

GENERAL NOTES:

- DEAD AND LIVE LOADS ARE IN ACCORDANCE WITH AS1170
- CONCRETE DESIGN IN ACCORDANCE WITH AS3600.
- WIND BRACING DESIGN IN ACCORDANCE WITH AS1684.2-2010
- CONCRETE FOOTING STRENGTH F'C = 25MPa SLUMP = 75MM AND AGGREGATE SIZE = 20MM.
- DESIGN OF SLAB AND FOOTINGS IS IN ACCORDANCE WITH AS2870-2011, RESIDENTIAL SLABS & FOOTINGS.
- ALL FOOTINGS ARE TO BE FOUNDED ON NATURAL GROUND OF AT LEAST 100 KPA BEARING CAPACITY. IF OTHER CONDITIONS ARE MET, ENGINEER IS TO BE NOTIFIED AND DESIGN CONFIRMED.
- NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWING SHALL BE MADE IN THE CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CORRECT SUBTERRANEAN TERMITE CONTROL PROCEDURES ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS3660.1.
- ROOF AND OTHER SURFACE WATER SHALL BE DIRECTED AWAY FROM THE FOOTINGS AND TO A DISPOSAL POINT NOMINATED BY LOCAL COUNCIL.
- MAINTENANCE OF FOUNDATIONS IN ACCORDANCE WITH CSIRO GUIDELINES.
- IF ANY SITE CONDITIONS ARE ENCOUNTERED THAT ARE CONTRARY TO THE ENGINEERS REPORT OR ANY DETAILS THAT ARE NOT UNDERSTOOD, PLEASE CONTACT THIS OFFICE FOR CLARIFICATION.
- DIMENSIONS SHALL BE USED IN PREFERENCE TO SCALING FROM DRAWINGS.
- ALL WORKS ARE TO BE SET OUT AND CONFIRMED PRIOR TO CONSTRUCTION. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL SETDOWNS, FLOOR LEVELS AND DIMENSIONING ARE IN ACCORDANCE WITH THE ARCHITECTURALS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURALS AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS GIVEN BOTH BEFORE AND DURING CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER BEFORE UNDERTAKING THE WORK.
- DESIGN LOADS ARE AS FOLLOWS
 - DEAD LOADS - DOMESTIC
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SAA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS.
- THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION THROUGHOUT CONSTRUCTION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE IMPLEMENTED BY THE BUILDER TO THE KEEP THE WORKS AND EXCAVATION STABLE AT ALL TIMES.
- ALL SERVICES ARE TO BE LOCATED IN THE FIELD IN CONJUNCTION WITH AN OFFICER OF THE RELEVANT AUTHORITY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- DETAILS CONTAINED WITHIN THESE PLANS INDICATE THE MINIMUM STRUCTURAL REQUIREMENTS AS SPECIFIED BY THIS OFFICE AND MAY NOT REPRESENT CODE AND STANDARD REQUIREMENTS OUTSIDE OF STRUCTURAL CONSIDERATION. BUILDER IS TO ENSURE FULL COMPLIANCE WITH ALL APPLICABLE CODES AND PRACTICES FOR THE PROPOSED DEVELOPMENT.

CONCRETE NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING
- ALL REINFORCING SHALL BE FIRMLY SUPPORTED ON CHAIRS AT NO GREATER THAN 800 CRS BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING REINFORCING, AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS BY SUITABLY EXPERIENCED CONTRACTORS
- SLAB TO BE POURED IN COOL CONDITIONS WITH LIGHT WINDS
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY MOIST FOR A PERIOD OF THREE DAYS AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY GRADUAL DRYING. ALTERNATIVELY CURING COMPOUNDS COMPLYING WITH AS3799-1998 MAY BE USED.
- PROVIDE 0.2MM DAMP PROOF MEMBRANE UNDER ALL SLABS U.N.O.
- ALL FOOTINGS SHALL BE INSPECTED BY SUPERVISING ENGINEER OR RELEVANT CERTIFIER PRIOR TO POURING OF CONCRETE. CONCRETE SHALL NOT BE DELIVERED TO THE SITE UNTIL FINAL APPROVAL IS OBTAINED.
- ALL BARS SHALL BE LAPPED BY 500MM MINIMUM.
- IF USING POLISHED CONCRETE;
 - MIX TO BE LOW SHRINKAGE 32MPa SPECIAL MIX (MAX 600 MICROSTRAIN) U.N.O.
 - MESH TO BE A MINIMUM OF SL81 U.N.O.
- FOR CLASS M, H1, H2 AND E SITES ALL DRAINS ATTACHED TO OR EMERGING FROM UNDERNEATH THE BUILDING SHALL INCORPORATE FLEXIBLE JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING WITHIN 1 M OF THE BUILDING PERIMETER TO ACCOMMODATE A TOTAL RANGE OF DIFFERENTIAL MOVEMENT IN ANY DIRECTION EQUAL TO THE BELOW VALUES. THIS REQUIREMENT APPLIES TO ALL STORMWATER AND SANITARY PLUMBING DRAINS AND DISCHARGE PIPES.
 - M - 40MM

STEEL NOTES:

- ALL STEELWORK SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554
- UNLESS OTHERWISE NOTED, FILLET WELDS SHALL BE 7MM MIN THROAT THICKNESS EXECUTED IN ACCORDANCE WITH AS1554.1
- ALL BOLTS SHALL BE GALVANISED M16 GRADE 8.8/S TO AS1252 UNLESS OTHERWISE NOTED
- ALL BASE PLATES AND GUSSET PLATES SHALL BE 10MM UNLESS OTHERWISE STATED.
- THE BUILDER SHALL BE RESPONSIBLE FOR THE DIMENSION CONTROL OF ALL STEELWORK. CHECK BEFORE PROCEEDING.
- SPLICES IN MEMBERS SHALL NOT BE MADE UNLESS APPROVAL IS OBTAINED BEFOREHAND.
- SURFACE PRERPARATION IN ACCORDANCE WITH AS1627.
- PROTECTIVE COATING FOR STEEL EXPOSED TO ATMOSPHERIC CORROSION IS TO COMPLY WITH AS2312 AND GALVANIZED STRUCTURAL SECTIONS ARE TO COMPLY WITH AS4680 WITH A MINIMUM COATING OF 600G/SQ.M.
- ALL EXTERNAL STEEL TO BE HOT DIP GALVANISED OR PAINTED TO AN EQUIVILANT STANDARD.
- SITE WELDING SHALL BE KEPT TO A MINIMUM AND SHALL BE CARRIED OUT IN SUCH A FASHION AS TO MAINTAIN THE INTEGRITY OF THE STRUCTURE.
- ALL WASHERS, NUTS ETC SHALL BE GALVANISED.
- IT IS OUR UNDERSTANDING THAT THE MAJORITY OF STEELWORK SHALL BE FABRICATED IN A SHOP AND TRANSPORTED TO SITE FOR ERECTION. FINAL DIMENSIONS ARE TO BE OBTAINED FROM ARCHITECTURALS IN COMBINATION WITH SITE MEASUREMENTS. DO NOT SCALE FROM THESE PLANS, USE GIVEN DIMENSIONS.
- IF IN DOUBT SEEK ADVICE OF SUPERVISING ENGINEER PRIOR TO COMMENCEMENT OF WORK

SAFETY IN DESIGN ASSESSMENT

POTENTIAL HAZARD	DETAIL OF HAZARD	INITIAL RISK	RISK REDUCTION MEASURES	FINAL RISK
NA	NA	NA	NA	NA

- STRUCTURE A-TYPICAL, NO DESIGN HAZARDS IDENTIFIED

POOL NOTES

FOUNDATIONS

- THE POOL HAS BEEN DESIGNED TO BE CONSTRUCTED IN FIRM GROUND OR CERTIFIED COMPACTED FILL WITH A MINIMUM SAFE BEARING CAPACITY OF 100 KPA.
- A 100MM GRAVEL/CRUSHED STONE DRAINAGE LAYER IS TO BE PROVIDED TO THE UNDERSIDE OF THE POOL WERE SOILS ARE NOT FREE DRAINING (EG: CLAY).
- THE POOL IS NOT TO BE CONSTRUCTED IN HIGHLY EXPANSIVE CLAYS, OR UNSUITABLE, NON-UNIFORM MATERIALS. IT IS THE POOL BUILDERS RESPONSIBILITY TO ENSURE THE ABOVE CONDITIONS ARE ADHERED TO.

POOL EMPTYING/FILLING

- THE POOL SHALL NOT BE FILLED FOR AT LEAST 14 DAYS AFTER THE CONCRETE HAS BEEN SPRAYED.
- THE POOL IS TO BE EQUIPPED WITH A PRESSURE RELIEF VALVE TO SAFEGUARD AGAINST POSSIBLE FLOTATION DUE TO EXTERNAL WATER PRESSURE WHEN THE POOL IS EMPTIED.
- TO MAINTAIN STRUCTURAL INTEGRITY, ADVICE FROM POOL BUILDER OR OTHER SUITABLY QUALIFIED SOURCE SHOULD BE SOUGHT PRIOR TO THE EMPTYING OF THE POOL.
- POOL IS DESIGNED FOR NON-AGGRESSIVE WATER. SHOULD SALT WATER BE USED THE CONCENTRATION OF NACL MUST BE LESS THAN 10000MG/L

CONSTRUCTION

- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH AS2783-1992, THE STANDARD BUILDING CODES
- CONCRETE STRENGTH IS TO BE 40 MPA AT 28 DAYS AND IS TO BE PLACED IN ONE CONTINUOUS POURING OPERATION. DESIGN ENGINEERS ARE TO BE NOTIFIED SHOULD AN INTERRUPTION OCCUR.
- MATERIALS AND WORKMANSHIP ARE TO COMPLY WITH THE REQUIREMENTS OF AS1480.
- ALL REINFORCEMENT TO BE LAPPED 500MM MIN U.N.O AND WIRE TIED AT EVERY 2ND INTERSECTION UNO.
- REINFORCEMENT TO BE CHAIRED AT 800MM MAXIMUM CRS EACH WAY.
- CONCRETE COVER TO BE AS PER DETAILS.
- WATER PROOFING SHALL BE AN APPROVED PRODUCT AND METHOD TO POOL BUILDERS SPECIFICATION.

WIND CATEGORY = N3 (VH,U = 50 M/S)
SITE CLASSIFICATION SOIL TEST BY ASCT DATED 07/10/20 CLASS "P" SITE PROBLEM SITE DUE TO -LOW BEARING CAPACITY

DURABILITY REQUIREMENTS	INTERNAL OR BELOW GROUND	EXTERNAL & ABOVE GROUND
	A1	B2
CONCRETE GRADE	25MPa	40MPa
POLISHED CONCRETE	S32MPa	
COVER CAST AGAINST GROUND	40mm	60mm
COVER CAST IN FORMS	30mm	45mm

BLOCKWORK/RETAINING WALL NOTES

- BLOCKWORK SHALL NOT BE CONSTRUCTED TO A HEIGHT GREATER THAN 2400mm PRIOR TO GROUTING. CLEAN-OUT BLOCKS SHALL BE PROVIDED IN ALL CORES AT BOTTOM COURSE OF EACH FILLED LIFT.
- NO CHASES OR HOLES SHALL BE MADE WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- ALL BLOCKWORK, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS 3700. BLOCKS SHALL BE 'AS' SERIES WITH A CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF 15 MPa.
- ALL 140 BLOCKWORK THAT IS TO BE CORE FILLED AND REINFORCED SHALL BE 'H' BLOCKS.
- MORTAR SHALL BE MADE BY MECHANICAL MIXERS IN ACCORDANCE WITH AS 3700 IN THE FOLLOWING PROPORTIONS BY VOLUME OF TYPE GP PORTLAND CEMENT : HYDRATED LIME : PIT SAND.
 - BELOW DAMP PROOF COURSE - 1:1/4:3 (M4)
 - ABOVE DAMP PROOF COURSE - 1:1:6 (M3)
- HOLLOW BLOCKS SHALL HAVE A FULL FACE-SHELL BED OF MORTAR. SOLID BLOCKS SHALL BE FULLY BEDDED IN MORTAR. BED JOINTS AND PERPENDS SHALL NOT BE RAKED.
- ALL NON-LOADBEARING WALLS SHALL BE BUILT TO WITHIN 20mm OF SLAB SOFFITS AND HAVE THE VOID, SO FORMED, FILLED WITH A SUITABLE COMPRESSIBLE FILLER.
- ALL WALLS SHALL BE BONDED OR TIED AT THEIR INTERSECTIONS, UNLESS DETAILED OTHERWISE.
- GROUT FOR FILLED MASONRY SHALL HAVE:
 - F'c = 20 MPa
 - MAXIMUM AGGREGATE SIZE = 6mm
 - MINIMUM CEMENT CONTENT OF 300 kg/m³.
 - SLUMP 230 +/- 30mm.
- GROUT FILLING SHALL BE THOROUGHLY RODDED USING A PLAIN ROUND BAR.
- CONTROL JOINTS TO BE LOCATED AT MAXIMUM 8.0m CENTRES UNLESS NOTED OTHERWISE. CONFIRM JOINT LOCATIONS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 300MM WIDTH OF GRAVEL BACKFILL TO BE PLACED BEHIND RETAINING WALL, WITH A CONTINUOUS AGG. PIPE LOCATED AT THE BASE OF THE WALL. THE DRAIN SHOULD EITHER DISCHARGE AT SOME POINT BEYOND THE WALL ENDS (WITHOUT EFFECTING OTHER FOOTINGS) OR BE CONNECTED TO A STORMWATER DRAIN. WHERE EXCESSIVE GROUNDWATER EXISTS, A DRAIN SHOULD BE PLACED AT THE MID HEIGHT OF THE WALL.
- TANKING IS REQUIRED TO BE INSTALLED ON THE EARTH SIDE OF THE WALLS.
- INSTALL A LAYER OF GEOFABRIC BETWEEN THE DRAINAGE GRAVEL AND CUT SOIL FACE BEHIND ALL RETAINING WALLS.



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CLIENT:
S&J TOBIN

SITE ADDRESS:
**13 REDGUM PLACE
SUFFOLK PARK**

PROJECT:
ALTERATIONS & ADDITIONS

TITLE:
NOTES

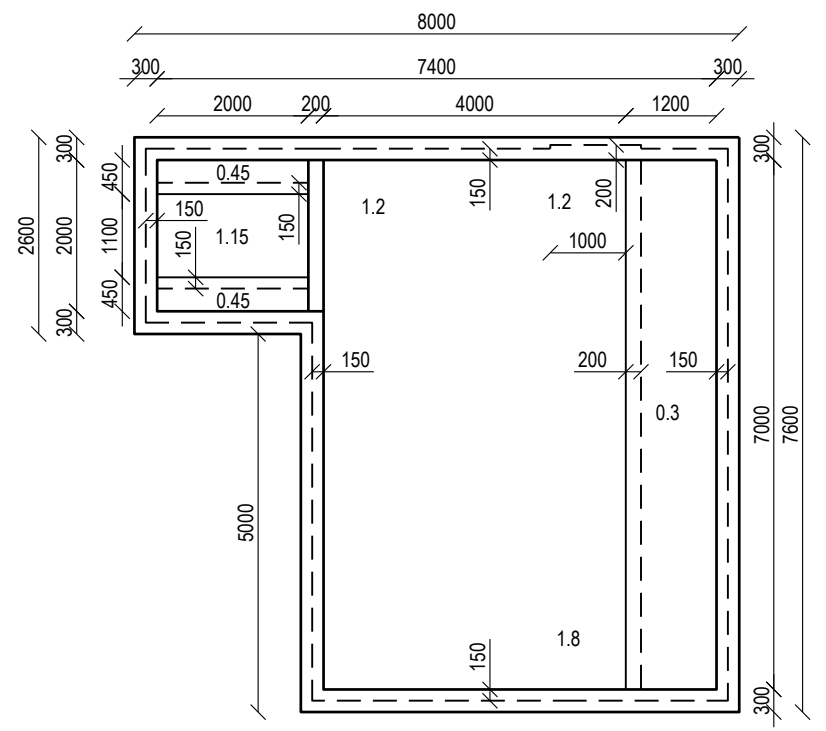
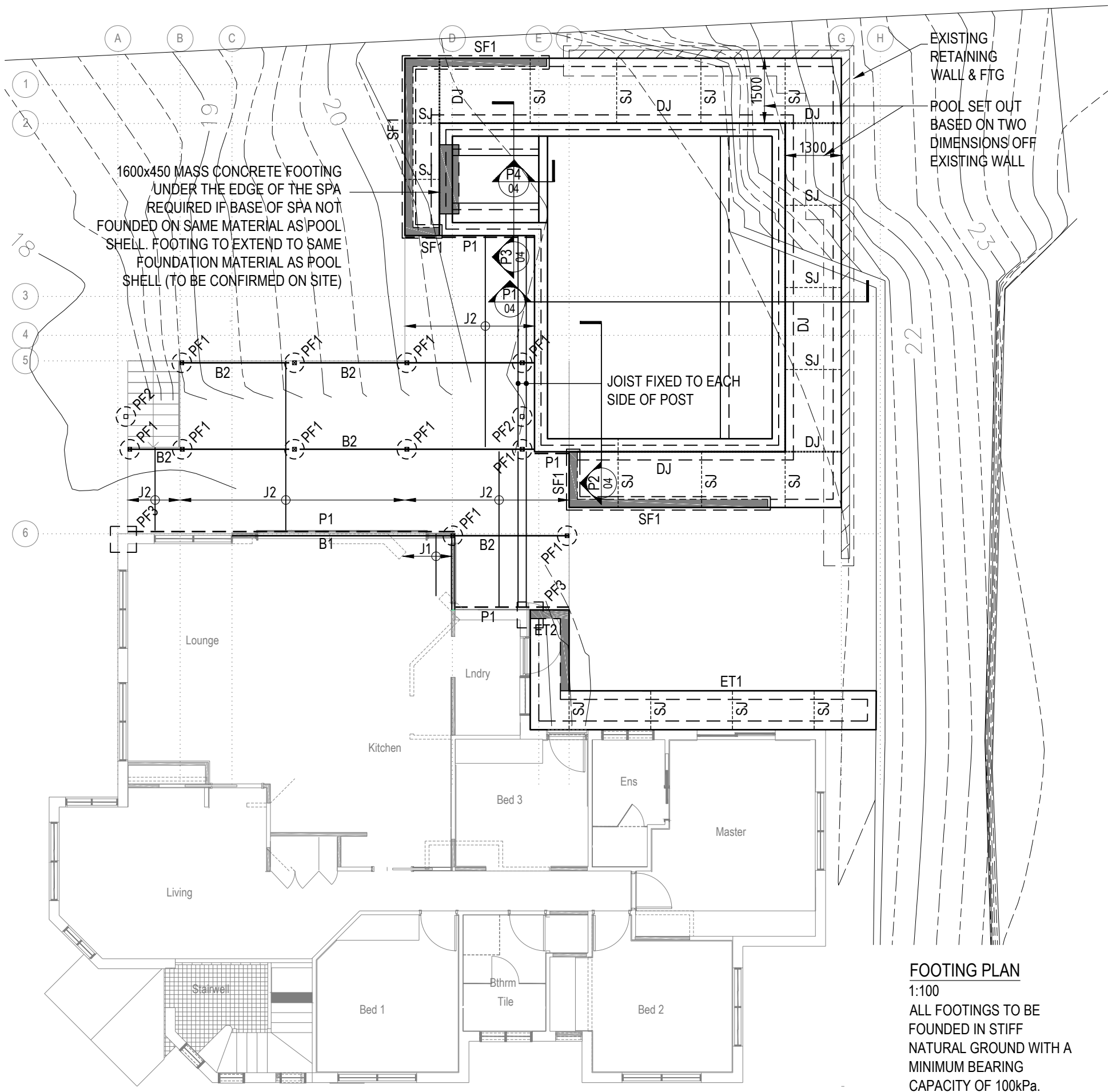
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NO. IN SET: **01 of 06**

JOB NUMBER: **21204**
DRAWING NUMBER: **21204 ST01**

CHECKED:

Anthony Mallam
ANTHONY MALLAM, BE(CIVIL) ENGS,
MIEAust, CPEng, RPEQ 6987

REV	DESCRIPTION	BY	DATE
0	CONSTRUCTION ISSUE	AM	22/12/20



POOL PLAN
1:100

POOL PROFILE INCLUDING COPING,
STEPS & DEPTHS TO BE CONFIRMED
PRIOR TO CONSTRUCTION

FOOTING PLAN
1:100
ALL FOOTINGS TO BE
FOUNDED IN STIFF
NATURAL GROUND WITH A
MINIMUM BEARING
CAPACITY OF 100kPa.

FRAMING SCHEDULE

B1	-2/90x42 LVL15
B2	-190x45 F27 KD HWD
P1	-120x45 F27 KD HWD
J1	-90x42 LVL15
J2	-125x50 F17 HWD@450



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PROJECT:
ALTERATIONS & ADDITIONS

TITLE:
**FOOTING & FRAMING PLAN &
DETAILS SHEET 1**

SIZE:
A3

JOB NUMBER:
21204

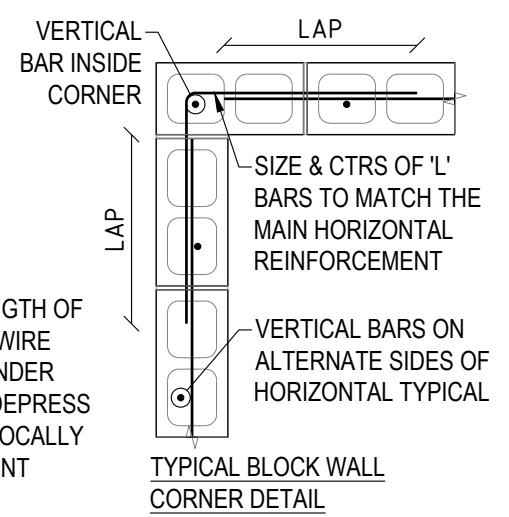
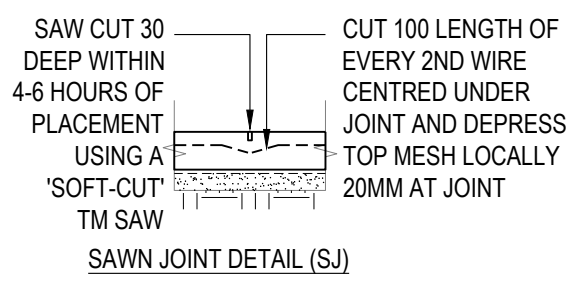
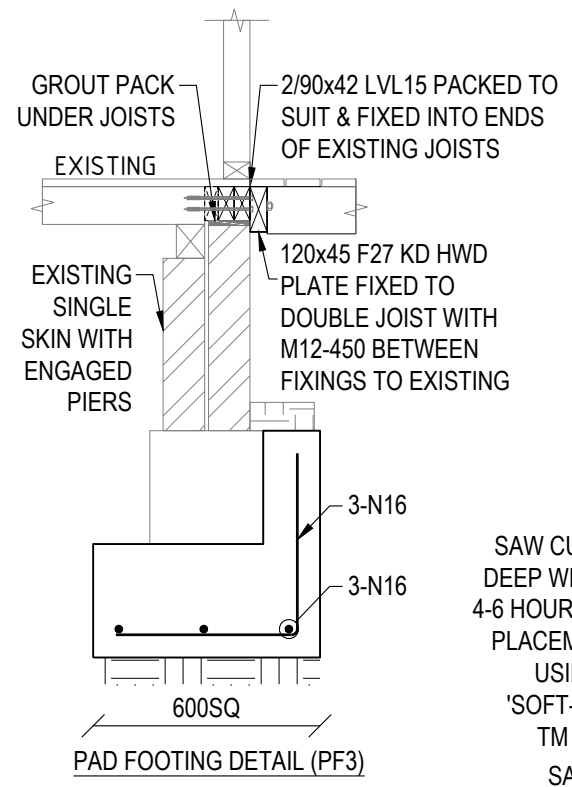
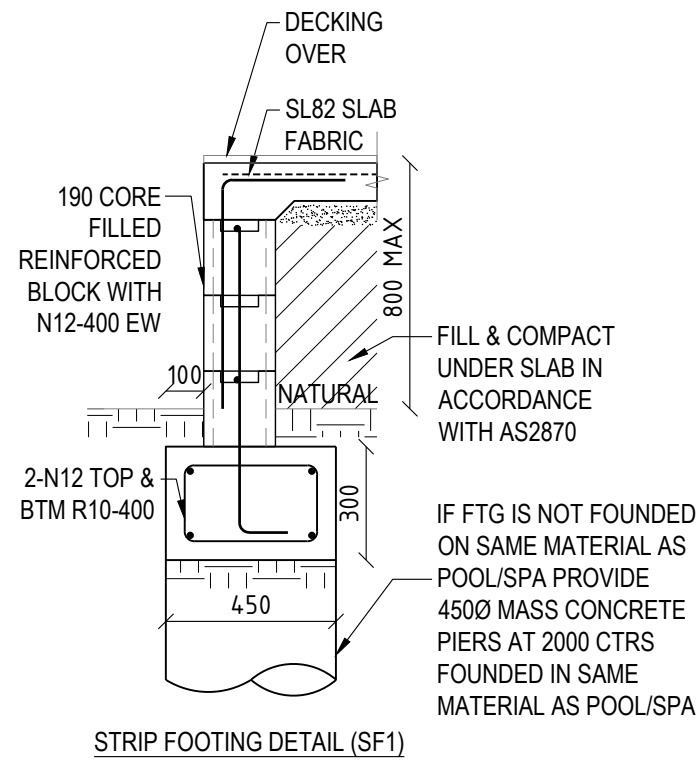
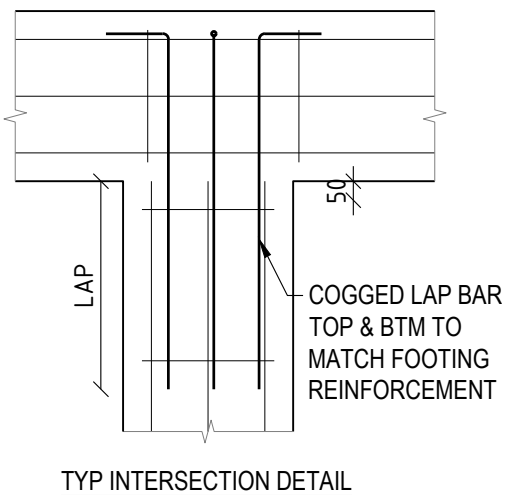
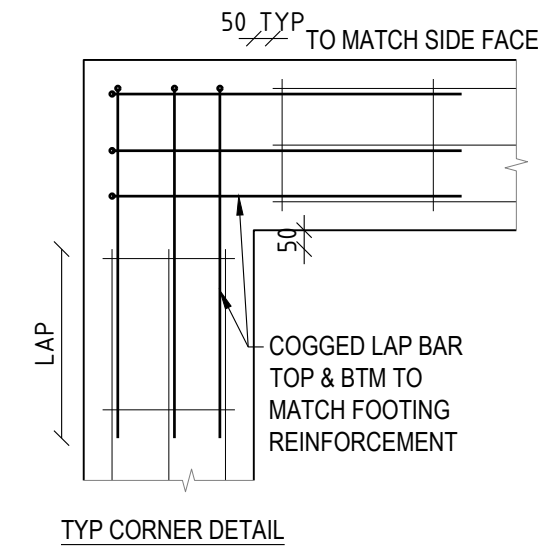
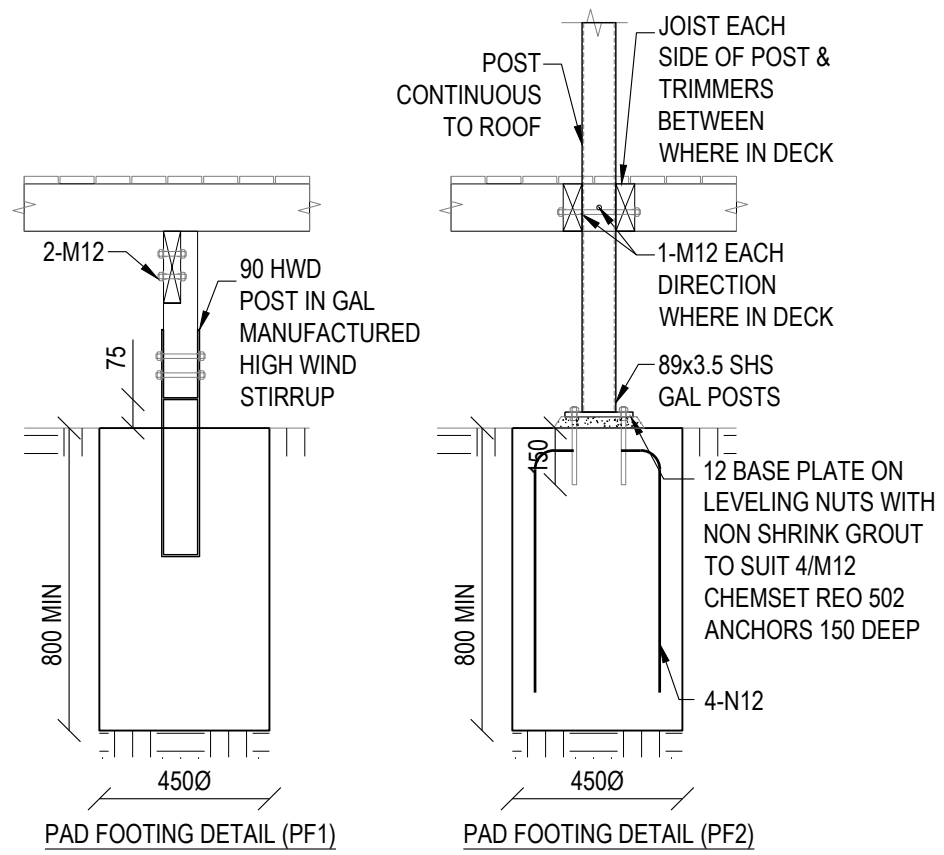
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02 of 06

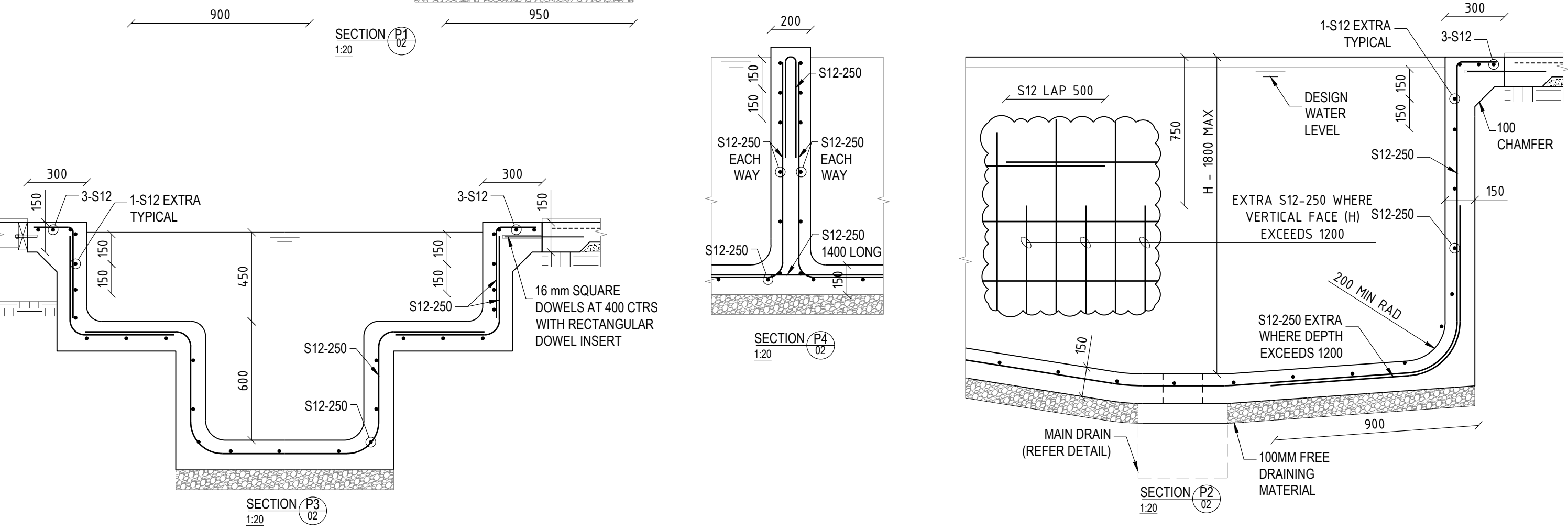
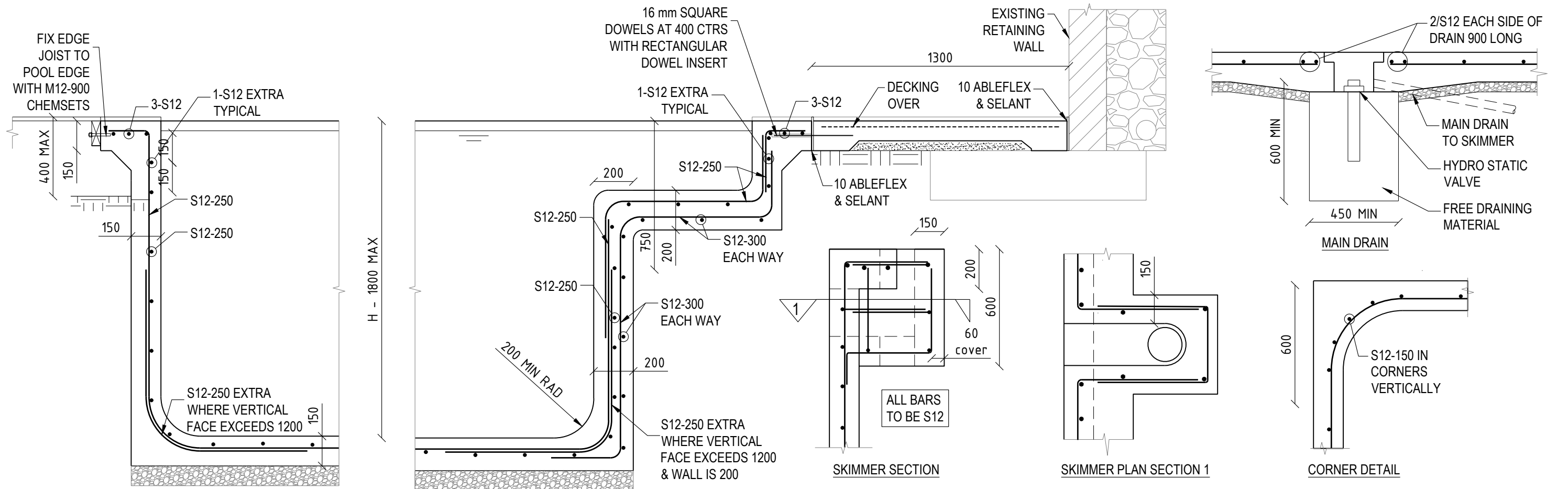
DRAWING NUMBER:
21204 ST02

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REV	DESCRIPTION	BY	DATE
0	CONSTRUCTION ISSUE	AM	22/12/20
1	POOL AREA REVISED	AM	10/09/21





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**13 REDGUM PLACE
SUFFOLK PARK**

PROJECT:
ALTERATIONS & ADDITIONS

TITLE:
POOL DETAILS

SIZE:
A3

NO. IN SET:
04 of 06

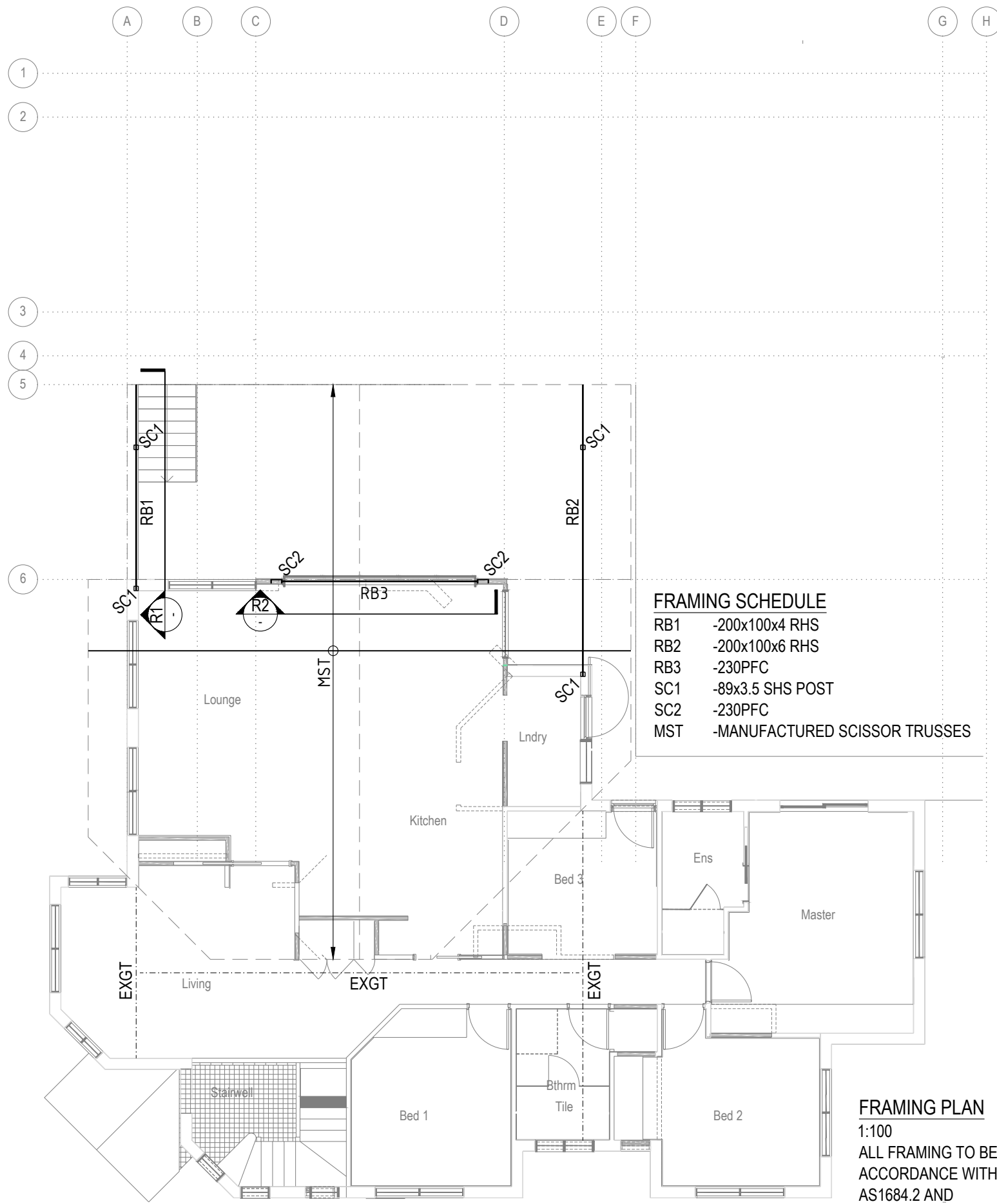
JOB NUMBER:
21204

DRAWING NUMBER:
21204 ST04

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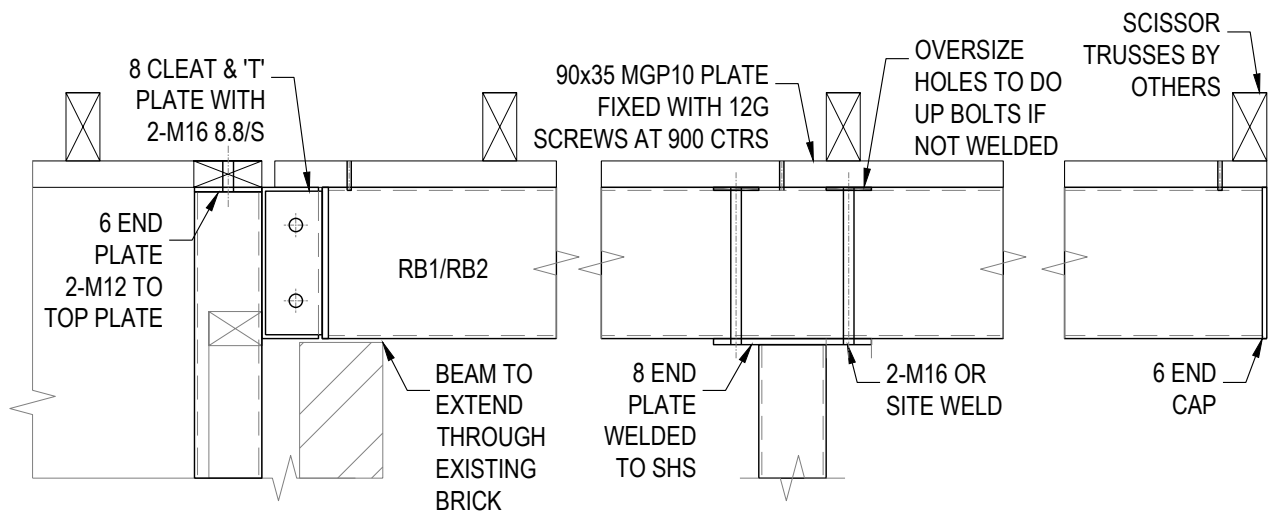
REV	DESCRIPTION	BY	DATE
0	CONSTRUCTION ISSUE	AM	22/12/20
1	POOL DETAILS REVISED	AM	10/09/21



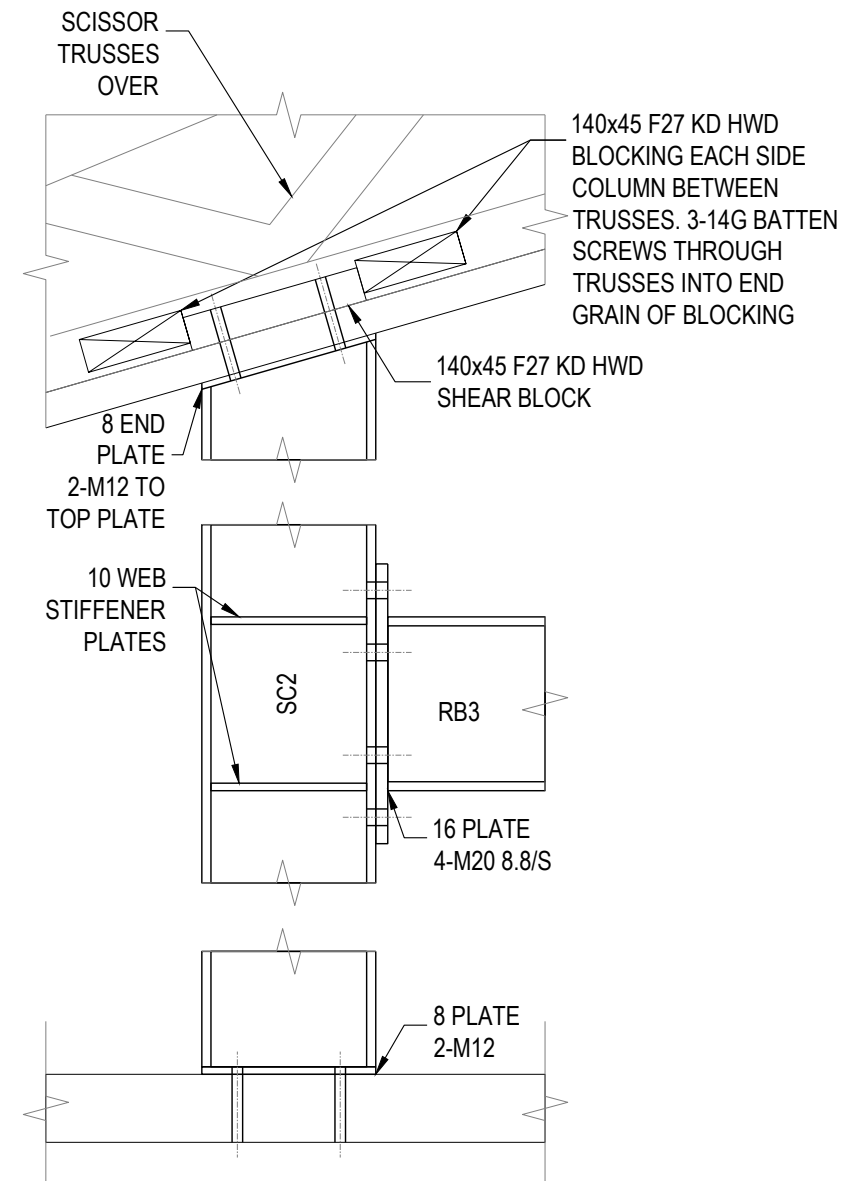
FRAMING SCHEDULE

RB1	-200x100x4 RHS
RB2	-200x100x6 RHS
RB3	-230PFC
SC1	-89x3.5 SHS POST
SC2	-230PFC
MST	-MANUFACTURED SCISSOR TRUSSES

FRAMING PLAN
1:100
ALL FRAMING TO BE IN ACCORDANCE WITH AS1684.2 AND MANUFACTURERS SPECIFICATIONS.



SECTION R1
1:10



SECTION R2
1:10



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SUFFOLK PARK**

PROJECT:
ALTERATIONS & ADDITIONS

TITLE:
ROOF PLAN & DETAILS

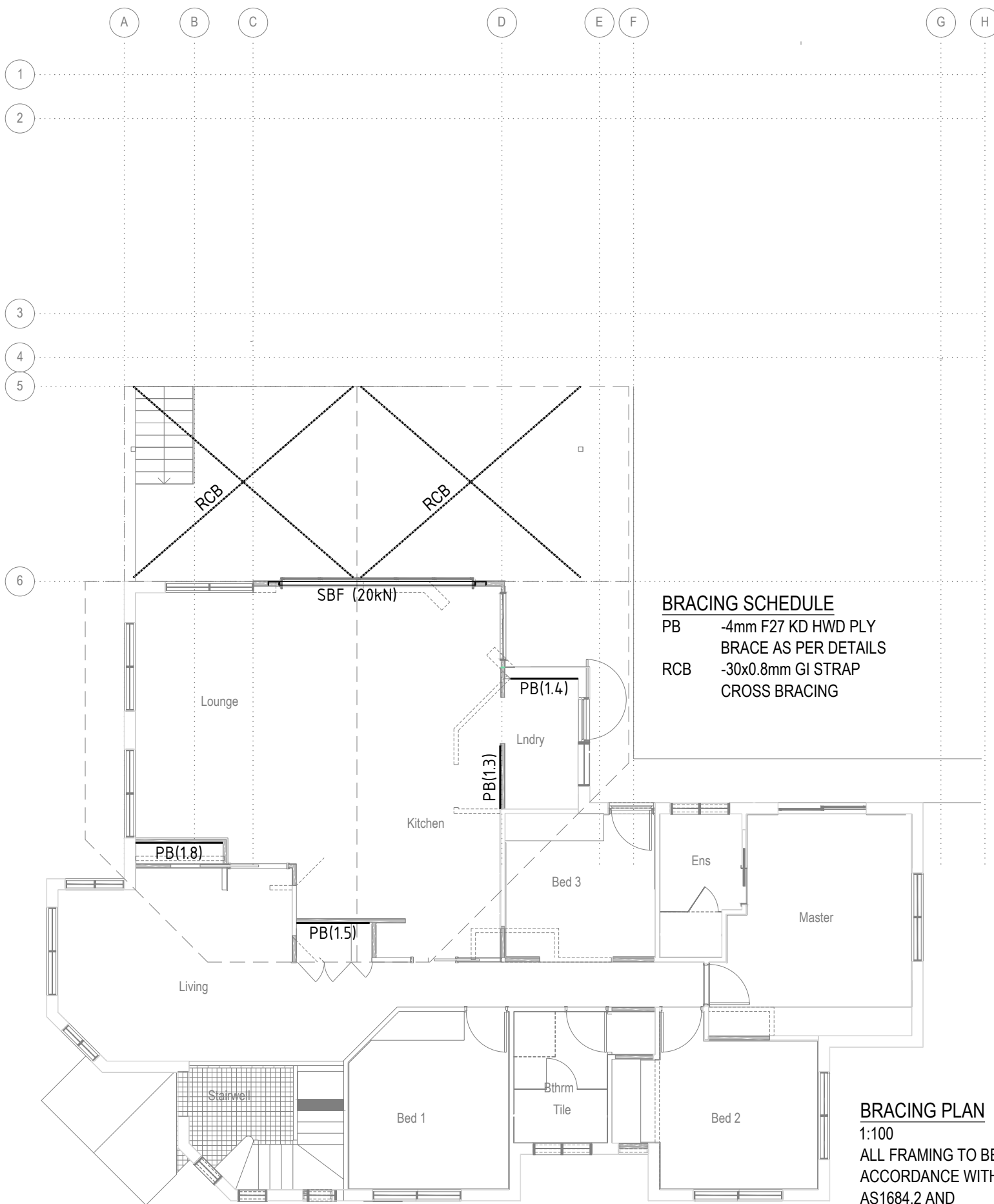
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JOB NUMBER: **21204** DRAWING NUMBER: **21204 ST05**

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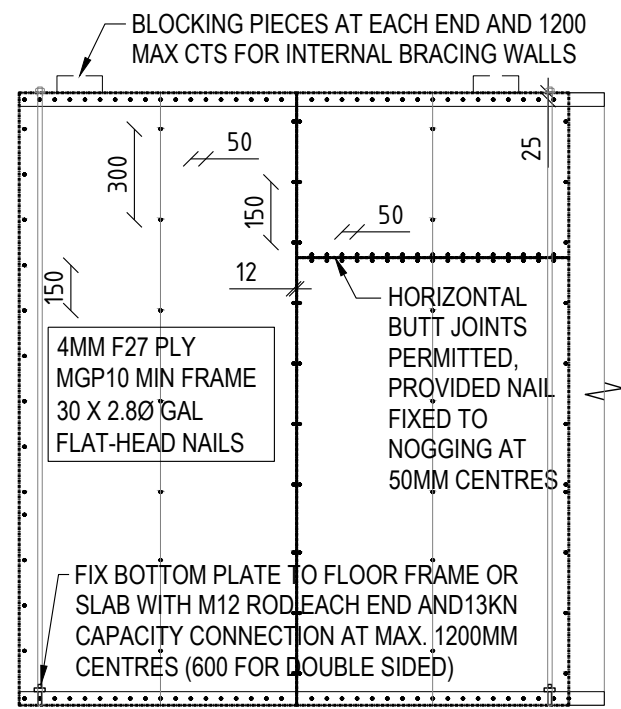
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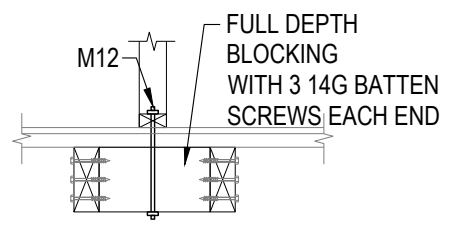


BRACING SCHEDULE
 PB -4mm F27 KD HWD PLY
 BRACE AS PER DETAILS
 RCB -30x0.8mm GI STRAP
 CROSS BRACING

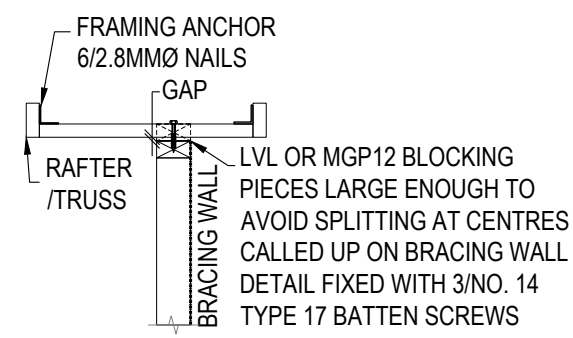
BRACING PLAN
 1:100
 ALL FRAMING TO BE IN
 ACCORDANCE WITH
 AS1684.2 AND
 MANUFACTURERS
 SPECIFICATIONS.



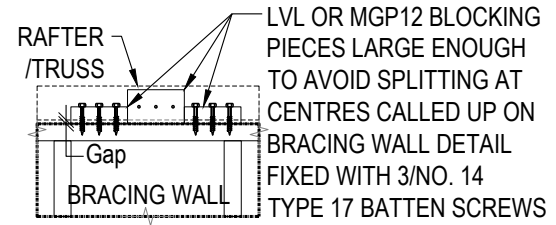
PLY BRACE WALL DETAILS 'PB'



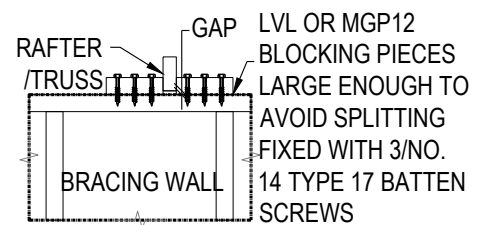
JOISTS PARALLEL TO BRACE
 (AWAY FROM BEARER)



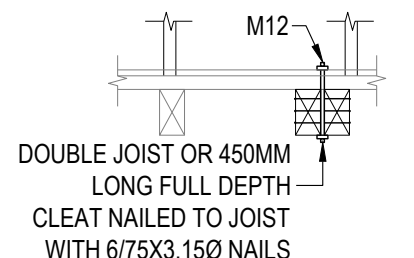
RAFTER/TRUSS PARALLEL TO BRACE



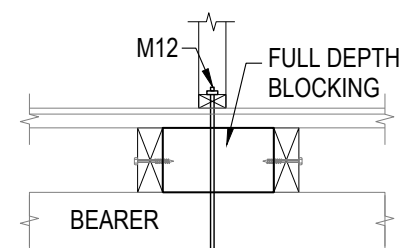
RAFTER/TRUSS ADJACENT TO BRACE



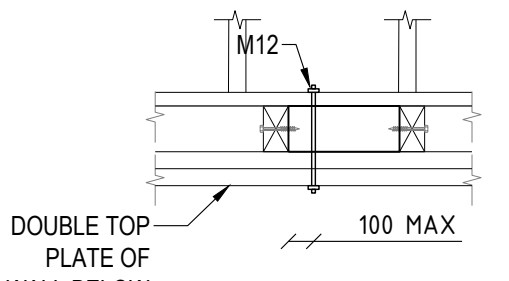
TRUSSES AT RIGHT ANGLES TO BRACE



JOISTS AT RIGHT ANGLES TO BRACE



JOISTS PARALLEL TO BRACE (@BEARER)



EXTERNAL BRACING WALL UPPER TO LOWER CONNECTION



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 SUFFOLK PARK**

PROJECT:
ALTERATIONS & ADDITIONS
 TITLE:
BRACING PLAN & DETAILS

SIZE:
A3
 NO. IN SET:
06 of 06
 JOB NUMBER:
21204
 DRAWING NUMBER:
21204 ST06

CHECKED:

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0	CONSTRUCTION ISSUE	AM	22/12/20