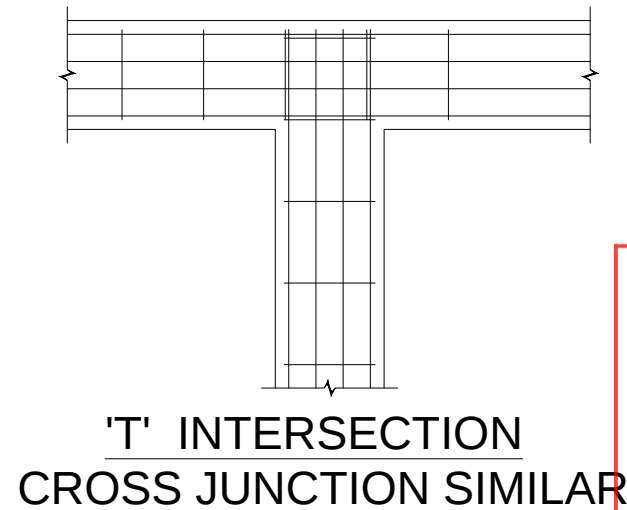
AT ALL COLUMNS, WALLS, PITS, FLOOR WASTES, ETC THAT CAUSE A PENETRATION THROUGH THE SLAB.



STEP - GENTLE SLOPES



FOOTING STEP DETAILS



MR. MATTHEW LUKE HINDI
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REV.	DESCRIPTION	DESIGNED	APPROVED	DATE
A	ISSUED FOR C.C.	M.H.	M.H.	13.05.2024

CLIENT SANTOLO BUILDING DESIGN

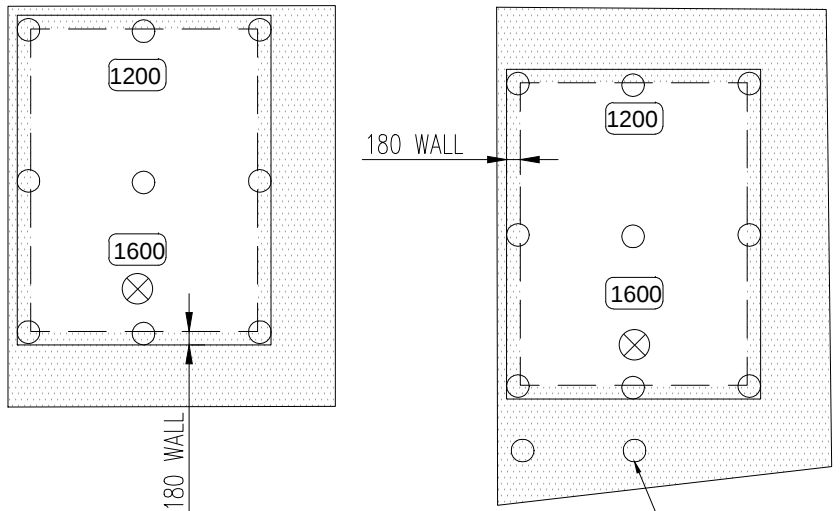
PROJECT ADDRESS
43 ORWELL STREET,
BLACKTOWN

SHEET TITLE
SLAB & FOOTING DETAILS

JOB NUMBER
24061

SCALE
A3

DRAWING NO.
S04



LEGEND

	COPING
	POOL DEPTH
	H.R.VALVE
	Ø300 CONCRETE PIER

POOL PLAN

SCALE: 1:50

NOTES:

- DESIGN SUITABLE FOR CLASS M SITE CLASSIFIED UNDER AS2870-1996
- SUPPORTING FOUNDATION MATERIAL TO BE A MINIMUM STIFF CLAY or SAND OF UNIFORM MOISTURE CONTENT WITH SAFE BEARING CAPACITY OF 300 kPa. (POOL BASE TO BE FOUND INTO VIRGIN MATERIAL.)
- IF POOL IS TO BE FOUND IN 'H' CLASS MATERIAL, DROPPERS ARE TO BE PROVIDED RIGHT AROUND POOL.
- TYPICAL WALL & FLOOR REINFORCEMENT TO BE S12-300 IN EACH DIRECTION. WHERE POOL WALL EXTENDS MORE THAN 600mm ABOVE UNDISTURBED SUBSOIL (300Kpa MATERIAL) AND/OR WHERE DEPTH OF EXCAVATION IN OTHER THAN ROCK EXCEEDS MORE THAN 1500mm, PROVIDE ADDITIONAL DROPPERS (S12-300 VERTICAL TO BE 450mm FROM TOP OF WALL & 1200mm INTO BASE OF POOL.)
- PROVIDE AN EXPANSION JOINT BETWEEN THE SWIMMING POOL STRUCTURE AND ANY OTHER STRUCTURE SUCH AS CONCRETE WALKWAYS, FOOTING, ETC

CONCRETE QUALITY FOR POOLS

LOCATION	f _c
STANDARD IN GROUND	32 MPa
IN GROUND - WITHIN ONE KILOMETRE OF SEA	32 MPa
MORE THAT 400mm OUT OF GROUND	32 MPa
MORE THAT 400mm OUT OF GROUND - WITHIN ONE KILOMETRE OF SEA	40 MPa
SALINE: LESS THAN 16 dS/M (ECe)	32 MPa
SALINE: MORE THAN 16 dS/M (ECe)	40 MPa

GENERAL

- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURALS (SETOUT, LEVELS, FALLS ETC.).
- WRITTEN DIMENSIONS TO BE TAKEN IN REFERENCE TO SCALE.
- SKIMMER TO BE POSITIONED BY BUILDER.
- STEP & FILTER LOCATION TO BE DISCUSSED WITH CLIENTS DURING CONSTRUCTION
- PLUMBING IS TO BE IN ACCORDANCE WITH WRITTEN RECOMMENDATIONS OF FILTER MANUFACTURER.
- THIS DRAWING IS A STANDARD SPECIFICATION: ITEMS SHOWN ARE INCLUDED ONLY WHEN INDICATED IN CONTRACT.
- PLANS ARE ONLY APPROVED WHEN BEARING AN ORIGINAL SIGNATURE OF THE ENGINEER.
- POOL SETOUT ONSITE TO BE CONFIRMED WITH OWNER BEFORE COMMENCING TO DIG.
- POOL FENCE AS PER APPROVAL DOCUMENTS TO BE 1200 HIGH CHILD SAFETY POOL FENCE AND SELF (LATCHING) CLOSING GATE TO AS1926-86 BY OTHERS (NOTE: POOL FENCING IS OWNER'S RESPONSIBILITY.)

CONCRETE AND REINFORCEMENT NOTES

- CONCRETE TO HAVE A MINIMUM DESIGN STRENGTH OF F_{CD} = 25 MPa AT 28 DAYS (32MPa WHERE WITHIN ONE KILOMETRE OF SEA OR OUT OF GROUND) USING 10mm MAXIMUM AGGREGATE SIZE (POOL MIX) SLUMP 75MM. ADDITIVES NOT PERMITTED WITHOUT APPROVAL. UPON COMPLETION OF CONCRETING THE HYDROSTATIC VALVE IS TO BE CHECKED TO ENSURE EFFECTIVE AND SUFFICIENT OPERATION
- CONCRETE TO BE CURED BY HOSEING TWICE DAILY FOR SEVEN DAYS SEEK ADDITIONAL ADVICE FOR SITES NOT CONNECTED TO TOWN WATER SUPPLY
- REINFORCEMENT TO BE STRUCTURAL GRADE 250 DEFORMED BAR TO AS1302 LAPPED 450MM AS REQUIRED, TIED SECURELY WITH 1.2MM ANNEALED WIRE AND SHALL BE SUPPORTED ON APPROVED TYPE BAR CHAIRS AT 900MM CENTRES BOTH WAYS
- ALTERNATIVE REINFORCEMENT TO BE TEMCORE BARS IN ACCORDANCE WITH AS 1302 410 Y
- SPLICES IN BOND BEAM BARS SHALL BE STAGGERED
- WATER FACE REINFORCEMENT TO HAVE 65MM CONCRETE COVER REAR FACE REINFORCEMENT HAVE 50MM COVER FROM REAR REAR FACE IF FORMED AND 65MM COVER IS SPRAYED AGAINST GROUND

POOL DESIGN

- WALKWAYS ARE NOT DESIGNED TO SUPPORT MASONRY WALLS UNLESS OTHERWISE NOTED
- DESIGN LIVE LOAD FOR WALKWAYS AND CONCOURSES 3 KPa
- GEOTECHNICAL ENGINEER TO VERIFY THE SAFE BEARING CAPACITY OF FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.
- NOTE POOL IS NOT DESIGNED FOR DIVING.
- DESIGN COMPLIES WITH RELEVANT SECTIONS OF AS3600 AND AS2783 ISSUE 1992 FOR PNEUMATICALLY APPLIED CONCRETE FOR USE IN REINFORCED SWIMMING POOLS.
- NO ALLOWANCE HAS BEEN MADE FOR SURCHARGE LOADING FROM ANY STRUCTURE, UNLESS INDICATED ON PLAN.

CONSTRUCTION NOTES

- WHERE IT IS CONSIDERED THAT GROUND WATER CAN BUILD UP TO A LEVEL 500MM ABOVE THE FLOOR OF THE EXCAVATION ADEQUATE DRAINAGE SHALL BE PROVIDED UNDER THE POOL FLOOR
- PVC PLUMBING PIPES TO BE 50MM FROM STEEL REINFORCEMENT, OR IF TIED TO STEEL REINFORCEMENT TO BE FULLY ENCASED WITH AT LEAST 50MM CONCRETE COVER.
- CONCRETE SIZES SHOWN ARE EXCLUSIVE OF RENDER OR OTHER INTERNAL FINISH AND SHALL NOT BE VARIED OR PENETRATED BY HOLES UNLESS SHOWN ON PLAN OR APPROVED BY ENGINEER.
- PROVIDE 10MM CONTROL JOINTS AT MAXIMUM 3500MM CENTRES AND AT ALL POINTS OF CONTRA-CURVATURE IN PLAN VIEW OF WALKWAY FINISH. PROVIDE 10MM CONTROL AT JUNCTION OF ANY

ADDITIONAL PAVING TO POOL STRUCTURE AND/OR POOL FINISHES.

- TILE PAVEMENTS IN POOL AREA TO BE LAID IN ACCORDANCE WITH AS3958-1 AND AS3958-2.
- PROVIDE 10MM EXPANSION JOINT MATERIAL BETWEEN POOL CONCRETE AND ALL EXISTING RIGID STRUCTURES ON THE SITE INCLUDING BRICK WALLS OF HOUSE, DRIVEWAY SLAB ETC.
- WHERE POOL WALKWAY/COPING LEVEL IS IN PART BELOW ADJOINING GROUND LEVEL, PROVIDE SURFACE CATCH DRAINS AND/OR SUB-SURFACE DRAINS TO DIVERT STORMWATER AND/OR GROUND WATER AWAY FROM POOL

NOTIFY ENGINEER

- STRUCTURAL ENGINEER TO BE NOTIFIED TO INSPECT STEEL PLACEMENT 48 HRS PRIOR TO CONCRETE PLACEMENT. (FEE APPLICABLE AT TIME OF INSPECTION)
- ENGINEER TO BE ADVISED IF EXCAVATION IS IN FILL OR IF EXCESSIVE GROUND WATER IS ENCOUNTER.
- POOL WALLS NOT TO PROJECT MORE THAN 600MM OUT OF GROUND SUPPORTING MATERIAL (AT LEAST 200KPa MATERIAL) OR SEEK ENGINEERING ADVICE.
- IF POOL IN ZONE OF INFLUENCE OF EXISTING STRUCTURE, UNDERPINNING OF MAYBE REQUIRED, ENGINEER TO CONFIRM ON SITE

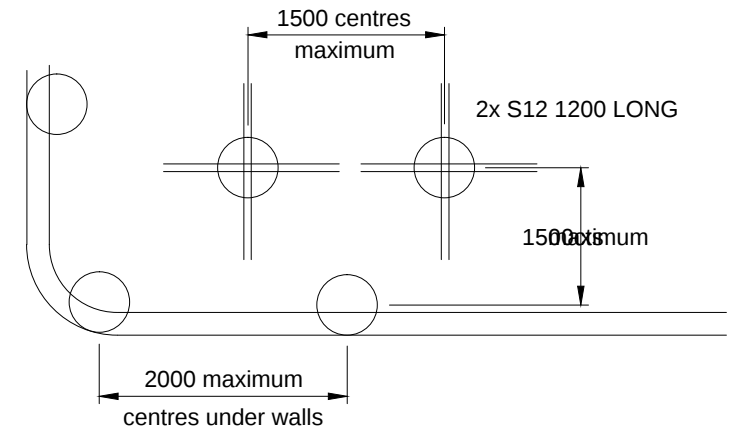
PIERING NOTES (IF REQUIRED):

PIERS REQUIRED IF:

- POOL FOUND IN INADEQUATE STRATA or NON-VIRGIN MATERIAL (IE. FILL)
- BASE OF POOL FOUND IN STRATA THAT REVEALS DISSIMILAR MATERIAL (POOL TO HAVE EVEN BEARING THROUGHOUT)

TYPE OF PIERS TO BE USED WHERE REQUIRED:

- 300Ø PIERS TO ROCK,
- 450Ø PIERS TO STIFF CLAY OF 300Kpa BEARING CAPACITY,
- 600Ø PIERS TO NATURAL GROUND OF 200Kpa BEARING CAPACITY.
- PIER DEEPER THAN 1500mm or OUT OF GROUND, TO BE REINFORCED WITH 6N12 VERTICAL + R10-300 TIES

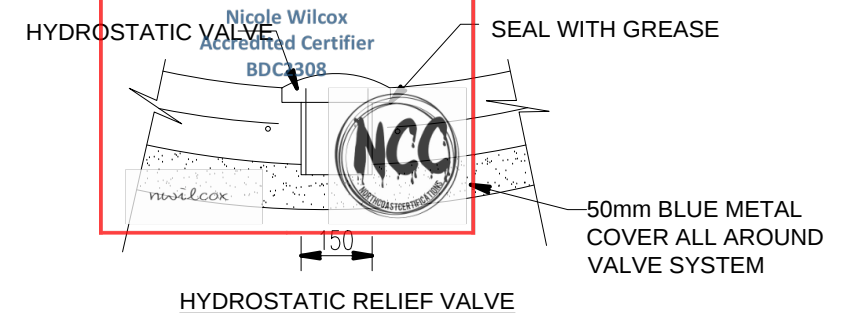


PIER LAYOUT WHERE REQUIRED

SCALE 1:50

Reference: 240074/01

Date: 18/06/2024



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REV.

DESCRIPTION

DESIGNED

APPROVED

DATE

CLIENT

SANTOLO BUILDING DESIGN

SHEET TITLE

SWIMMING POOL PLAN

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A ISSUED FOR C.C.

M.H.

M.H.

13.05.2024

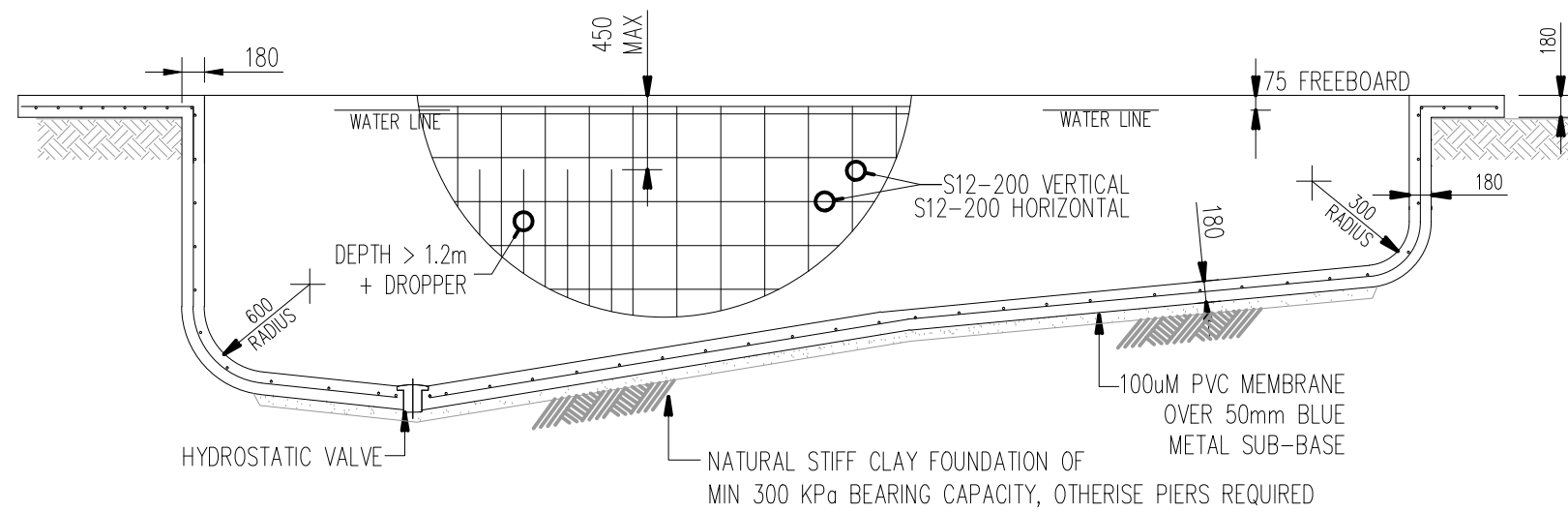
PROJECT ADDRESS

43 ORWELL STREET,
BLACKTOWN

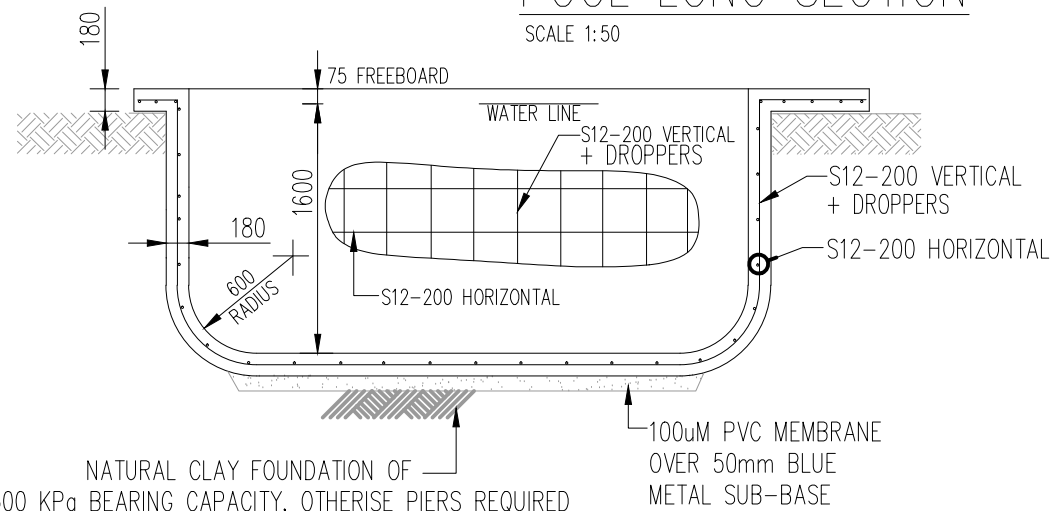
JOB NUMBER
24061

SCALE
A3

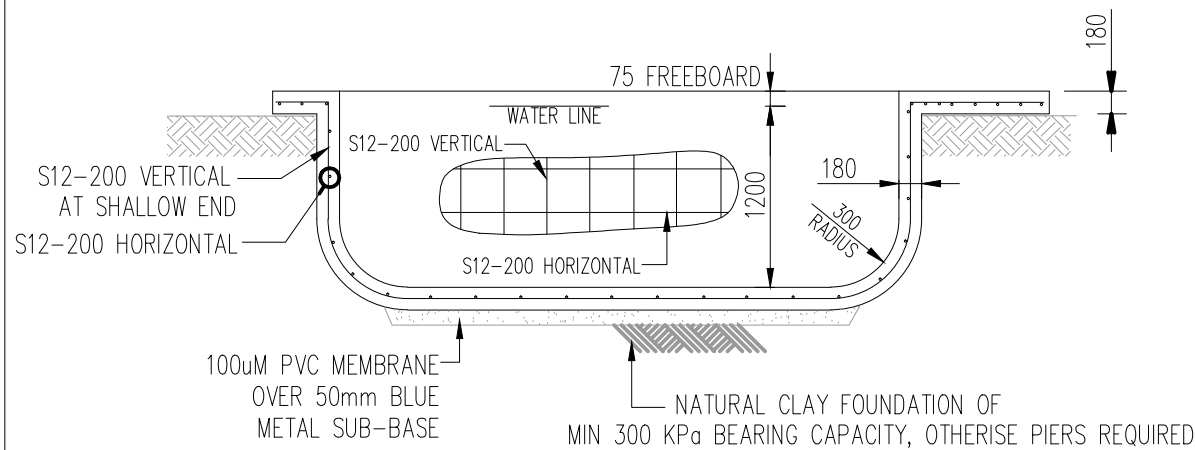
DRAWING NO.
S05



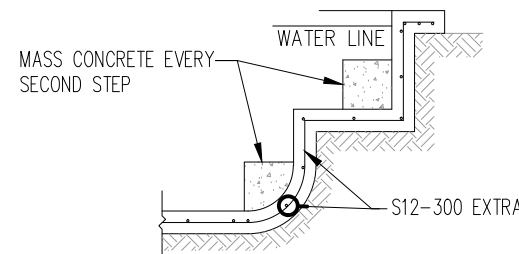
POOL LONG SECTION
SCALE 1:50



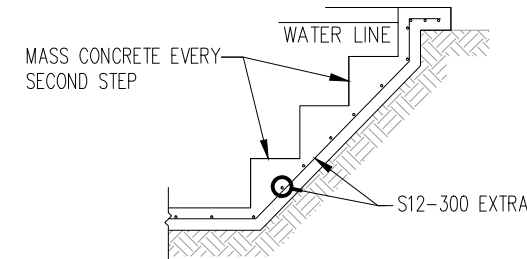
POOL SHORT SECTION AT DEEP END
SCALE 1:50



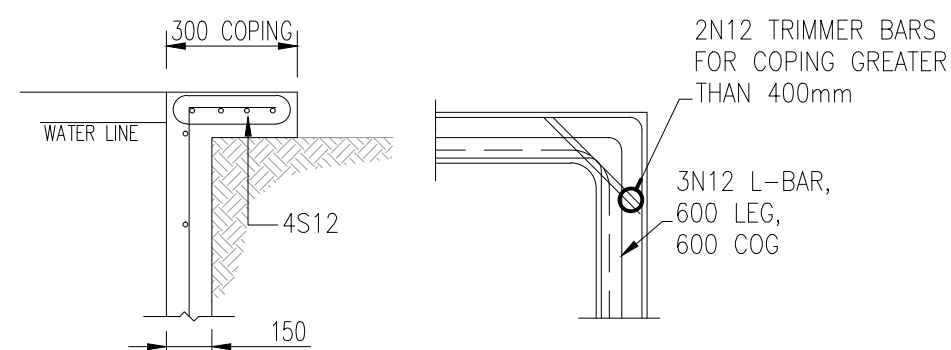
POOL SHORT SECTION AT SHALLOW END
SCALE 1:50



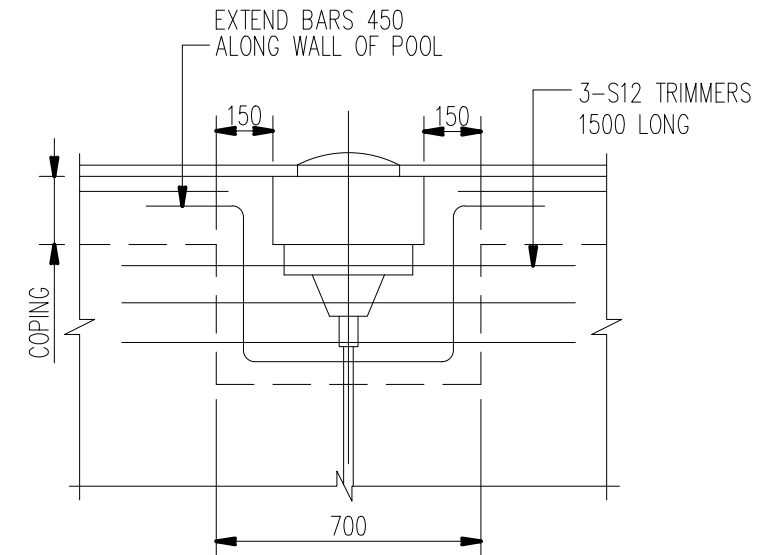
STEP & BENCH SECTION
SCALE 1:50



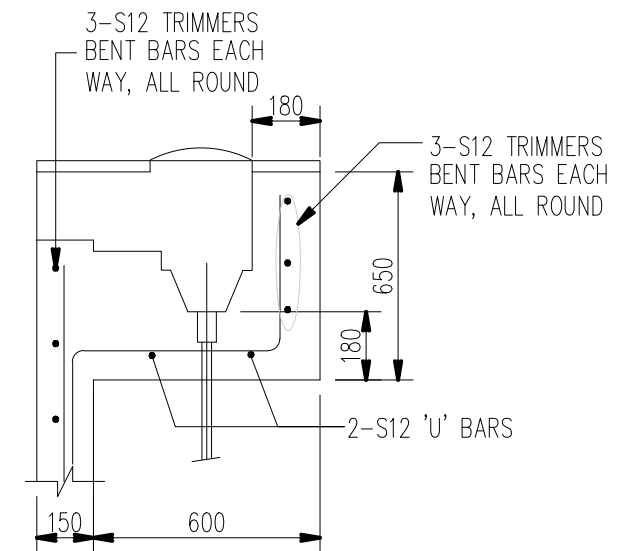
STEP SECTION
SCALE 1:50



COPING (BOND BEAM) DETAIL



ELEVATION



SECTION SKIMMER BOX DETAIL
SCALE 1:20

- NOTE:
- LOCATION TO SUIT PUMP MANUFACTURER'S SPECIFICATION
 - ALL PVC PIPE TO BE MIN 50mm FROM STEELWORK, UNLESS FULLY ENCASED IN 50mm CONCRETE COVER
 - SKIMMER BOX & OUTLET SYSTEMS TO COMPLY WITH AS1926.3



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CLIENT SANTOLO BUILDING DESIGN

PROJECT ADDRESS
43 ORWELL STREET,
BLACKTOWN

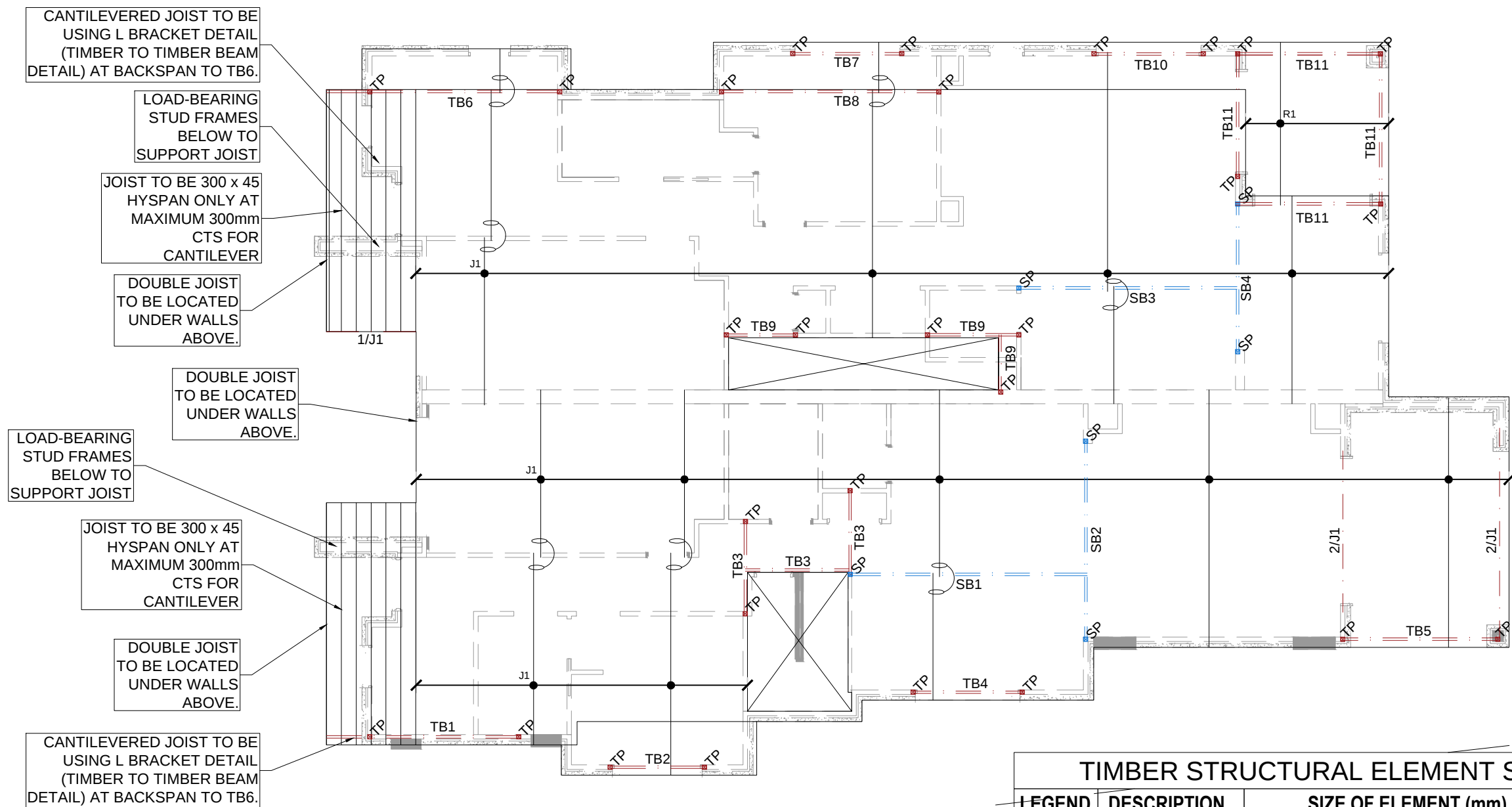
SHEET TITLE
SWIMMING POOL DETAILS

JOB NUMBER
24061

SCALE
A3

DRAWING NO.
S06

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FIRST FLOOR FRAMING PLAN

1:100

STEEL AND TIMBER FRAMING NOTES:

- ALL EXPOSED STEEL BEAMS MUST BE PRESSURE GALVANIZED (AS4100).
- IF ANY DETAILS AND/OR SECTIONS ARE NOT GIVEN ON PLAN, BUILDER MUST CONFIRM WITH ENGINEER DURING CONSTRUCTION.
- ALL STEEL FRAMING TO BE IN ACCORDANCE TO AS4100
- ALL EXPOSED TIMBER TO BE PRESSURE TREATED ACCORDING TO AS1684
- CARPENTERS MUST BUILD ROOF STRUCTURE IN ACCORDANCE TO AS1684
- ALL STEEL & TIMBER BEAMS MUST HAVE A MINIMUM BEARING OF 250mm UNO.

STEEL STRUCTURAL ELEMENT SCHEDULE			
LEGEND	DESCRIPTION	SIZE OF ELEMENT (mm)	NOTES
SP	STEEL POST	89 x 89 x 6 SHS	-
SB1	STEEL BEAM	250 UB 31.4	-
SB2	STEEL BEAM	250 PFC	-
SB3	STEEL BEAM	250 UB 31.4	-
SB4	STEEL BEAM	250 PFC	-

TIMBER STRUCTURAL ELEMENT SCHEDULE			
LEGEND	DESCRIPTION	SIZE OF ELEMENT (mm)	NOTES
TP	TIMBER POST	90 x 90 HARDWOOD	-
TB1	TIMBER BEAM	2/300 x 45 HYPAN	-
TB2	TIMBER BEAM	2/140 x 45 HYPAN	-
TB3	TIMBER BEAM	170 x 45 HYPAN	-
TB4	TIMBER BEAM	2/140 x 45 HYPAN	-
TB5	TIMBER BEAM	2/240 x 45 HYPAN	-
TB6	TIMBER BEAM	2/300 x 45 HYPAN	-
TB7	TIMBER BEAM	2/140 x 45 HYPAN	-
TB8	TIMBER BEAM	2/300 x 63 HYPAN	-
TB9	TIMBER BEAM	2/140 x 45 HYPAN	-
TB10	TIMBER BEAM	2/170 x 45 HYPAN	-
TB11	TIMBER BEAM	2/240 x 45 HYPAN	-
J1	TIMBER JOIST	240 x 63 HYPAN @ 450 CTS	-
R1	TIMBER RAFTER	140 x 45 HYPAN @ 600 CTS	-

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CLIENT SANTOLO BUILDING DESIGN

PROJECT ADDRESS
43 ORWELL STREET,
BLACKTOWN

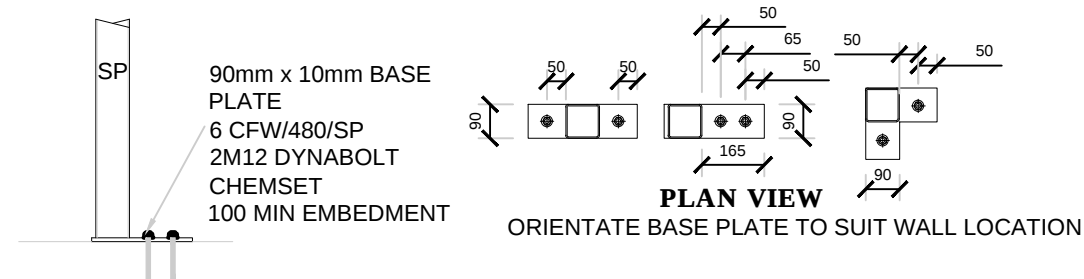
SHEET TITLE
FIRST FLOOR FRAMING PLAN

JOB NUMBER
24061

SCALE
A3

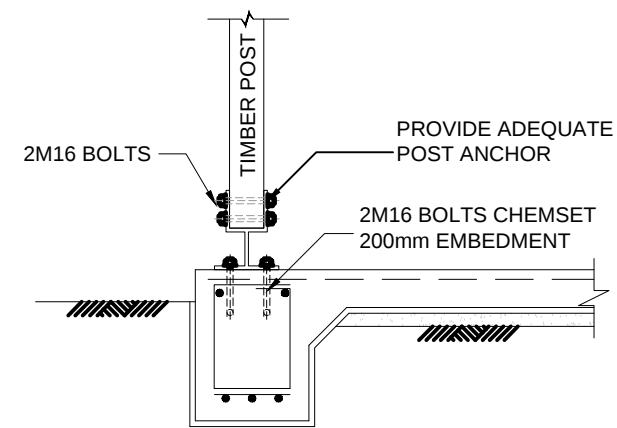
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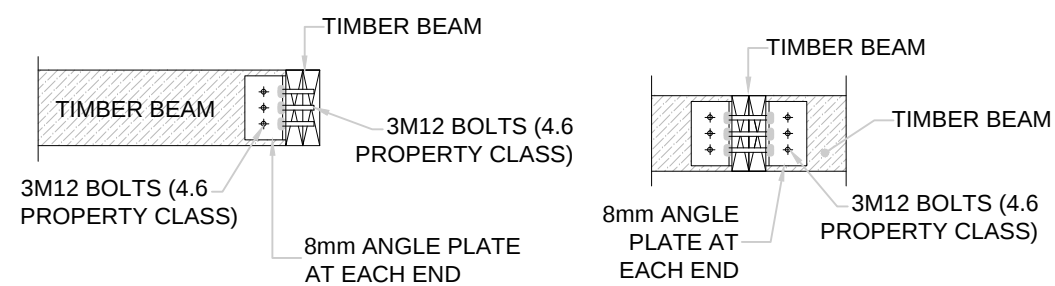
STEEL POST BASE TO CONCRETE FOOTING DETAIL

SCALE 1:20



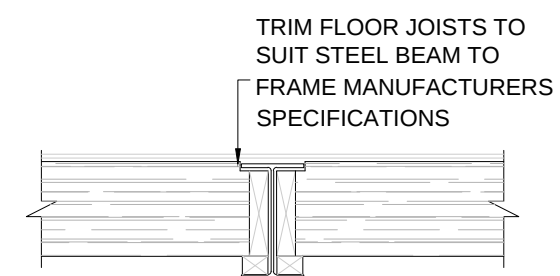
TIMER POST CONNECTION DETAIL

SCALE 1:20



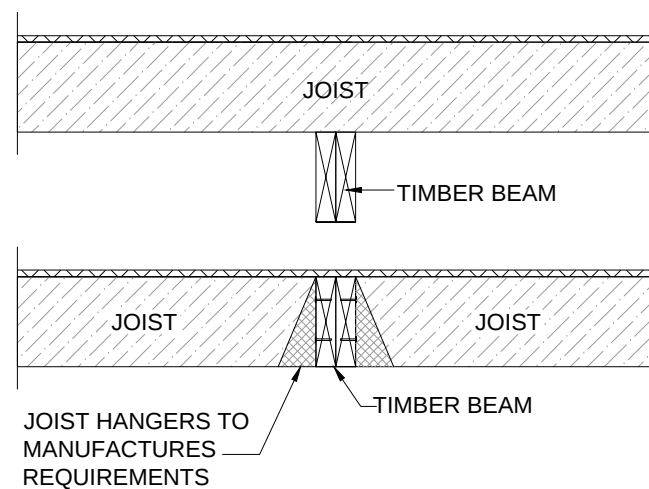
TIMER BEAM TO TIMBER BEAM CONNECTION

SCALE 1:20



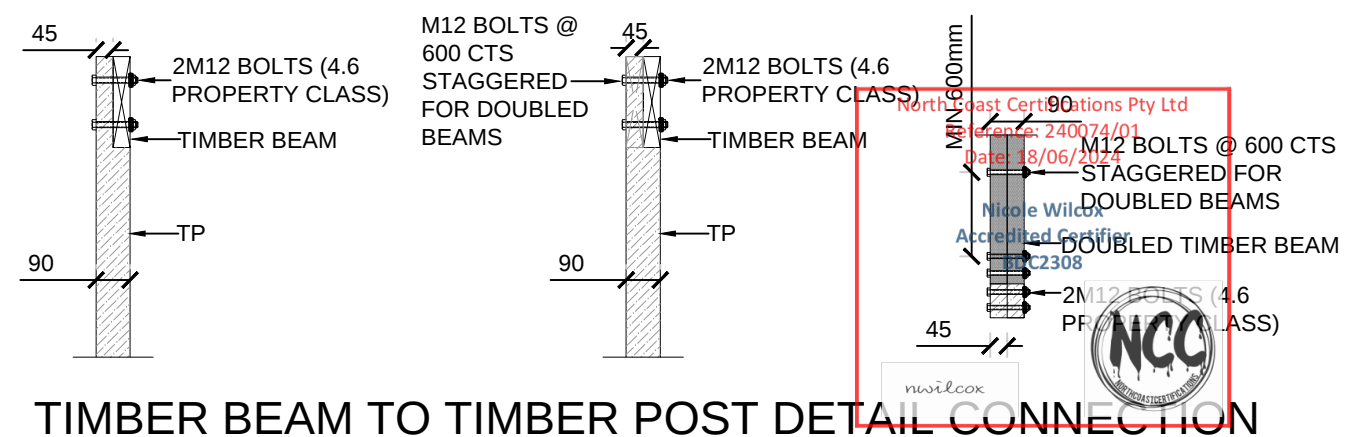
TYPICAL JOIST TO STEEL BEAM CONNECTION DETAIL

SCALE 1:20



TYPICAL JOIST TO BEAM DETAIL

SCALE 1:20



TIMBER BEAM TO TIMBER POST DETAIL CONNECTION

SCALE 1:20

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CLIENT SANTOLO BUILDING DESIGN

PROJECT ADDRESS
43 ORWELL STREET,
BLACKTOWN

SHEET TITLE

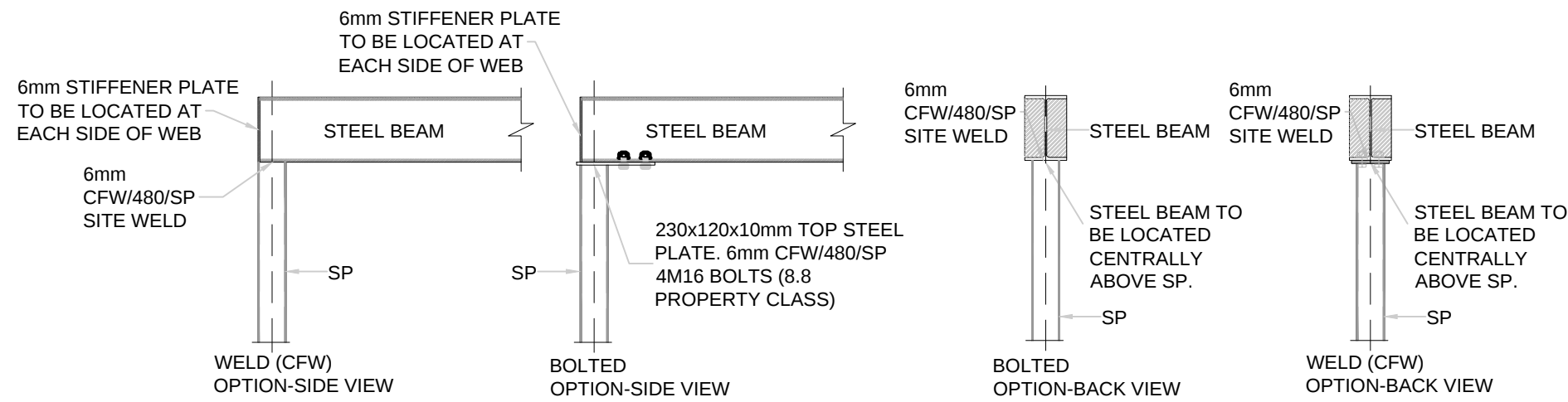
FIRST FLOOR DETAILS

JOB NUMBER
24061

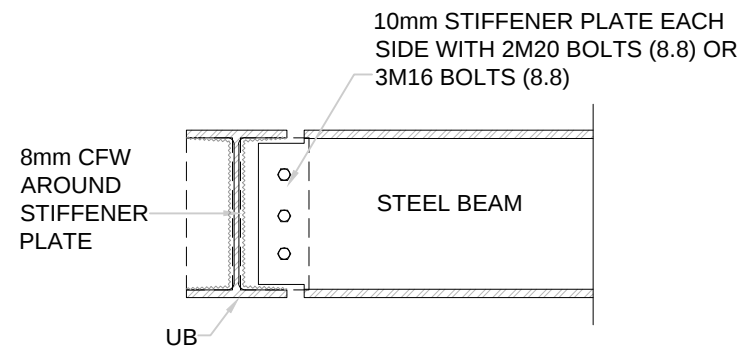
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DRAWING NO.
S08

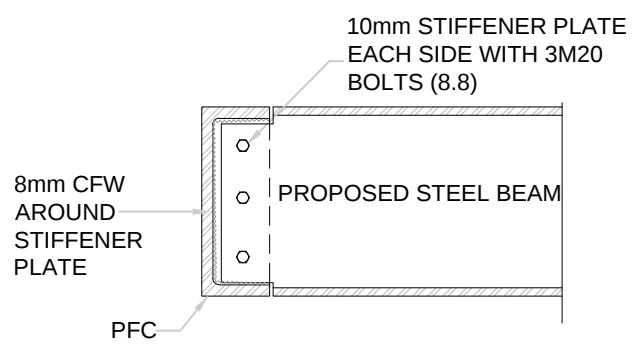
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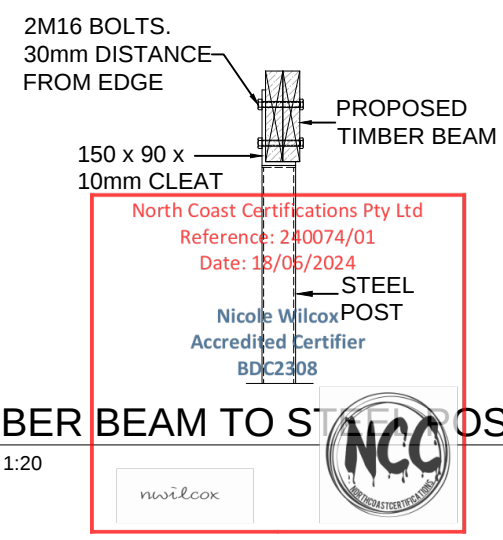
STEEL BEAM TO STEEL POST DETAIL CONNECTION
SCALE 1:20



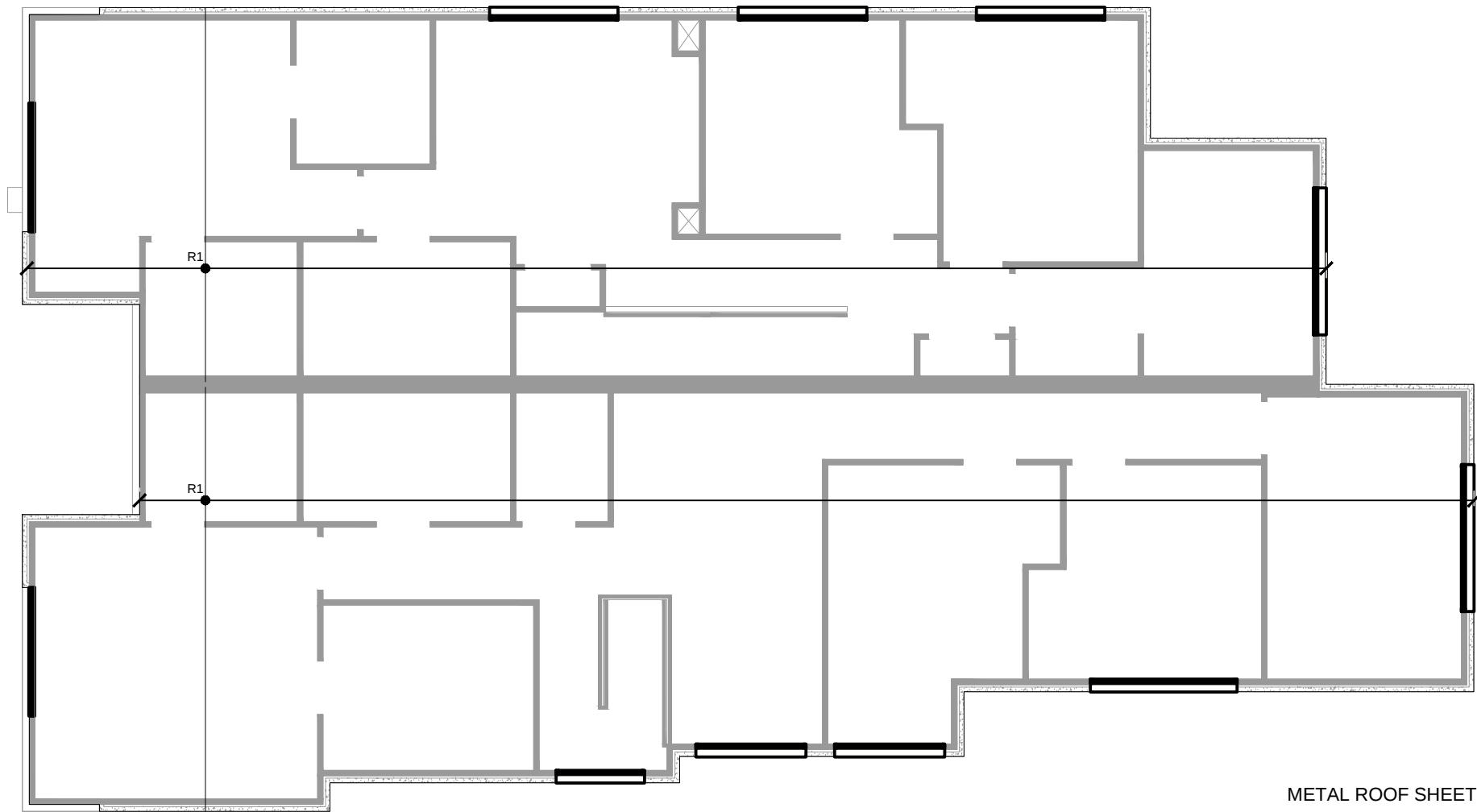
UB TO STEEL BEAM CONNECTION
SCALE 1:20



PFC TO STEEL BEAM CONNECTION
SCALE 1:20



TIMBER BEAM TO STEEL POST DETAIL
SCALE 1:20



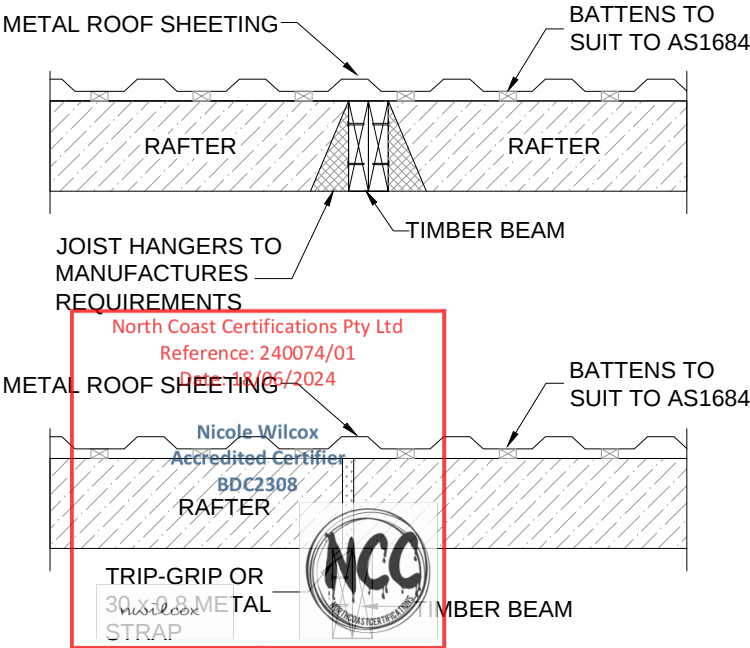
ROOF FRAMING PLAN

1:100

TIMBER FRAMING NOTES:

- ALL EXPOSED STEEL BEAMS MUST BE PRESSURE GALVANIZED (AS4100).
- IF ANY DETAILS AND/OR SECTIONS ARE NOT GIVEN ON PLAN, BUILDER MUST CONFIRM WITH ENGINEER DURING CONSTRUCTION.
- ALL STEEL FRAMING TO BE IN ACCORDANCE TO AS4100
- ALL EXPOSED TIMBER TO BE PRESSURE TREATED ACCORDING TO AS1684
- CARPENTERS MUST BUILD ROOF STRUCTURE IN ACCORDANCE TO AS1684
- ALL STEEL & TIMBER BEAMS MUST HAVE A MINIMUM BEARING OF 250mm UNO.

TIMBER STRUCTURAL ELEMENT SCHEDULE			
LEGEND	DESCRIPTION	SIZE OF ELEMENT (mm)	NOTES
R1	TIMBER RAFTERS	240 x 45 HYPAN @ 600 CTS	-



TYPICAL RAFTER TO BEAM DETAIL

SCALE 1:20

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		A	ISSUED FOR C.C.	M.H.	M.H.	13.05.2024	PROJECT ADDRESS	43 ORWELL STREET, BLACKTOWN		FIRST FLOOR DETAILS	
							JOB NUMBER 24061	SCALE A3	DRAWING NO. S10		

Date: 12th June 2024

Our Reference: 24061.EAC1

STRUCTURAL DESIGN CERTIFICATE

PROJECT: NEW DEVELOPMENT

SITE ADDRESS: 43 ORWELL STREET BLACKTOWN

RE: C.C. SUBMISSION FOR STRUCTURAL DRAWINGS

Elite Australian Engineering Pty Ltd hereby advise that we are responsible and certify the structural design and documentation for the proposed development mentioned above.

The structural design of the building is in accordance with the provisions of the Building Code of Australia, relevant DA consent conditions and the relevant Australian Standards such as:

- AS1170.1 Loading Code (2002 Part 1, 2011 Part 2)
- AS3600 Concrete Structures Code (2018)
- AS3700 Masonry Structures code (2001)
- AS2870 Residential Slabs & Footings Code (2011)
- AS4100 Steel Structures Code (1998)
- AS1684 Timber Framing Code (2010)

We at Elite Australian Engineering Pty Ltd certify that the design on the structural drawings with the project number 24061, Revision A, dated 12.06.2024 complies with above.

Signed,



Matthew Luke Hindi

B.Eng Dip Eng Prac MIEAust NER (4268215)

Registered Professional Engineer (PRE0001261)

Registered Design Practitioner (DEP0001826)

Builders License No. 331352C

Director

North Coast Certifications Pty Ltd
Reference: 240074/01
Date: 18/06/2024

Nicole Wilcox
Accredited Certifier
BDC2308

nwilcox

