

RASHDEQ

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GENERAL NOTES

- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ENGINEER'S SOIL REPORT, ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- G2 THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL ISSUED AS "FOR CONSTRUCTION" BY THIS OFFICE.
- G3 THE CONTRACTOR SHALL GIVE AT LEAST 1 WORKING DAY NOTICE FOR ALL ENGINEERING INSPECTIONS.
- G4 ALL DIMENSIONS, LEVELS ETC. SHALL BE CONFIRMED FROM THE ARCHITECT'S DRAWINGS AND / OR CHECKED FROM THE JOB.
- G5 IF ANY DISCREPANCY OCCURS ON THE ENGINEER'S DRAWINGS OR BETWEEN DRAWINGS AND THE SPECIFICATION, THE DISCREPANCY MUST BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G6 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- G7 ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.
- G8 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G9 THE NEW STRUCTURAL WORK SHOWN IN THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:
 - ROOF LIVE LOAD (kPa) = 1.8/A + 0.12 OR 0.25
 - FLOOR LIVE LOAD (kPa) = 3.0
 - CAR PARK LIVE LOAD (kPa) = 2.5
 - BALCONIES LIVE LOAD (kPa) = 4.0
- G10 THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - REGION = A1
 - TERRAIN CATEGORY = TC3
 - DESIGN GUST WIND SPEED = m/s (ULT) 41
 - BASIC DYNAMIC WIND PRESSURE = kPa (ULT) 0.99
- G11 THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING EARTHQUAKE PARAMETERS:
 - IMPORTANCE LEVEL = 2
 - PROBABILITY FACTOR (Kp) = 1.0
 - HAZARD FACTOR (Z) = 0.1
- G12 CONDUCT PROOF LOAD TESTING OF CONCRETE ANCHORS IN ACCORDANCE WITH SA TS 101:2015. MINIMUM OF EITHER 3 ANCHORS OR 2.5% OF INSTALLED ANCHORS TESTED TO 1.5 TIMES THEIR DESIGN LOAD. ALTERNATIVELY TEST 5% OF INSTALLED ANCHORS TO 1.25 TIMES THEIR DESIGN LOAD.

FOOTING NOTES

- F1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL / BUILDING DESIGNERS DRAWINGS.
- F2 REFER TO BUILDING DESIGNERS / ARCHITECTS DRAWINGS FOR ALL SETTING OUT DIMENSIONS. ANY DISCREPANCIES BETWEEN THE ENGINEERING AND BUILDING DESIGNERS / ARCHITECTS DRAWINGS TO BE RESOLVED PRIOR TO CONSTRUCTION.
- F3 MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS. (PROVIDE STEPS AS PER STANDARD DETAIL DRAWINGS)
- F4 STRUCTURAL DRAWINGS MUST NOT BE SCALED.
- F5 ALL FOOTINGS CONTINUALLY TRENCHED MINIMUM 200mm INTO NATURAL GROUND.
- F6 LAPS IN MESH TO BE ONE FULL SQUARE PLUS 25mm.
- F7 SET DOWN ALL STRIP FOOTINGS AS REQUIRED.
- F8 FOOTING AT BOUNDARY MUST BE FOUNDED MINIMUM 600mm BELOW ADJACENT EXISTING GROUND LEVEL.

CONCRETE NOTES

- C1 ALL CONCRETE WORK TO BE IN ACCORDANCE WITH AS 3600.
- C2 CEMENT USED IN ALL CONCRETE SHALL BE NORMAL PORTLAND CEMENT. (TYPE A).
- C3 CONCRETE GRADES :

LOCATION	GRADE (MPa)	MAX AGG. (mm)	MAX SLUMP (mm)
FOOTINGS	25	20	80
PRECAST WALLS	50	20	80
SUSPENDED SLAB	32	20	80
PILES	32	20	80
- C4 CLEAR COVER TO REINFORCEMENT TO BE:
 - SLAB ON GROUND 25mm T
 - FOOTINGS 35mm T, 50mm B & SIDES (TO POLYETHENE DPM) 65mm (CAST AGAINST GROUND)
 - SLABS 25mm T&B INTERNAL 45mm T&B EXTERNAL
- C5 ALL CONCRETE TO BE PLACED USING A MECHANICAL VIBRATOR.
- C6 ALL CONDUITS TO BE PLACED ABOVE BOTTOM STEEL AND BELOW TOP STEEL MINIMUM OF 25mm BETWEEN CONDUITS. MAXIMUM OF 25mm CONDUITS HORIZONTALLY IN SUSPENDED SLAB.
- C7 CONSTRUCTION JOINTS TO BE THOROUGHLY SCABBLED OF ALL LAITANCE AND POORLY COMPACTED MATERIAL. VERTICAL JOINTS TO BE POURED AGAINST SHUTTERING.
- C8 ALL CONCRETE SHALL BE PROPERLY CURED BY KEEPING ALL EXPOSED SURFACES IN A MOIST OR DAMP CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.
- C9 REINFORCEMENT SYMBOLS:
 - N - DENOTES GRADE 500 DEFORMED BARS TO AS 4671.
 - R - DENOTES GRADE 250R HOT ROLLED PLAIN BARS TO AS 4671.
 - SL - DENOTES WELDED 500MPa WIRE SQUARE REINFORCING FABRIC TO AS 4671.
 - RL - DENOTES WELDED 500MPa WIRE RECTANGULAR REINFORCING FABRIC TO AS 4671.
 - RW - DENOTES HARDDRAWN RIBBED WIRE TO AS 4671.
 - W - DENOTES HARDDRAWN WIRE TO AS 4671.
- C10 LAPS: BAR LAPS SHALL COMPLY WITH AS 3600 SECTION 13. ALL LAPS TO FABRIC TO BE A TWO CROSS WIRES OVERLAP (REFER AS 3600 CLAUSE 13.2.4). ALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH BEAM INTERSECTIONS U.N.O.
- C11 PROVIDE 0.2MM POLYETHENE OR EQUIVALENT VAPOUR BARRIER THROUGHOUT UNDER GROUND FLOOR SLABS. ALL LAPS TO BE 150mm MINIMUM AND TAPED.
- C12 STRIPPING OF FORMS: STRIPPING OF FORMS SHALL BE IN ACCORDANCE WITH AS 3610.
- C13 A MAX. 1.0 kPa LOAD OF STACKED MATERIALS IS ALLOWED ON SUSPENDED SLAB AT PRE-POUR STAGE.

STEELWORK NOTES

- S1 ALL STEELWORK SHALL BE IN ACCORDANCE WITH AS 4100 AND ASSOCIATED CURRENT CODES OF PRACTICE.
- S2 ALL MATERIALS SHALL BE NEW AND IN ACCORDANCE WITH AS 1204.
- S3 HOT ROLLED STEEL SECTIONS TO BE GRADE 300 IN ACCORDANCE WITH AS 1131 UNLESS NOTED OTHERWISE.
- S4 ALL STRUCTURAL STEEL HOLLOW SECTIONS TO AS 1163.
- S5 THE ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH 3mm PLATES WITH CONTINUOUS FILLET WELDS U.N.O.
- S6 STEEL SHALL BE GRADE 350 FOR ALL RHS, SHS, AND CHS SECTIONS U.N.O.
- S7 PURLIN SECTIONS SHALL BE ROLL FORMED FROM ZINC COATED HIGH STRENGTH ZINC HI-TEN STEEL STRIP CONFORMING TO AS 1397 GRADE G450 OR G500 AS APPLICABLE WITH A MINIMUM COATING AS SPECIFIED BY THE MANUFACTURER TO SUIT THE EXPECTED ENVIRONMENTS. THE MANUFACTURER'S RECOMMENDATIONS ARE TO TAKE PRECEDENCE.
- S8 ALL WELDINGS SHALL BE IN ACCORDANCE WITH AS 1554 & CURRENT CODES OF PRACTICE. UNLESS NOTED OTHERWISE, ALL WELDINGS TO BE 6mm CONTINUOUS FILLET (CFW) LAYED DOWN WITH APPROVED COVERED ELECTRODE.
- S9 BOLTING SHALL BE IN ACCORDANCE WITH: A. COMMERCIAL GRADE BOLTS AS 1111, B. HIGH STRENGTH STRUCTURAL BOLTS AS 1252 AND TENSIONED TO AS 1511.
- S10 CONNECTIONS NOT SHOWN SHALL BE DETAILED IN ACCORDANCE WITH AISC BOLTING PROCEDURE STANDARDISED STRUCTURAL CONNECTIONS. CONTACT THE ENGINEER FOR FURTHER DETAILS IF REQUIRED. U.N.O. CONNECTIONS SHALL COMPRISE 10 PLATE CLEAT WITH 2 M20 8.8/5 BOLTS.
- S11 FACING SURFACES OF TF CONNECTIONS SHALL BE LEFT UNPAINTED AND FREE FROM SCALE AND RUST.
- S12 ALL STEELWORK SHALL HAVE CORROSION PROTECTION APPLIED AS FOLLOWS AFTER FABRICATION, GENERALLY IN ACCORDANCE WITH AS 2312:
 - 12.1 HAND OR POWER TOOL CLEAN TO A CLASS 2.5 SURFACE AS 1627.
 - 12.2 SHOP PRIME WITH 75um ZINC PHOSPHATE PRIMER.
 - 12.3 COAT WITH COMPATIBLE UNDERCOATS AND TOPCOATS AS ARCHITECT SPECIFIES.
 - 12.4 DAMAGE TO THE PRIMER FROM WHAT EVER CAUSE SHALL BE REPAIRED TO THE SAME STANDARD USED FOR THE ORIGINAL COATING. SURFACES TO BE REPAIRED SHALL BE FREE OF DIRT, GREASE, VISIBLE OXIDATION AND OTHER CONTAMINANTS BEFORE APPLYING THE PRIMER.
 - 12.5 LINTELS TO BE HOT-DIPPED GALVANISED TO AS 4680-1999.
 - S13 13.1 ALL EXTERNAL/EXPOSED STEELWORK FURTHER THAN 1km FROM THE COAST TO BE HOT DIPPED GALVANISED TO AS4680-1999 - 600g/m² OR ALTERNATIVE APPROVED.
 - 13.2 ALL EXTERNAL/EXPOSED STEELWORK CLOSER THAN 1km FROM THE COAST TO BE HOT DIPPED GALVANISED TO AS 4680-1999 - HDG 300g/m² (MIN) PLUS 75 TO 100um OF FINISHING COATS TO MANUFACTURER'S INSTRUCTIONS OR HDG 100g/m² (MIN) PLUS 125 TO 200um OF FINISHING COATS TO MANUFACTURER'S INSTRUCTIONS, OR ALTERNATIVE APPROVED.
 - S14 ENSURE THAT DURING CONSTRUCTION, THE STRUCTURE IS MAINTAINED IN A STABLE CONDITION AND NO PART OF THE STRUCTURE SHALL BE OVER-STRESSED STEELWORK SHALL BE SUITABLY BRACED DURING CONSTRUCTION AS REQUIRED BY THE PROVISION OF TEMPORARY BRACINGS AS DESIGNED, DETAILED AND AS REQUIRED BY THE PROVISION OF TEMPORARY BRACINGS AS DESIGNED, DETAILED AND SUPPLIED BY THE FABRICATOR/ERECTOR.
 - S15 STEELWORK SHOP DRAWINGS SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF FABRICATION AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPRAISAL. APPROVAL WILL NOT COVER LAYOUT DIMENSIONS.
 - S16 ANY DISCREPANCIES BETWEEN THIS PLAN, OTHER RELATED PLANS OR SPECIFICATIONS AND ACTUAL CONDITIONS ON SITE TO BE REPORTED TO THIS OFFICE.
 - S17 NO PENETRATIONS ARE ALLOWED THROUGH THE STEEL MEMBERS WITHOUT ENGINEER'S APPROVAL.
 - S18 FIRE TREATMENT:
 - ALL STEEL BEAMS TO BASEMENT AND GROUND FLOORS TO HAVE "PROMAPANT" FOR FRL 120/120/120
 - ALL STEEL BEAMS TO FIRST, SECOND AND THIRD FLOORS TO BE SPRAYED WITH "CAFCO 300" OR SIMILAR FOR FRL 120/120/120.

PRECAST CONCRETE NOTES

- P1 ALL PRECAST CONCRETE IS TO COMPLY WITH THE CONCRETE NOTES ON THESE DRAWINGS, AS 3600 AND AS3850.
- P2 FOR LOCATIONS AND DIMENSIONS OF PRECAST PANELS REFER TO ARCHITECTURAL DRAWINGS. PANELS NOTED AS SIMILAR ON THESE DRAWINGS ARE ONLY STRUCTURALLY SIMILAR, AND MAY HAVE ARCHITECTURAL DIFFERENCES SUCH AS DIMENSIONS, GROOVES, FERRULES, MINOR PENETRATIONS, ETC. REFER TO ARCHITECTS DRAWINGS FOR DETAILS.
- P3 FOR ARCHITECTURAL FIXINGS AND REBATES REFER TO ARCHITECTS DRAWINGS.
- P4 ALL PANELS ARE TO BE CONSTRUCTED FROM NORMAL WEIGHT CONCRETE.
- P5 SHOP DRAWINGS ARE TO BE DRAWN AND SUBMITTED AT LEAST 14 DAYS PRIOR TO FABRICATION OF PANELS TO THE ENGINEER TO ENABLE CHECKING AND ALTERATIONS IF NECESSARY TO BE MADE PRIOR TO FABRICATION.
- P6 THE PANELS HAVE BEEN DESIGNED FOR THE IN PLACE CONDITION (I.E. LOADS THE PRECAST PANELS ARE SUBJECTED TO AFTER ERECTION ON SITE) AND THE CONTRACTOR MUST MAKE HIS OWN ASSESSMENT AS TO ANY EXTRA REINFORCEMENT, LIFTING FITTINGS, STRONGBACKS, ETC., THAT MAY BE REQUIRED TO SUIT HIS PROPOSED TRANSPORTATION, HANDLING AND ERECTION METHODS. ANY SUCH EXTRA MATERIALS OR OTHER HANDLING REQUIREMENTS MUST BE ALLOWED FOR IN THE TENDER. THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE ENGINEER, FULL DETAILS AND COMPUTATIONS BY A CHARTERED ENGINEER EXPERIENCED IN THIS TYPE OF WORK. THESE SHALL COVER THE HANDLING PROCEDURE OF THE UNITS, THROUGHOUT ALL STAGES INCLUDING STRIPPING, LIFTING, STACKING, TRANSPORTATION AND ERECTION. CONCRETE STRESSES THROUGHOUT HANDLING SHALL NOT CAUSE CRACKING, COMPUTATIONS AND DETAILS SHALL INCLUDE LOCATION AND SIZE OF INSERTS AND TESTS PROVING ANCHORAGE CAPACITY OF LIFTING FERRULES.
- P7 ALL SHOP DRAWINGS ARE TO BE APPROVED BY THE MAIN CONTRACTOR PRIOR TO CONSTRUCTION COMMENCING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONAL CHECKS AND CO-ORDINATION OF THE CONTRACT DOCUMENTS AND SITE DIMENSIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO MANUFACTURE COMMENCING.
- P8 ALL FERRULES AND CAST-IN ITEM USED SHALL BE GALVANISED STEEL IN ACCORDANCE WITH AS4680. MINIMUM COATING THICKNESS 600g/m² OR OTHERWISE APPROVED, AND FITTED WITH ANCHORAGE BARS OF MINIMUM 10mm DIAMETER. A MINIMUM M20 DIAMETER FERRULE IS TO BE ADOPTED UNLESS NOTED OTHERWISE.
- P9 FERRULES THAT WILL BE EXPOSED AFTER COMPLETION OF ERECTION ARE TO BE RECESSED 30mm BELOW THE CONCRETE SURFACE AND ARE TO BE GROUTED ON COMPLETION.
- P10 PROVIDE 20mm LOCATING DOWELS TO THE BASE OF ALL WALLS, WITH A MINIMUM OF 2 PER PANEL, UNLESS NOTED OTHERWISE.
- P11 ALL CORBELS TO THE PRECAST PANELS TO BE POURED MONOLITHICALLY WITH THE PANEL.
- P12 ALL EXPOSED AND BUTTING EDGES OF PANELS SHALL HAVE A 15mm CHAMFER.
- P13 ALL PANELS SHALL BE CAST ON A BOND BREAKER APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURE. THE BOND BREAKER SHALL REDUCE ADHESION TO A LEVEL LESS THAN 50 % OF THE PANEL DEAD LOAD.
- P14 THE PANELS MUST BE STACKED IN SUCH A WAY THAT :
 - A) CRACKING WILL NOT OCCUR;
 - B) WARPING IN EXCESS OF THAT GIVEN IN THE RELEVANT CODES WILL NOT OCCUR
- P15 THE CONTRACTOR SHALL TRANSPORT, ERECT ON SITE, AND PROP THE PANELS USING A MINIMUM OF TWO PROPS PER PANEL.
- P16 PROPS SHALL BE USED IN ACCORDANCE WITH THE SUPPLIER'S OR MANUFACTURER'S RECOMMENDATIONS AND LOAD LIMITS, AND SHALL BE FIXED TO FOOTINGS DESIGNED BY THE CONTRACTOR.
- P17 HIGH STRENGTH PLASTIC PACKERS USED FOR LEVELLING UNDER SUPPORT POINTS OF LOAD-BEARING PRECAST PANELS MAY BE LEFT PERMANENTLY PROVIDED THEY ARE CENTRALLY LOCATED BETWEEN THE FACES OF THE PANELS, HAVE A MINIMUM OF 50mm GROUT COVER AND A BEARING PRESSURE OF LESS THAN 7MPa. PACKERS USED BETWEEN NON-LOAD BEARING PANELS SHALL BE REMOVED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE PANELS.
- P18 CONNECT ALL PANELS AT BUTT JOINTS AND INTERSECTIONS AS INDICATED. WHERE BOLTED CONNECTIONS ARE USED AS PANEL-TO-PANEL FIXINGS, PLACE BOLTS CENTRALLY IN BOLT HOLE TO GIVE MAXIMUM TOLERANCE IN ALL DIRECTIONS.
- P19 ALL GAPS SHALL BE PROPERLY SEALED WHEN GROUTING UP THE PRECAST CONNECTIONS TO AVOID THE GROUT FILLING THE GAP BETWEEN THE PANEL AND THE STRUCTURE AND TO AVOID GROUT SPOILING THE FACE OF THE PANELS.
- P20 GROUT TO BE USED SHALL BE NON-SHRINK AND SHALL HAVE A 28 DAY CHARACTERISTIC STRENGTH OF 40 MPa. DETAILS OF THE PROPOSED GROUT TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

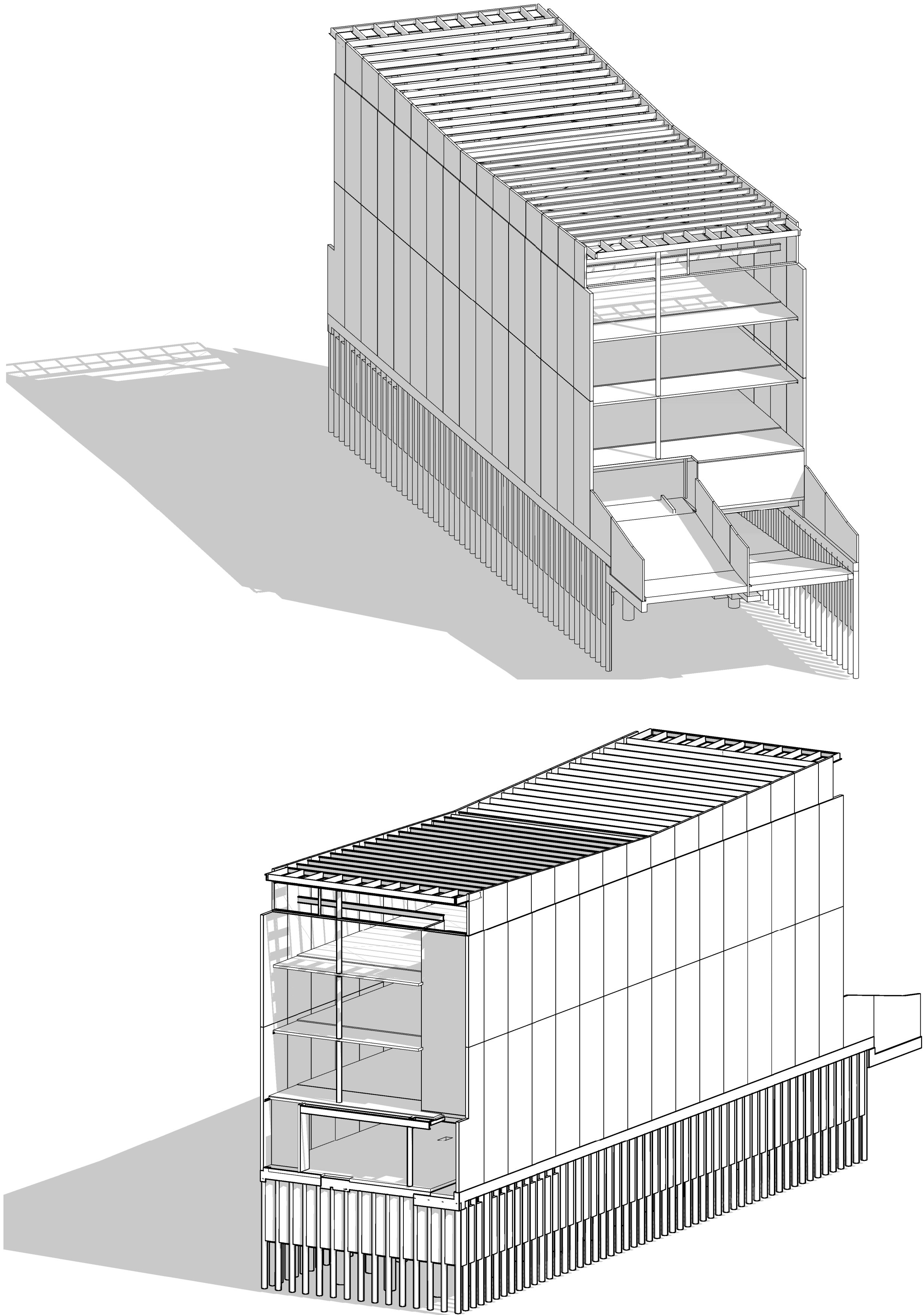
- P21 ALL JOINTS SHALL BE PROPERLY CAULKED AND SEALED AS REQUIRED AND FIRE-RATED WHERE NECESSARY. TO ARCHITECTURAL SPECIFICATIONS. ACID ETCHING AND ACID CLEANING OF PANELS IS NOT ALLOWED.
- P22 DETAILS OF SURFACE TREATMENT ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE.
- P23 VENEERED CONSTRUCTION AND USE OF DIFFERENT MIXES AND MIXES FROM DIFFERENT SUPPLIERS ARE NOT ALLOWED.

SAFETY IN DESIGN NOTES

- SID1 MLEI CONSULTING ENGINEERS HAS CONDUCTED A PRELIMINARY SAFETY IN DESIGN REVIEW OF THE DESIGN ON THESE DRAWINGS. IT IS SUMMARIZED IN THE NOTES BELOW. THE REVIEW IS BASED GENERALLY ON THE PROCEDURE OUTLINED IN THE SAFE WORK AUSTRALIA PUBLICATION "SAFE DESIGN OF STRUCTURE CODE OF PRACTICE".
- SID2 THE DESIGN HAS NOT BEEN REVIEWED WITH CONTRACTOR/BUILDER AT THE TIME OF ISSUE FOR TENDER OR CONSTRUCTION. CONSTRUCTION METHODS VARY BETWEEN CONTRACTORS, SO IT IS NOT POSSIBLE FOR MLEI CONSULTING ENGINEERS TO PERFORM AN EXHAUSTIVE SAFETY IN DESIGN OR SAFETY IN CONSTRUCTION REVIEW. ONCE APPOINTED, THE CONTRACTOR IS REQUIRED TO UNDERTAKE A THOROUGH REVIEW OF THE DESIGN WITH THEIR SUBCONTRACTORS TO IDENTIFY SAFETY RISKS DURING CONSTRUCTION AND DURING THE LIFE OF THE BUILDING.
- SID3 THE SAFETY RISK MITIGATION ITEMS BELOW ARE BASED ON MLEI'S DESIGN OFFICE EXPERIENCE AND DO NOT NECESSARILY ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION SAFETY RISKS BASED ON INFORMATION WHEN THIS DRAWING WAS MADE IN ITS CAPACITY AS DESIGNER ONLY. MLEI HAS TRIED TO IDENTIFY SAFETY RISKS PERTAINING TO CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION PHASES OF THE ASSET. INCLUSION (OR NOT) OF ANY ITEM DOES NOT REDUCE OR LIMIT OBLIGATIONS OF CONTRACTOR, USER, MAINTAINER AND DEMOLISHER TO UNDERTAKE APPROPRIATE RISK MANAGEMENT ACTIVITIES TO REDUCE RISK AND IS NOT AN ADMISSION BY MLEI THAT INCLUSION OF ANY ITEM IS THE DESIGNER'S RESPONSIBILITY.
- SID4 CONSTRUCT BUILDING ELEMENTS THAT CONTRIBUTE TO SAFETY SUCH AS HAND RAILS AND TOE BOARDS, FALL ARREST SYSTEMS, etc. AS EARLY AS POSSIBLE.
- SID5 PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND ELEVATED AREAS.
- SID6 REVIEW ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, INCLUDING MOVEMENTS OF BOTH.
- SID7 LOCATE LIFTING SLEW AND LAY DOWN AREAS AWAY FROM REGULAR CONSTRUCTION TRAFFIC.
- SID8 PROVIDE PROTECTION OF PERSONNEL FROM PLANT AND EQUIPMENT, INCLUDING POST-TENSIONED GROUND ANCHOR INSTALLATION WORKS
- SID9 ENSURE ISOLATION SAFE SYSTEMS OF WORK OR PROTECTIVE MEASURES ARE INSTALLED BEFORE WORKING NEAR LIVE ELECTRICAL INFRASTRUCTURE. PROVIDE PROTECTION OF ELECTRICAL OVERHEAD WIRING SYSTEMS DURING CONSTRUCTION.
- SID10 WRITTEN RISK ASSESSMENTS ARE ADVISED FOR ACCESS TO OPEN EXCAVATIONS.
- SID11 PROVIDE ACCESS AN EGRESS TO EXCAVATIONS APPROPRIATE IN CASE OF INUNDATION, COLLAPSE OR ENGULFMENT.
- SID12 LOCATE STOCKPILES AND HEAVY EQUIPMENT INCLUDING CRANES AWAY FROM BURIED SERVICES AND BUILDING BOUNDARIES WHERE ADJACENT BASEMENTS ARE PRESENT.
- SID13 SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL OR STRUCTURAL ENGINEER PRIOR TO OPERATION OF HEAVY SURFACE PLANT AND EQUIPMENT OR STOCKPILING MATERIAL NEAR OPEN EXCAVATIONS OR EXISTING RETAINING STRUCTURES.
- SID14 DO NOT STOCKPILE MATERIALS BEHIND OR EXCAVATE IN FRONT OF EXISTING RETAINING WALLS UNTIL WALL STABILITY HAS BEEN REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
- SID15 SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LAYING SERVICES BELOW EXISTING FOOTING LEVELS.
- SID16 HAVE LOAD CAPACITY OF STRUCTURES VERIFIED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LOADING OR STRONG MATERIALS ON EXISTING OR PARTIALLY COMPLETED STRUCTURAL ELEMENTS.
- SID17 SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER IF PLANNING CRANE LIFTS OR HOST INSTALLATION OF PARTIALLY ERECTED OR SUSPENDED STRUCTURES.
- SID18 SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE CORING, CHASING, CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT.
- SID19 HAVE SUITABLY QUALIFIED STRUCTURAL ENGINEER UNDERTAKE STRUCTURAL CHECK OF EXISTING CONCRETE, MASONRY AND STUD WALLS WHERE FIXINGS OR EQUIPMENT IS TO BE ATTACHED.
- SID20 INSTRUCT SERVICES CONTRACTORS UNDER NO CIRCUMSTANCES CAN STRUCTURAL MEMBERS BE CUT, NOTCHED OR DRILLED TO ACCOMMODATE NEW SERVICES.
- SID21 ESTABLISH LOCATIONS OF LIVE EMBEDDED SERVICES BEFORE CUTTING THROUGH SLABS, etc.
- SID22 DEVELOP STEELWORK/PRECAST/TILT UP INSTALLATION SAFE WORK METHOD STATEMENT TO ELIMINATE AND MINIMIZE INSTALLATION RISKS, AND HAVE REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
- SID23 DO NOT CUT OR UNBOLT ANY STRUCTURAL MEMBERS WITHOUT SEEKING REVIEW BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
- SID24 PROVIDE BUCKLING STABILITY TO LONG SPAN BEAMS, TRUSSES etc DURING ERECTION. IF UNSURE CHECK WITH SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO LIFTING AND INSTALLATION.
- SID25 MINIMIZE SITE BASED TREATMENTS (eg WELDING, CUTTING, SPRAY PAINTING, GRIT BLASTING, etc.). PROVIDE ADEQUATE PROTECTION, SCREENING AND VENTILATION TO MINIMIZE HAZARDS TO PERSONNEL IF SITE BASED TREATMENT IS UNAVOIDABLE.
- SID26 TRY TO AVOID WORKING IN CONFINED SPACES. IF CONFINED SPACES WORK CAN'T BE AVOIDED, PROVIDE A SAFE WORK METHOD STATEMENT ADDRESSING MITIGATION OF RISKS. PROVIDE ADEQUATE SIGNAGE TO TEMPORARY AND PERMANENT CONFINED SPACES TO AS2865.
- SID27 AVOID HOT WORKS ON SITE, PARTICULARLY IN TIMBER FRAMED STRUCTURES. HOT WORKS TO COMPLY WITH CLIENT PROCEDURES FOR APPLICATION "NOT WORKS PERMITS".
- SID28 SOME SITES IN AUSTRALIA AND EXTENSIVE REGIONS OF SE ASIA CONTAIN UNEXPOSED ORDNANCE (UXO) IN THE GROUND. UNDERTAKE DESKTOP REVIEWS FOR THE LIKELIHOOD OF UXOs BEFORE COMMENCING ANY GROUND INVESTIGATION OR EXCAVATION IN THESE AREAS. SHOULD EVIDENCE INDICATE POTENTIAL UXO PRESENCE, DO NOT COMMENCE GROUND WORKS UNTIL ENGAGING A SPECIALIST CONSULTANT WHO CAN HELP DEFINE ANY FUTURE CLEARANCE TASKS.
- SID29 DETERMINE APPROPRIATE METHOD OF PAINT REMOVAL AND DISPOSAL BEFORE STRIPPING PAINT, PARTICULARLY ON HISTORIC STRUCTURES COATINGS CONTAINING COAL TAR EPOXIES, BITUMENS AND ASPHALTS, ZINC CHROMATE AND LEAD PRESENT A HEALTH RISK. PROVIDE SCREENING TO PUBLIC AND ENVIRONMENT FOR PAINT REMOVAL AND CLEANING OPERATIONS. USE ENVIRONMENTALLY APPROPRIATE RESTORATION METHODS DURING MAINTENANCE AND REPAIR WORK.
- SID30 MAKE WORK AREAS SAFE WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKED OR HAVE SUFFERED SIGNIFICANT SECTION LOSS BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS.
- SID31 REPORT SIGNIFICANT SECTION LOSS OR CORROSION FLAKING BEFORE STARTING PAINTING OR REPAIRS. CONSULT SUITABLY QUALIFIED STRUCTURAL ENGINEER IF SECTION LOSS OR EXTENSIVE CORROSION FLAKING PRESENT BEFORE PROCEEDING WITH WORK.
- SID32 DEVELOP AND IMPLEMENT RISK MITIGATION STRATEGIES BEFORE ALLOWING ACCESS OVER SUSPENDED CLADDING FINISHES THAT MAY BECOME BRITTLE OVER TIME.
- SID33 REPORT LOOSE OR MISSING BOLTS etc. IN CONNECTIONS ENCOUNTERED DURING DAY TO DAY OPERATIONS.
- SID34 REMOVE MATERIAL FROM STORAGE STRUCTURES BEFORE UNDERTAKING MAINTENANCE WORKS.
- SID35 BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR LOCATION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



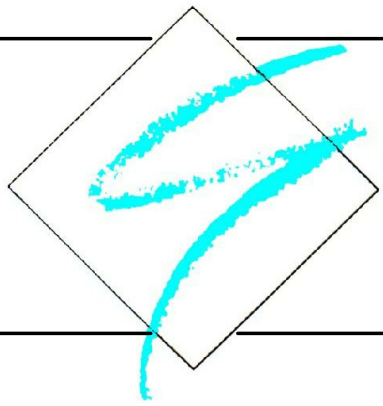
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Issue	Date	Amendment	
D	29/5/18	CERTIFICATION	
C	26/4/18	PRELIMINARY WIP	
B	20/4/18	PRELIMINARY WIP	
A	29/3/18	PRELIMINARY WIP	

ISSUED FOR CERTIFICATION
NOT FOR CONSTRUCTION

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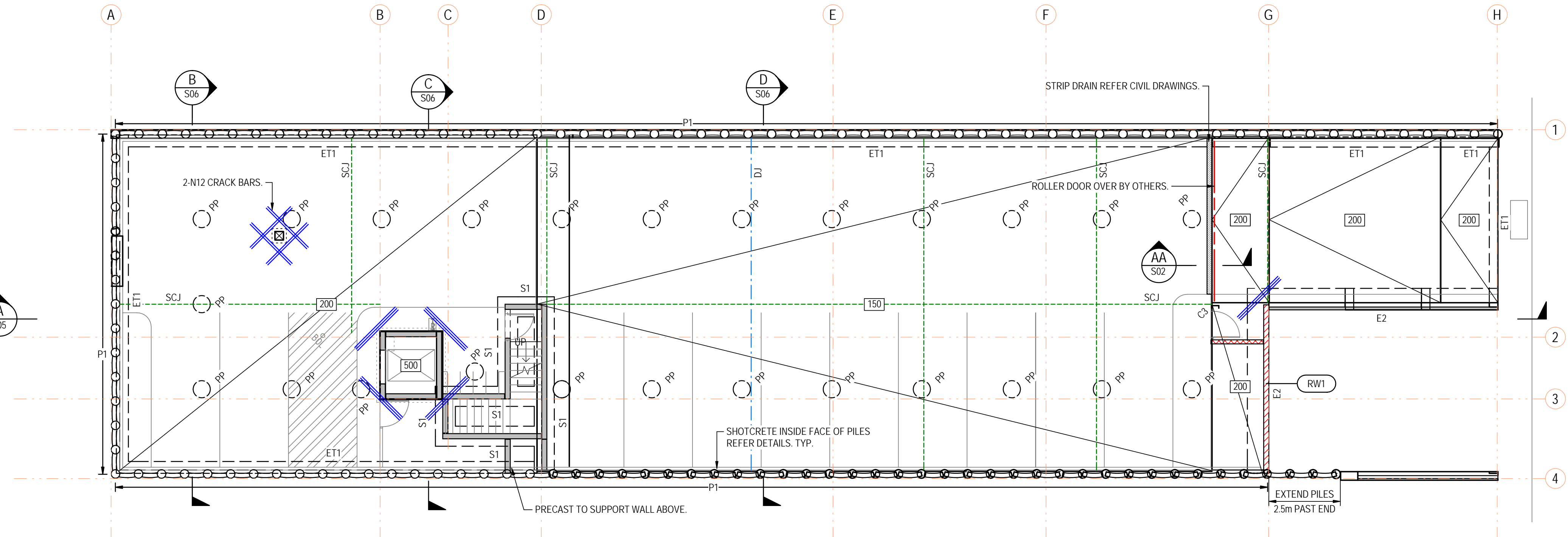


97 KING WILLIAM STREET
KENT TOWN SA

ANTHONY DONATO ARCHITECTS

DRAWING INDEX AND GENERAL NOTES

Drawn	SGP	Scale	1 : 1 on A1
Design	JT	Drawing Number	
Approved			
			2018-7161 S01
Date	MARCH 18		

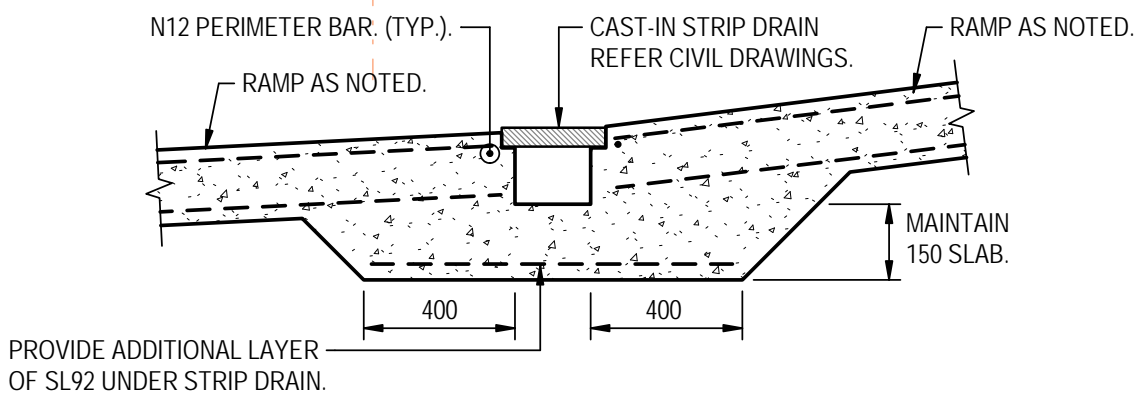


FOOTING SCHEDULE		
MEMBER	SIZE	REMARKS
CB1	300Wx600D	CAPPING BEAM, 3-N12 TOP & BOTTOM, W8-800 LIGS
E2	750Wx300D	4-N12 T&B, W8-300 CTS.
ET1	300Wx300D	2-N12 T&B, W8-1000 CTS
S1	700Wx400D	4-N12 T&B, W8-1000 CTS. SET BELOW SLAB
S2	300Wx600D	3-N12 T&B, W8-1000 CTS.

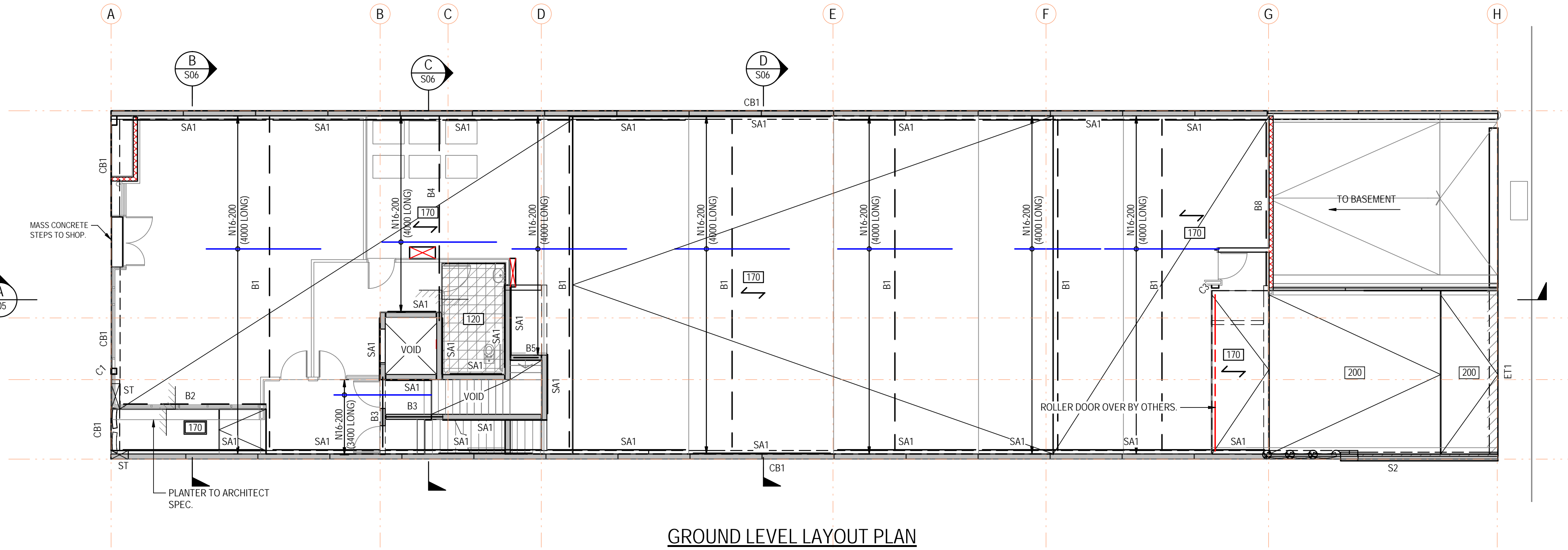
PILE SCHEDULE		
MEMBER	SIZE	REMARKS
P1	Ø300	PILES, 5.8m DEEP BELOW BOTTOM OF CAPPING BEAM. 6-N16 VERTICAL, W8-250 HOOPS CTS. 0.8m CTS

BASEMENT LAYOUT PLAN
SCALE 1 : 100

WATERPROOFING NOTES
1. FOR ALL CONCRETE IN BASEMENT AREA USE XYPEX ADDITIVE C-1000 REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS.



SECTION AA S02
SCALE 1 : 20



GROUND LEVEL LAYOUT PLAN
SCALE 1 : 100

NOTES:
1. BEAMS MARKED COMPOSITE IN STEELWORK SCHEDULE. SHALL BE COMPOSITE WITH THE SLAB
2. FILLER KF57 TO BE MIN 2 SPANS LONG WHERE APPLICABLE.
3. SHEAR STUDS TO BE Ø19mm x 95mm HIGH HEADED STUDS. REFER SCHEDULE FOR CENTRES.

PROPPING NOTES:
1. SLAB SPAN BETWEEN 2.5-5m SHALL REQUIRE 1 ROW OF PROPS AT MIDSPAN.
2. SLAB SPANS BETWEEN 5-6m SHALL REQUIRE 2 ROWS OF PROPS AT THIRD SPANS.

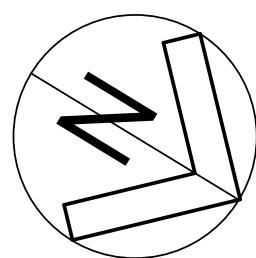
CONCRETE LEGEND

- WET AREA OR BALCONY SET DOWN TO BUILDING. 50mm. REFER BALCONY DETAILS FOR FALLS.
- INDICATES 200mm CONCRETE SLAB ON 100mm COMPACTED QUARRY RUBBLE. SL92 TOP AND SL72 BOTTOM. REFER TO CIVIL DRAWINGS FOR TOP OF SLAB LEVELS AND SLOPES.
- INDICATES 170mm CONCRETE SLAB ON KF57 1.0 BMT. SL82 TOP FACE. REINFORCEMENT AS SHOWN OR N16-200 U.N.O. 1-N16 BOTTOM EACH PAN. 35mm COVER. BALCONY SLAB TAPERS 1:100 FALL.
- INDICATES 130mm MIN CONCRETE SLAB ON KF57 1.0 BMT. SL82 TOP FACE. REINFORCEMENT AS SHOWN OR N16-200 U.N.O. 1-N16 BOTTOM EACH PAN. 35mm COVER. BALCONY SLAB TAPERS 1:100 FALL.
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- PROVIDE 3-N12-T CRACK CONTROL RODS, 2000mm LONG UNDER MESH AT ALL RE-ENTRANT CORNERS. TYPICAL.
- INDICATES STEP IN CAPPING BEAM. REFER TO DETAILS.
- INDICATES DIRECTION OF SHEETING.
- INDICATES PENETRATION THROUGH SLAB.
- INDICATES DIRECTION TOP BARS OF MESH MUST RUN. ADDITIONAL TOP REINFORCEMENT TO RUN IN LINE WITH MESH.
- INDICATES STEP IN SLAB
- INDICATES RAMP. REFER TO ARCHITECTS DRAWINGS.
- INDICATES SAW CUT JOINT. REFER TYPICAL DETAIL.
- INDICATES DOWELLED JOINT. REFER TYPICAL DETAIL.
- INDICATES PROPPING PIERS. Ø300mm 1.0m DEEP MASS CONCRETE. MAX 3.0m C/C SET IN 3.5m.
- INDICATES 180THK PRECAST WALLS.
- INDICATES 140 BLOCKWORK WALLS. N12-600 CENTRAL E.W.
- INDICATES ARCHITECTURAL NON-LOADBEARING STUDWORK.
- INDICATES SUMP LOCATIONS. REFER TO CIVIL DRAWINGS.
- INDICATES 180THK CAST IN SITU WALL. N16-150 (V) BARS. N12-400 (H) BARS INTERNAL FACE. SL72 EXTERNAL FACE. f_c = 32 MPa. PROP UNTIL GROUND FLOOR SLAB IS POURED AND HAS ACHIEVED FULL DESIGN STRENGTH.
- INDICATES BEAM UNDER.

FRAMING SCHEDULE

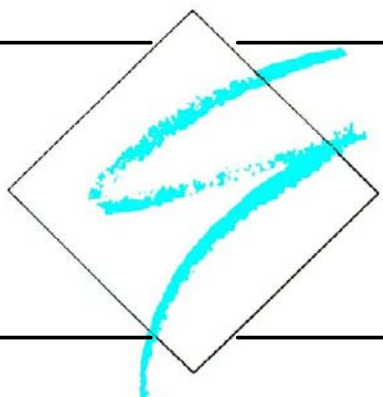
MEMBER	SIZE	REMARKS
B1	610UB101	COMPOSITE FLOOR BEAM - Ø19mm STUDS @ 250 CTS. PRE-CAMBER 40mm.
B2	380PFC	FLOOR BEAM
B3	310UB32	FLOOR BEAM
B4	530UB82	COMPOSITE FLOOR BEAM - Ø19mm STUDS @ 220 CTS. NO PRECAMBER
B5	200PFC	FLOOR BEAM
B6	310UC137	COMPOSITE FLOOR BEAM - Ø19mm STUDS @ 200 CTS. PRE-CAMBER 40mm.
B7	610UB125	COMPOSITE FLOOR BEAM - Ø19mm STUDS @ 230 CTS. PRE-CAMBER 40mm.
B8	360UB57	FLOOR BEAM
B9	530UB82	FLOOR BEAM
BR1	Ø20 ROD BRACING	ROOF BRACING FIX TO SEATING ANGLE WITH 1-M20 8.8/S BOLT. PROVIDE HANGER OFF OF PURLINS TO REDUCE SAG.
C1	200x200x5.0 SHS	COLUMN
C2	200x200x5.0 SHS	COLUMN
C3	250PFC	FIXED TO FLOOR SLAB AT BOTH LEVELS
FB1	C30024	FASCIA BEAM FIXED TO OUTRIGGERS
FB2	360UB45	FLOOR BEAM
FB3	250UB26	FLOOR BEAM
H1	89x89x3.5 SHS	HANGER @ 1200 CTS
L1	360UB45	LINTEL
L2	310UB32	LINTEL
OR1	Z30030	OUTRIGGER AT 1200 CTRS
PL1	Z30030	PURLINS AT 1200 CTRS 2 ROWS OF BRIDGING
RB1	300PFC	ROOF BEAM
SA1	90x90x6 EA	SEAT ANGLE
WB1	250PFC	WALL HEAD ON FLAT

Issue	Date	Amendment
E	22/6/18	CERTIFICATION - LIFT CHANGES
D	1/6/18	CERTIFICATION
C	29/5/18	CERTIFICATION
B	26/4/18	PRELIMINARY WIP
A	29/3/18	PRELIMINARY WIP



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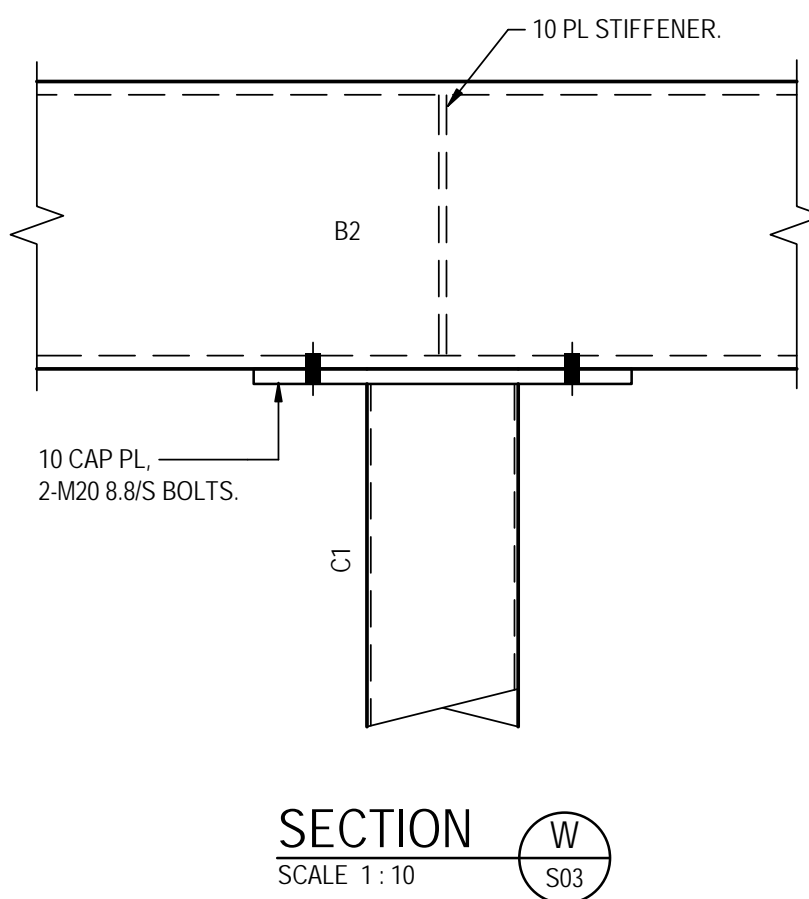
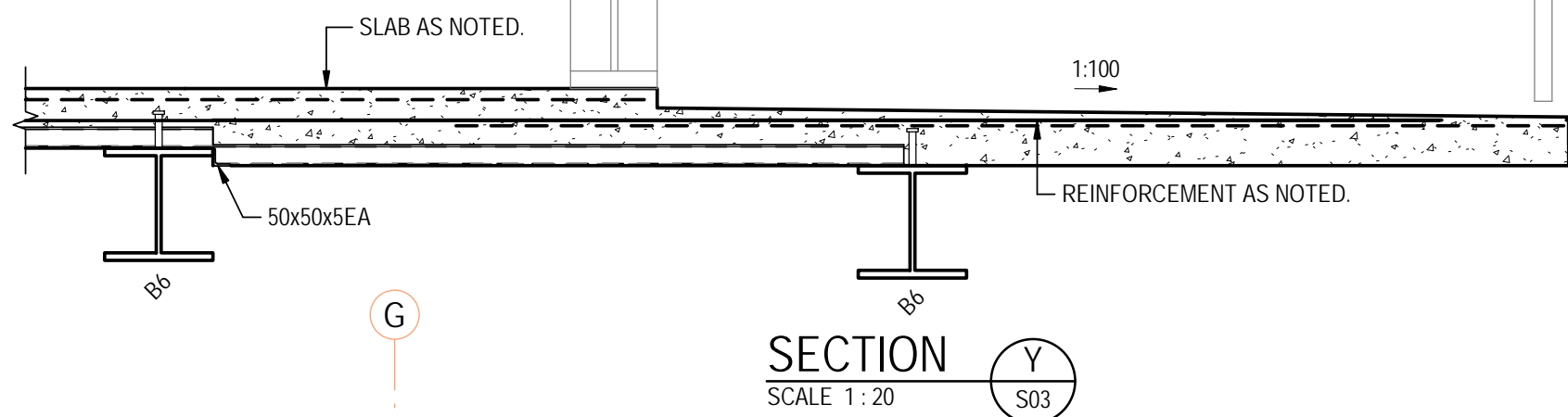
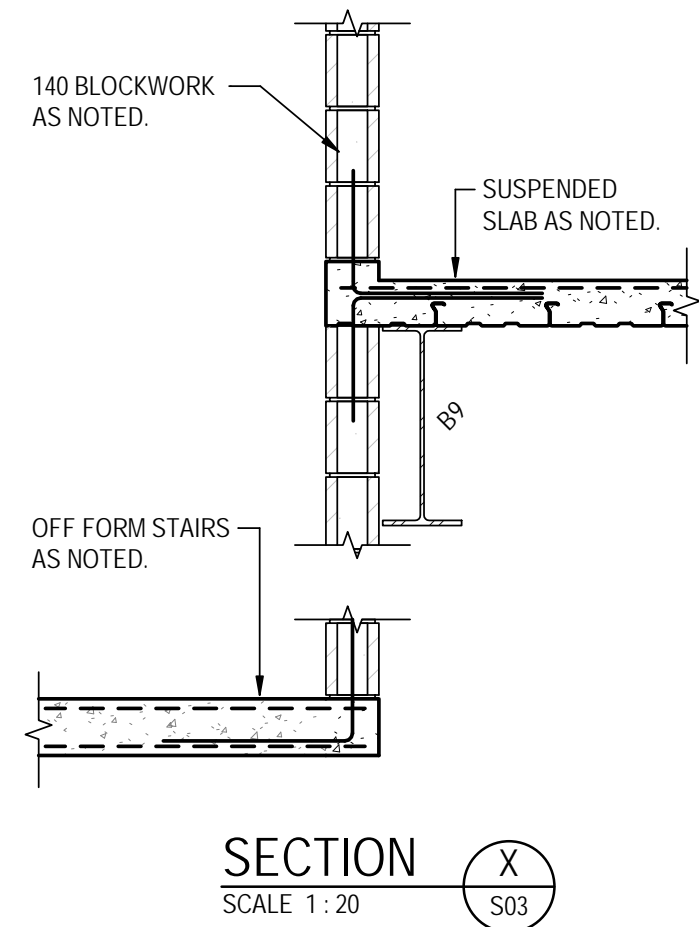
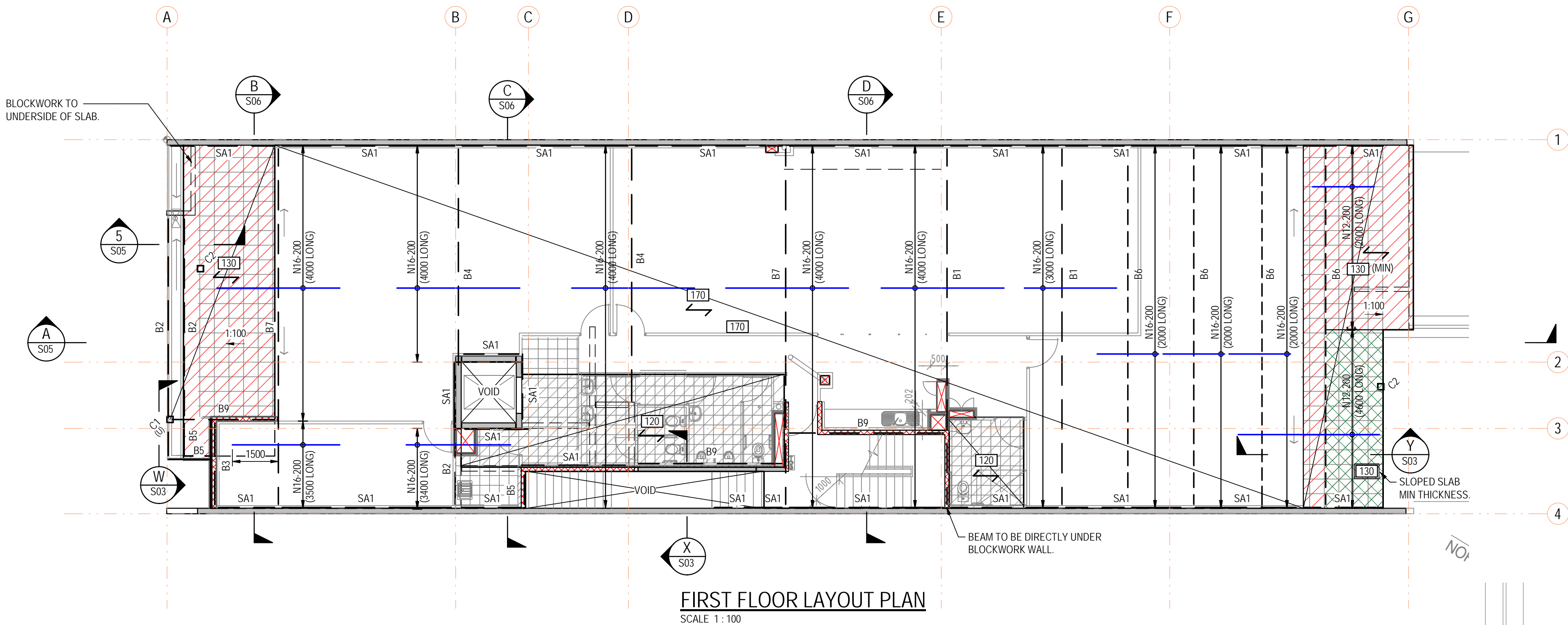


97 KING WILLIAM STREET
KENT TOWN SA
ANTHONY DONATO ARCHITECTS
BASEMENT AND GROUND FLOOR LAYOUT PLANS

Drawn SGP Scale As indicated on A1
Design JT Drawing Number
Approved
Date MARCH 18
2018-7161 S02

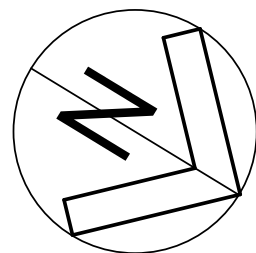
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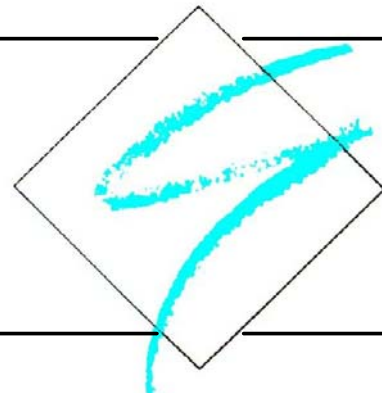
FRAMING SCHEDULE		
MEMBER	SIZE	REMARKS
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FB2	360UB45	FLOOR BEAM
FB3	250UB26	FLOOR BEAM
H1	89x89x3.5 SHS	HANGER @ 1200 CTS
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C	29/5/18	CERTIFICATION
B	26/4/18	PRELIMINARY WIP
A	29/3/18	PRELIMINARY WIP



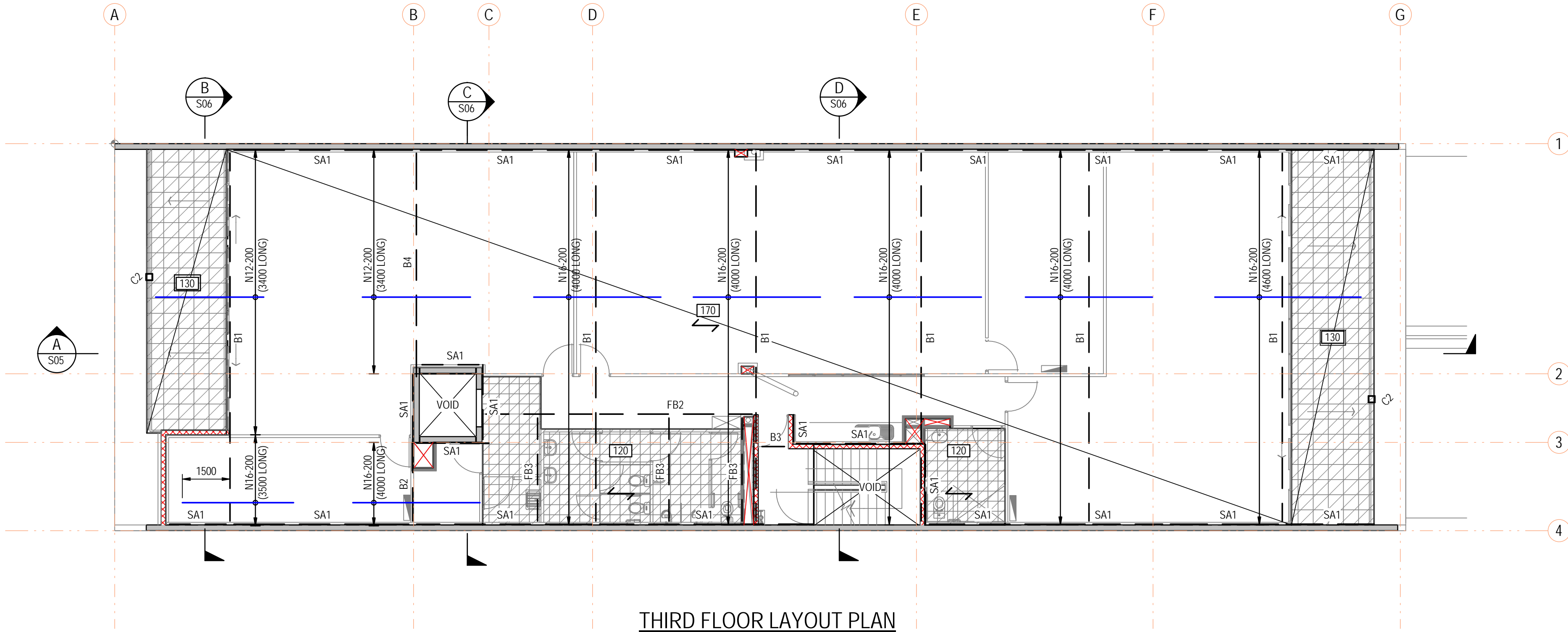
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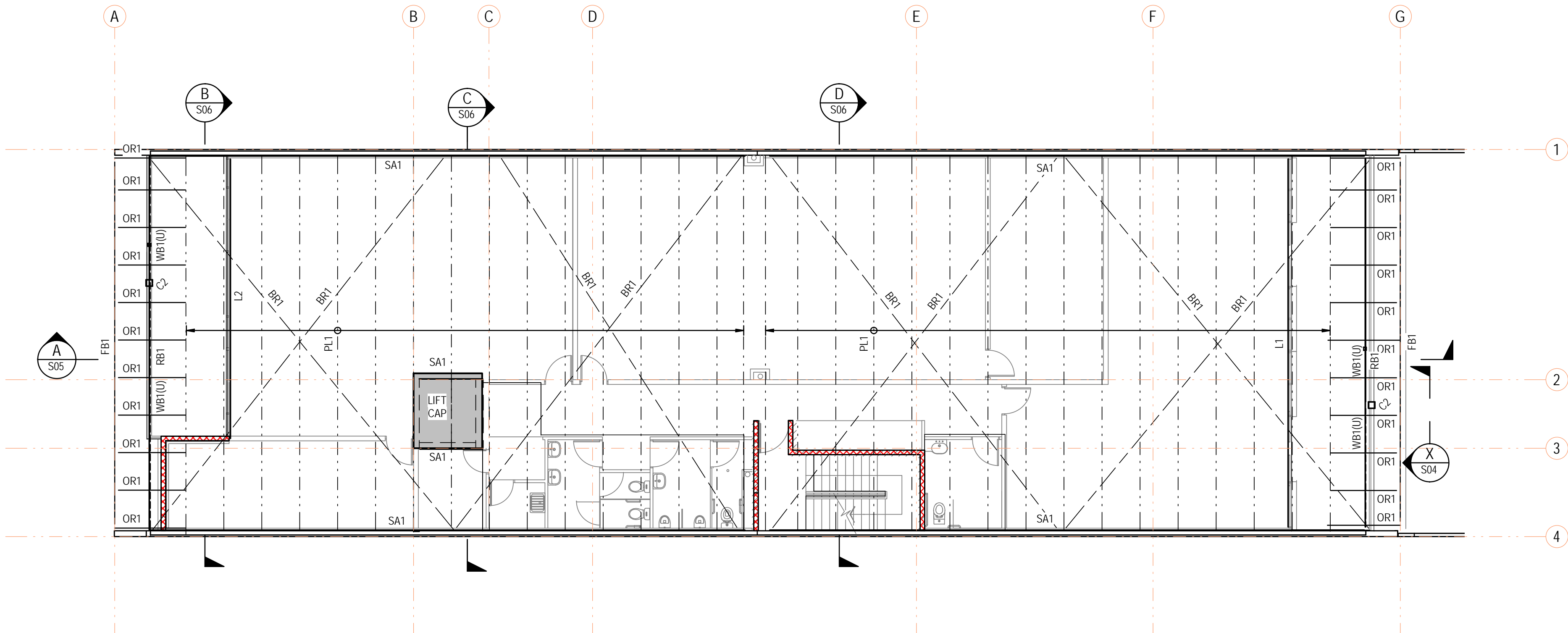


97 KING WILLIAM STREET
KENT TOWN SA
ANTHONY DONATO ARCHITECTS
FIRST FLOOR AND SECOND FLOOR LAYOUT PLANS

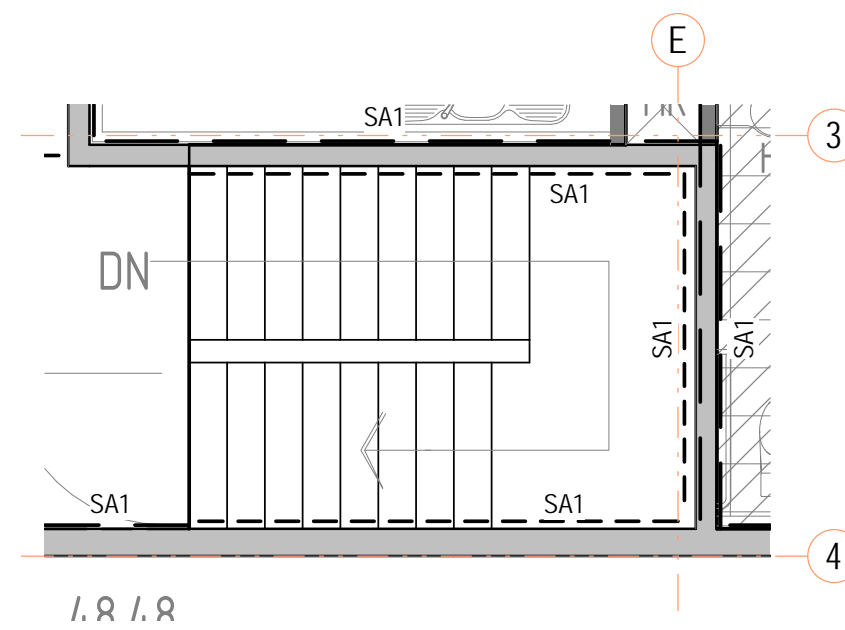
Drawn SGP Scale As indicated on A1
Design JT Drawing Number
Approved
Date MARCH 18
2018-7161 S03



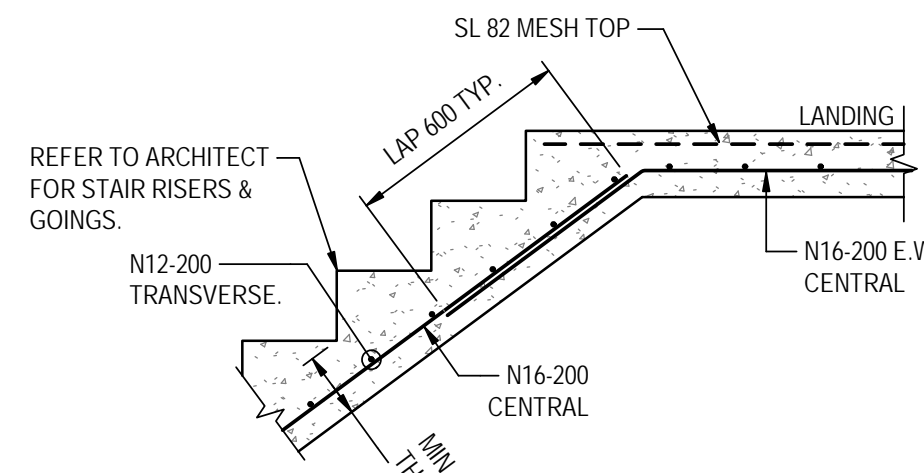
THIRD FLOOR LAYOUT PLAN
SCALE 1:100



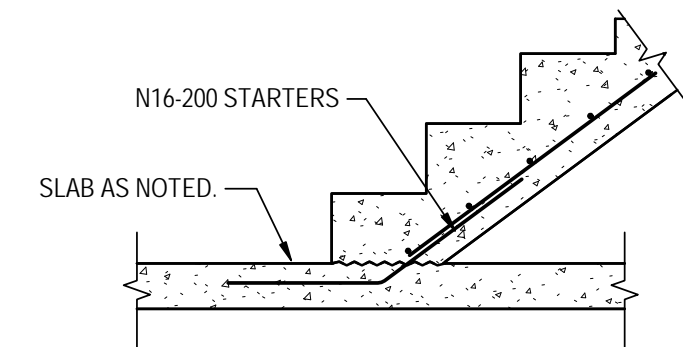
ROOF FRAMING PLAN
SCALE 1:100



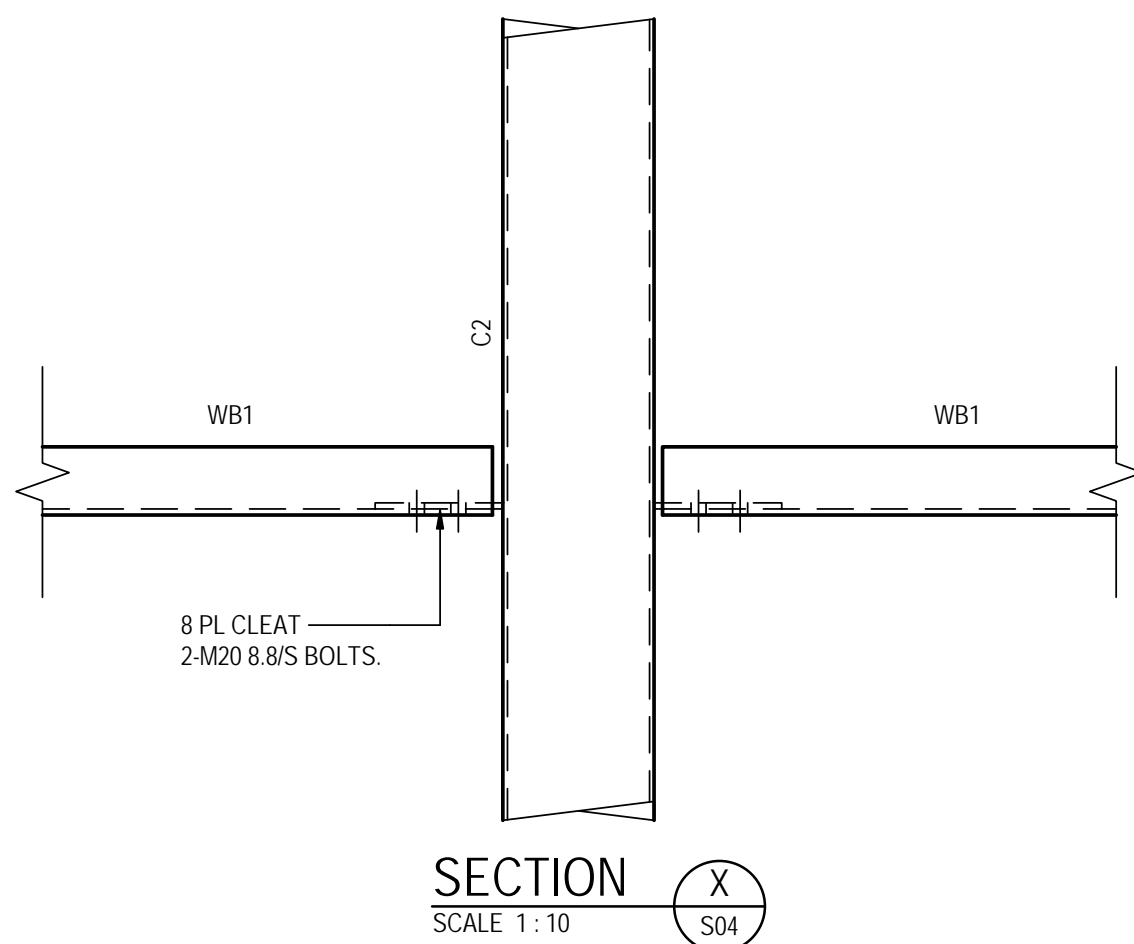
TYPICAL STAIR PLAN
SCALE 1:50



TYPICAL STAIR DETAIL
SCALE 1:20



TYPICAL STAIR TO SLAB DETAIL
SCALE 1:20



SECTION
SCALE 1:10

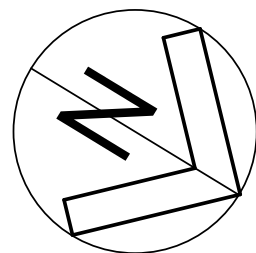
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FRAMING SCHEDULE

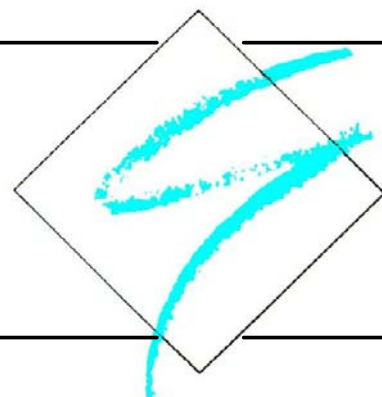
MEMBER	SIZE	REMARKS
B1	610UB101	COMPOSITE FLOOR BEAM - ø19mm STUDS @ 250 CTS, PRE-CAMBER 40mm.
B2	380PFC	FLOOR BEAM
B3	310UB32	FLOOR BEAM
B4	530UB82	COMPOSITE FLOOR BEAM - ø19mm STUDS @ 220 CTS, NO PRECAMBER
B5	200PFC	FLOOR BEAM
B6	310UC137	COMPOSITE FLOOR BEAM - ø19mm STUDS @ 200 CTS, PRE-CAMBER 40mm.
B7	610UB125	COMPOSITE FLOOR BEAM - ø19mm STUDS @ 230 CTS, PRE-CAMBER 40mm.
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C3	250PFC	FIXED TO FLOOR SLAB AT BOTH LEVELS
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FB3	250UB26	FLOOR BEAM
H1	89x89x3.5 SHS	HANGER @ 1200 CTS
L1	360UB45	LINTEL
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PL1	Z30030	PURLINS AT 1200 CTRS 2 ROWS OF BRIDGING
RB1	300PFC	ROOF BEAM
SA1	90x90x6 EA	SEAT ANGLE
WB1	250PFC	WALL HEAD ON FLAT

Issue	Date	Amendment
E	22/6/18	CERTIFICATION - LIFT CHANGES
D	29/5/18	CERTIFICATION
C	15/5/18	PRELIMINARY WIP
B	26/4/18	PRELIMINARY WIP
A	29/3/18	PRELIMINARY WIP



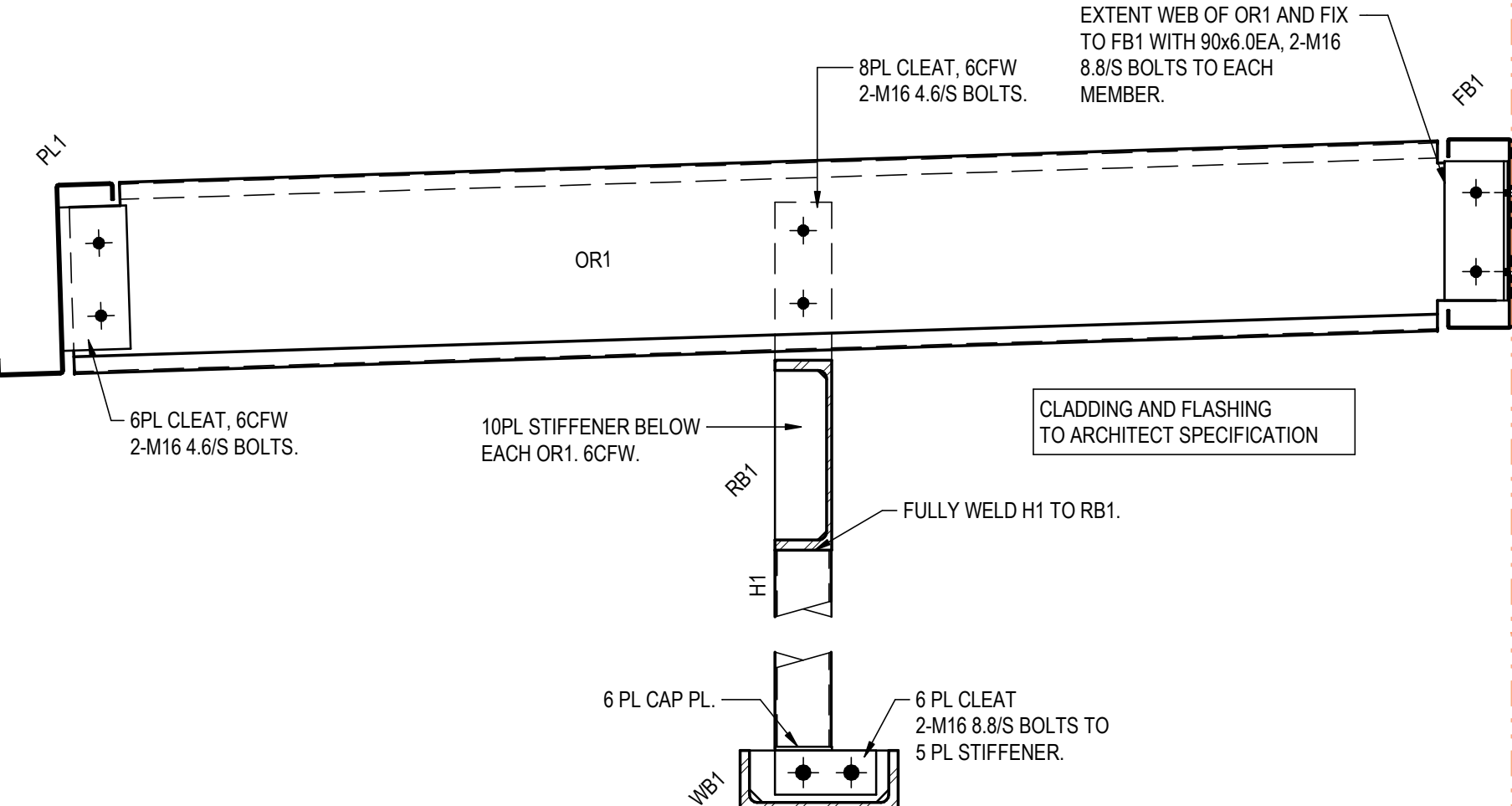
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97 KING WILLIAM STREET
KENT TOWN SA
ANTHONY DONATO ARCHITECTS
THIRD FLOOR AND ROOF FRAMING LAYOUT PLAN

Drawn SGP Scale As indicated on A1
Design JT Drawing Number
Approved
Date MARCH 18
2018-7161 S04



FLASHING AND CLADDING BY OTHERS.

BOX GUTTER BY OTHERS.

BALCONY SLAB AS NOTED.

PROVIDE LVL PACKERS TO STEEL BEAMS. 1-M12 4.6/S BOLTS AT 1200 CTS.

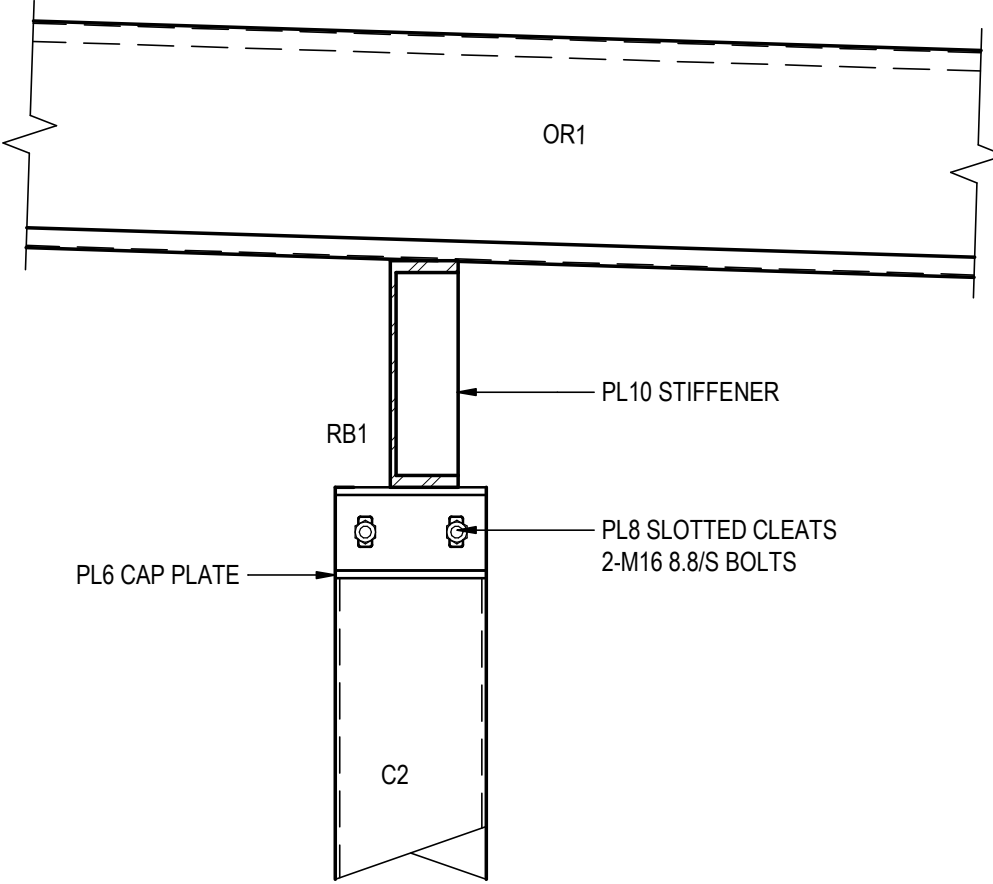
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DETAIL

SCALE 1:10

6

S05



DETAIL

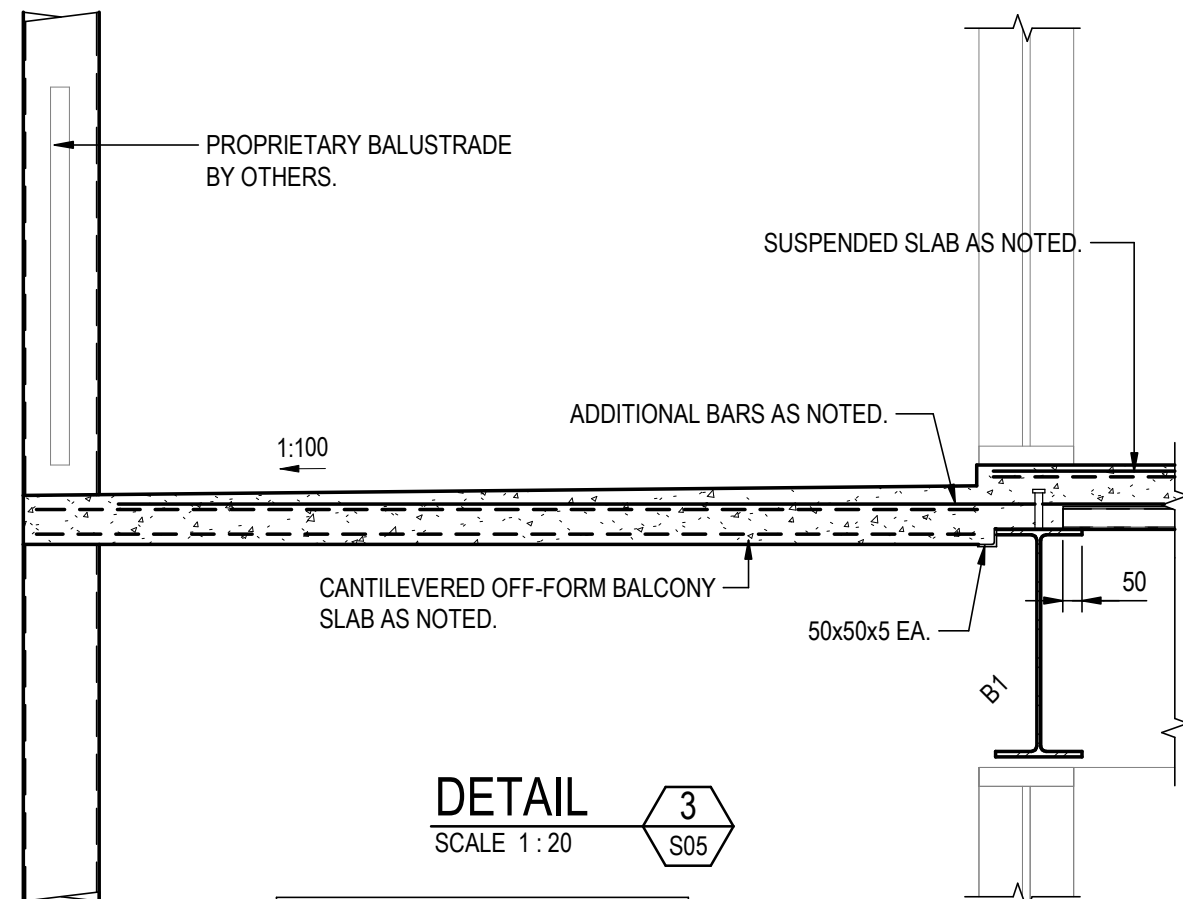
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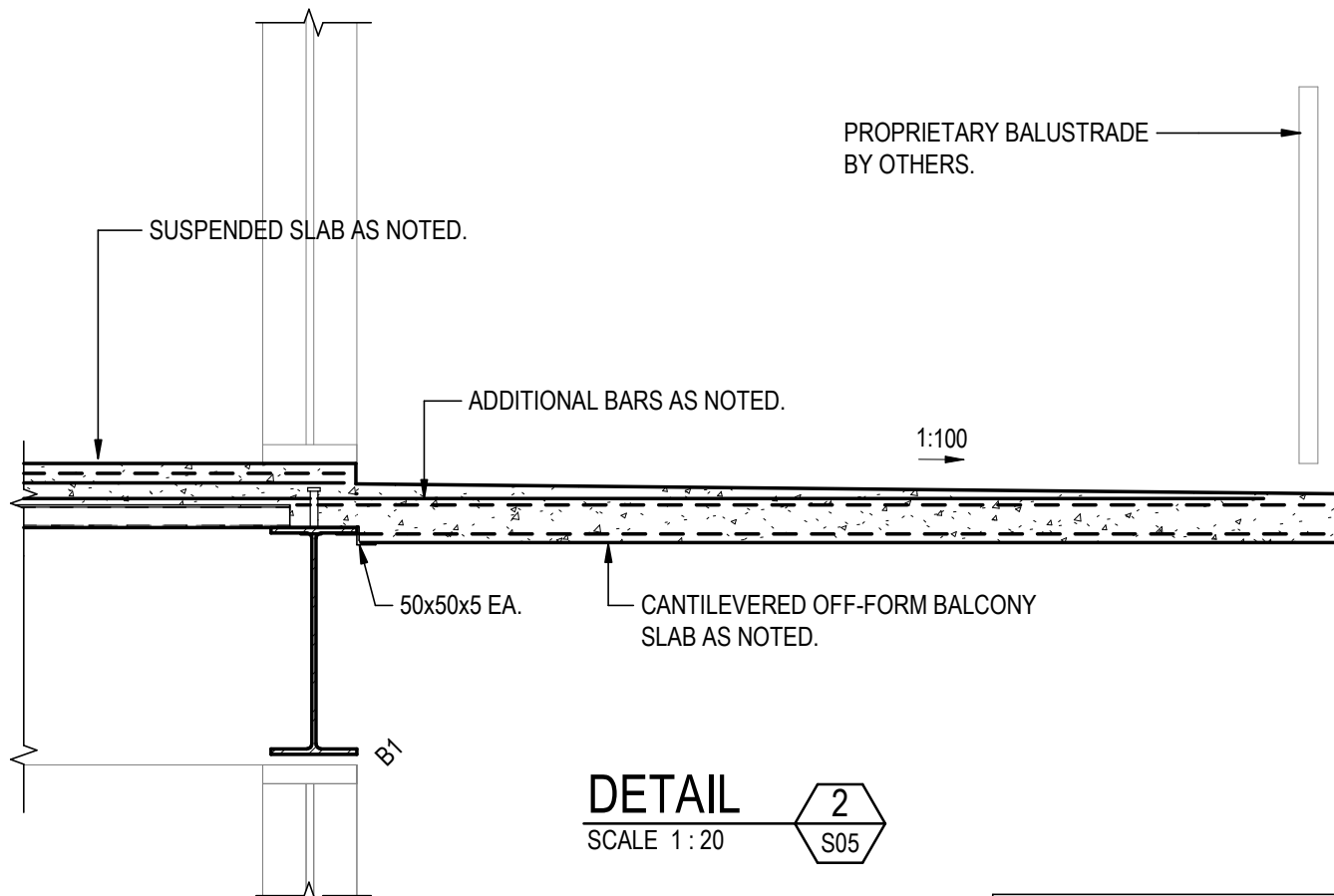
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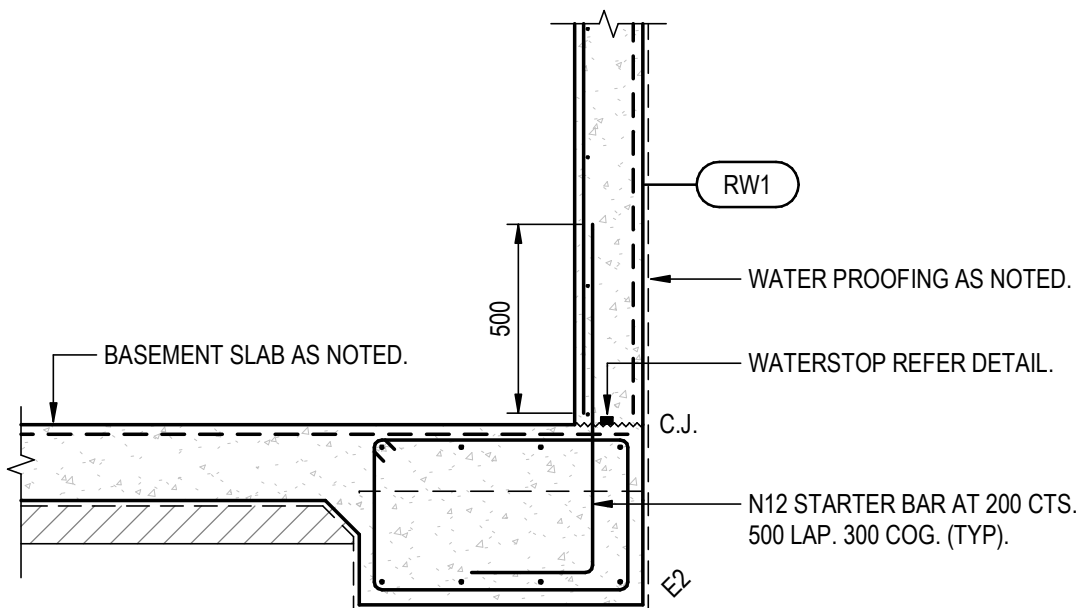
SECTION A
SCALE 1:100
S02



NOTE:
1. THIRD FLOOR TO BE THE SAME.



NOTE:
1. THIRD FLOOR TO BE THE SAME.



DETAIL

SCALE 1:20

4

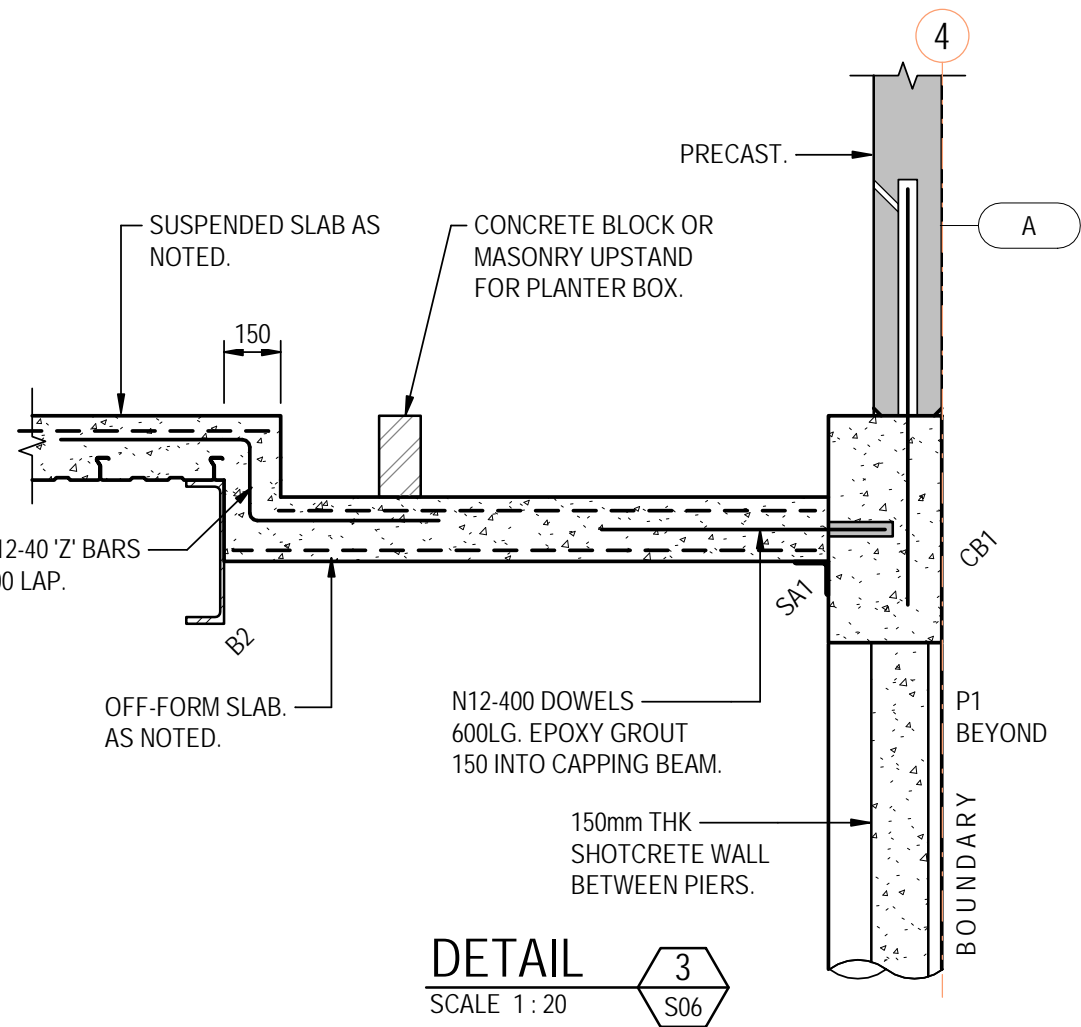
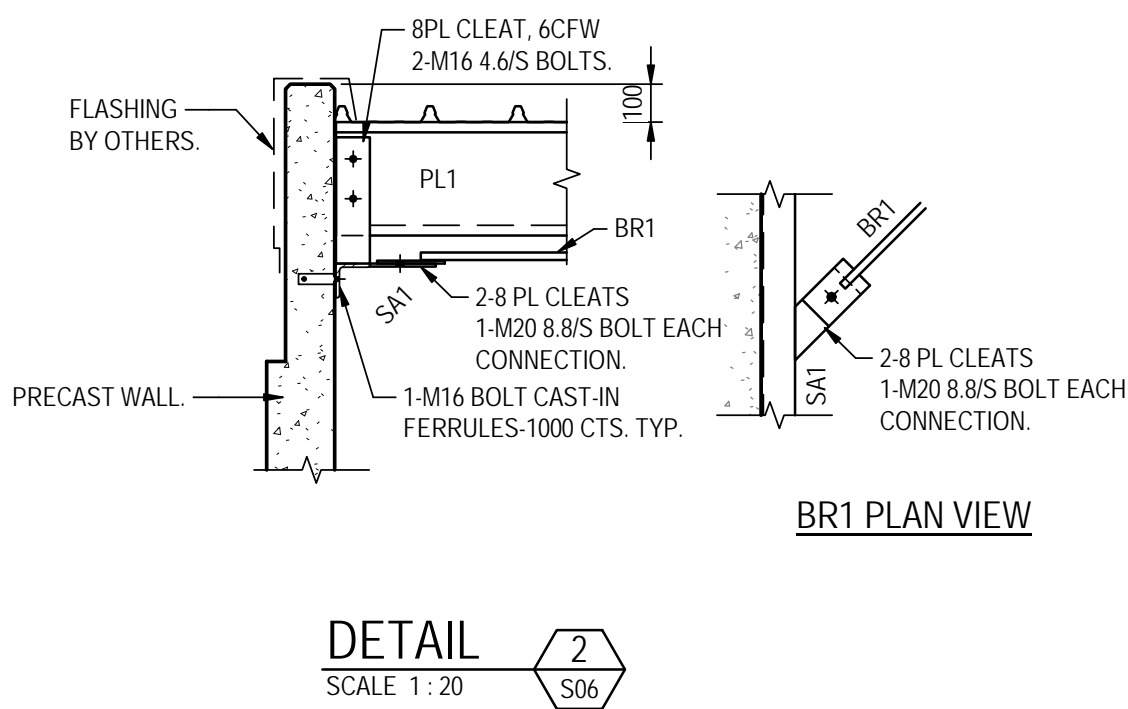
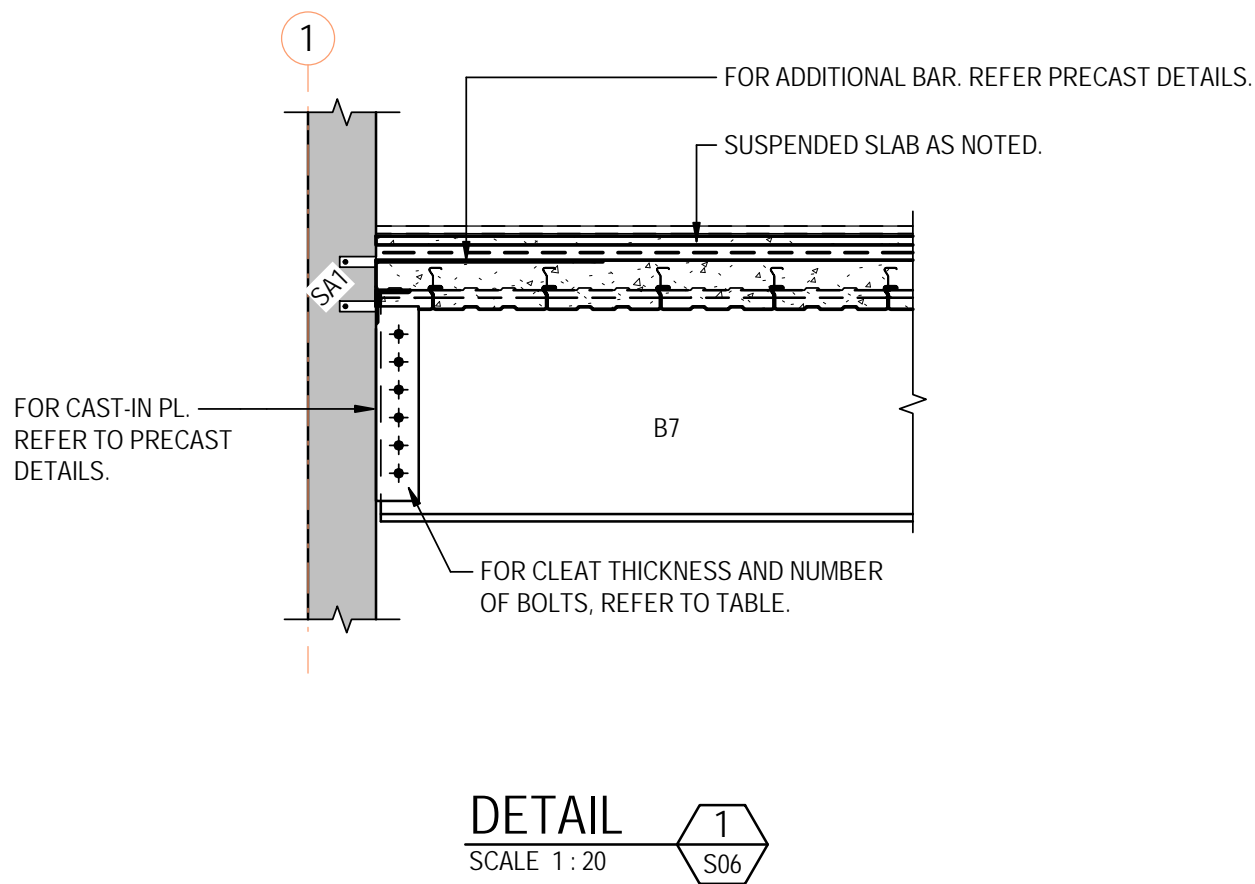
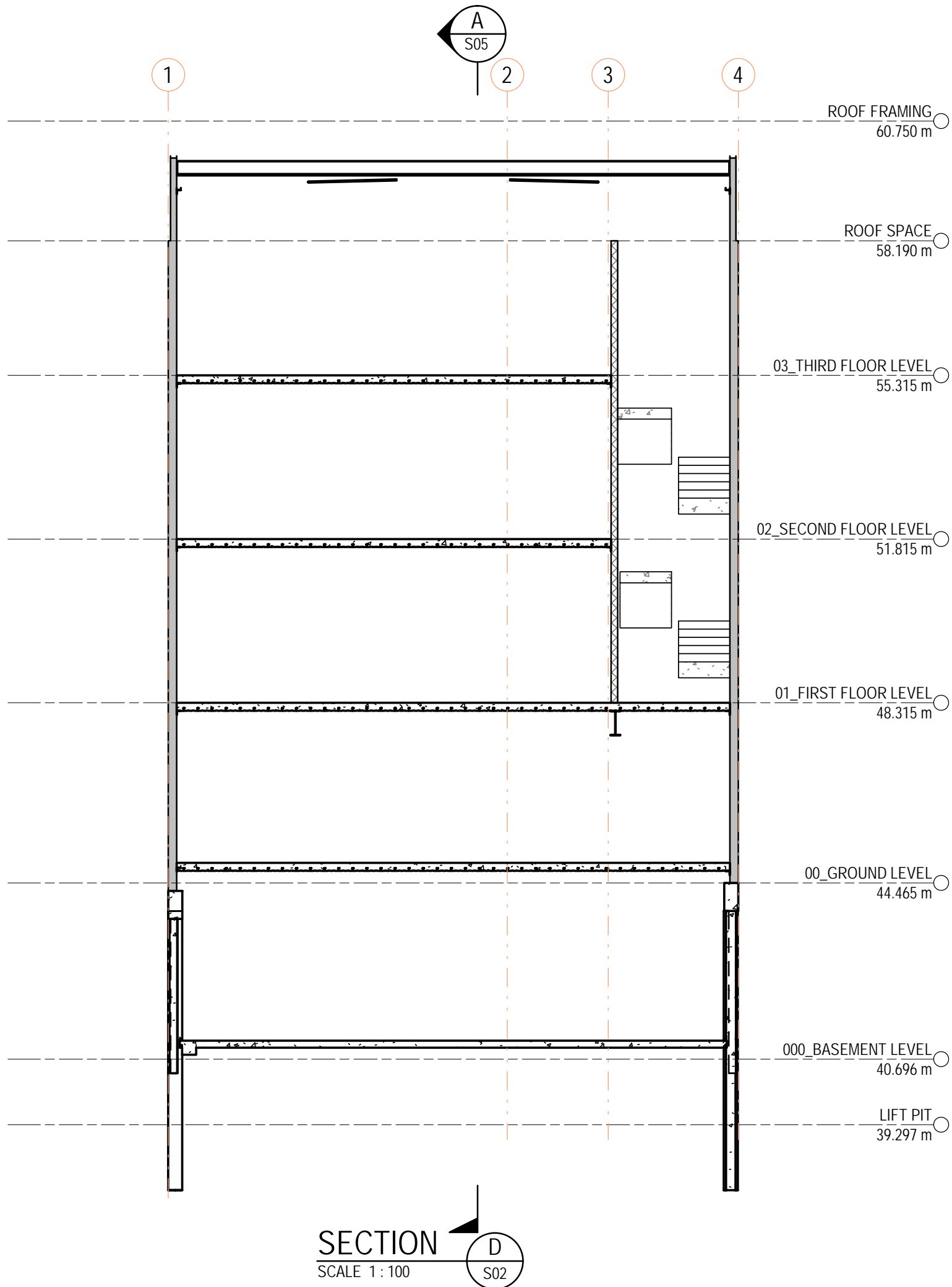
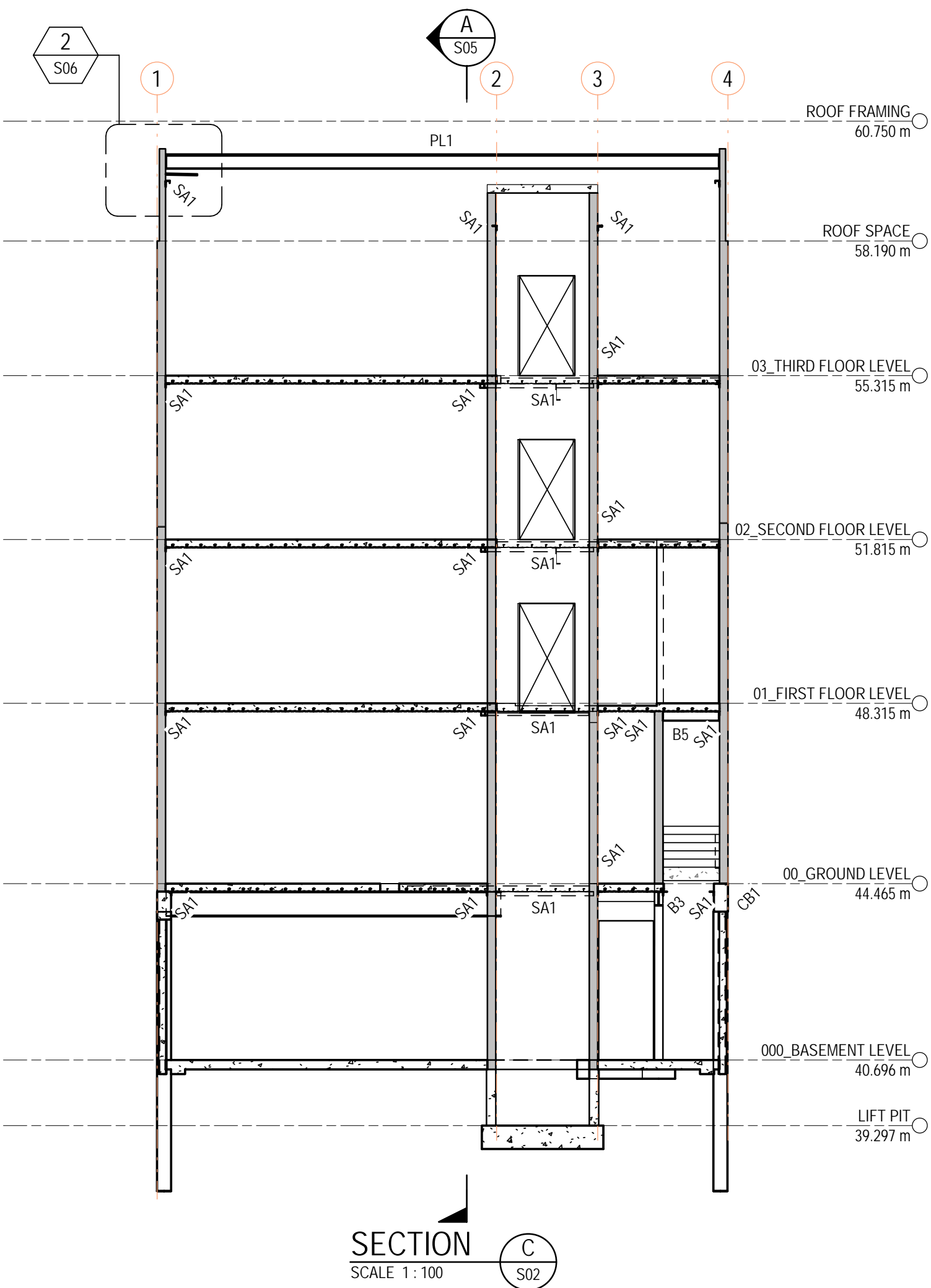
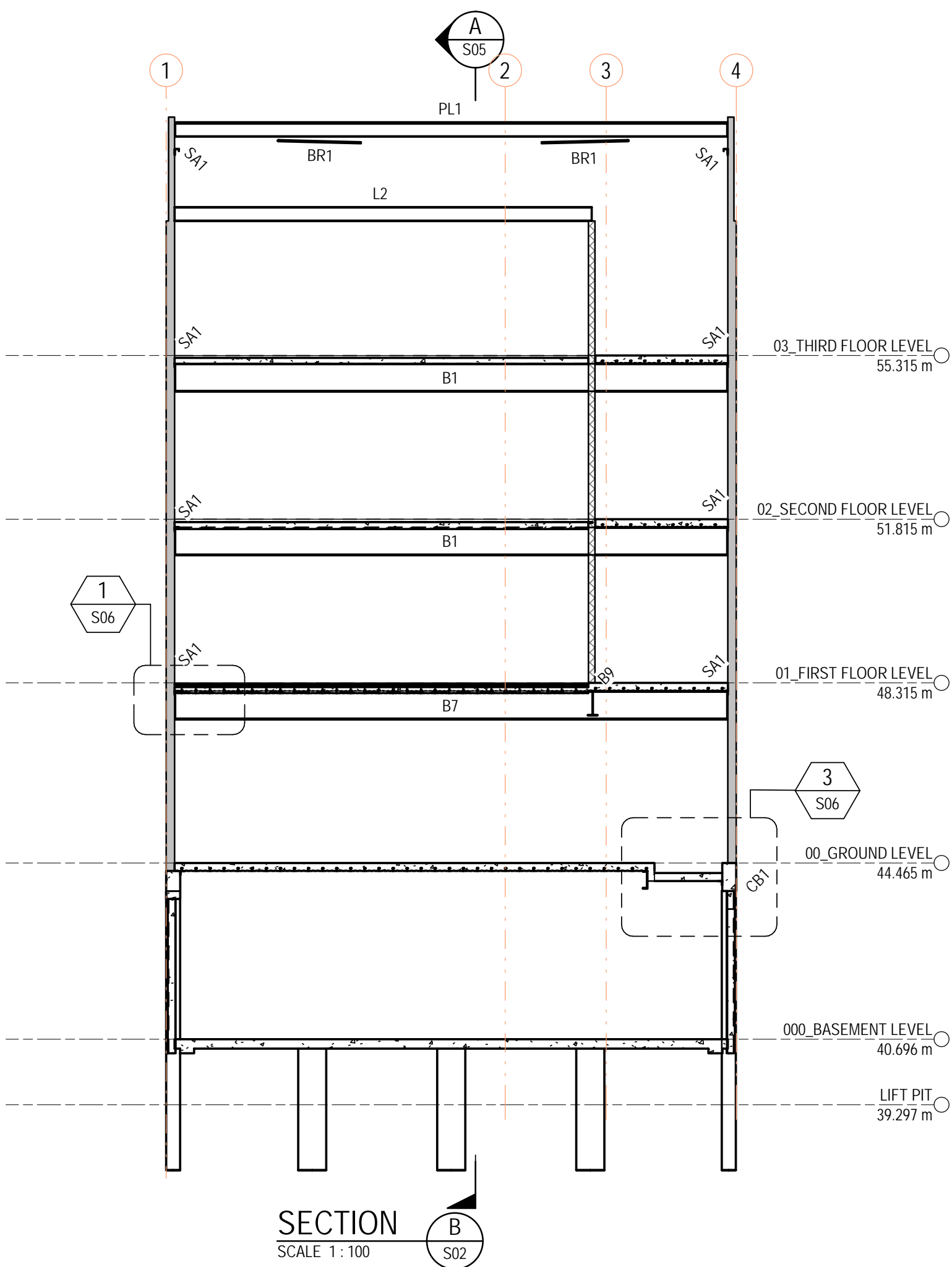
S05

ISSUED FOR CERTIFICATION
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Drawn	SGP	Scale	As indicated on A1
Design	JT	Drawing Number	
Approved			
Date	MARCH 18		2018-7161 S05

'UB' BEAM CLEAT TABLE			
BEAM	CLEAT THICKNESS (tmm)	BOLT (ø)	No BOLTS
200 UB	10	20	2
250 UB	10	20	2
310 UB	10	20	3
360 UB	10	20	4
410 UB	12	20	5
460 UB	12	20	5
530 UB	12	20	6
610 UB	12	20	7

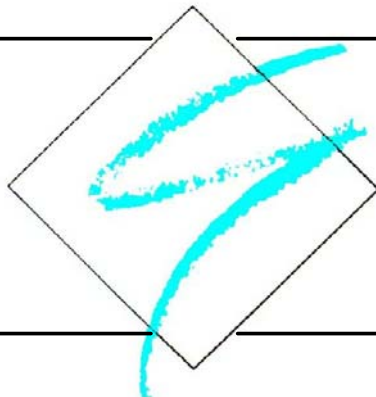
'PFC' BEAM CLEAT TABLE			
BEAM	CLEAT THICKNESS (tmm)	BOLT (ø)	No BOLTS
150 PFC	10	16	2
180 PFC	10	16	2
200 PFC	10	20	2
250 PFC	10	20	2
300 PFC	10	20	3



Issue	Date	Amendment
D	22/6/18	CERTIFICATION - LIFT CHANGES
C	29/5/18	CERTIFICATION
B	26/4/18	PRELIMINARY WIP
A	29/3/18	PRELIMINARY WIP

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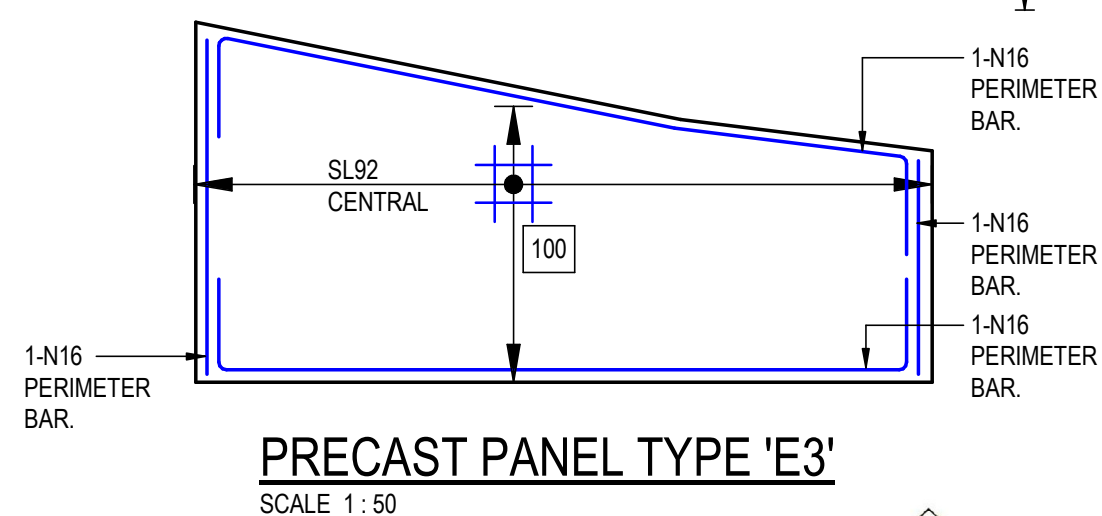
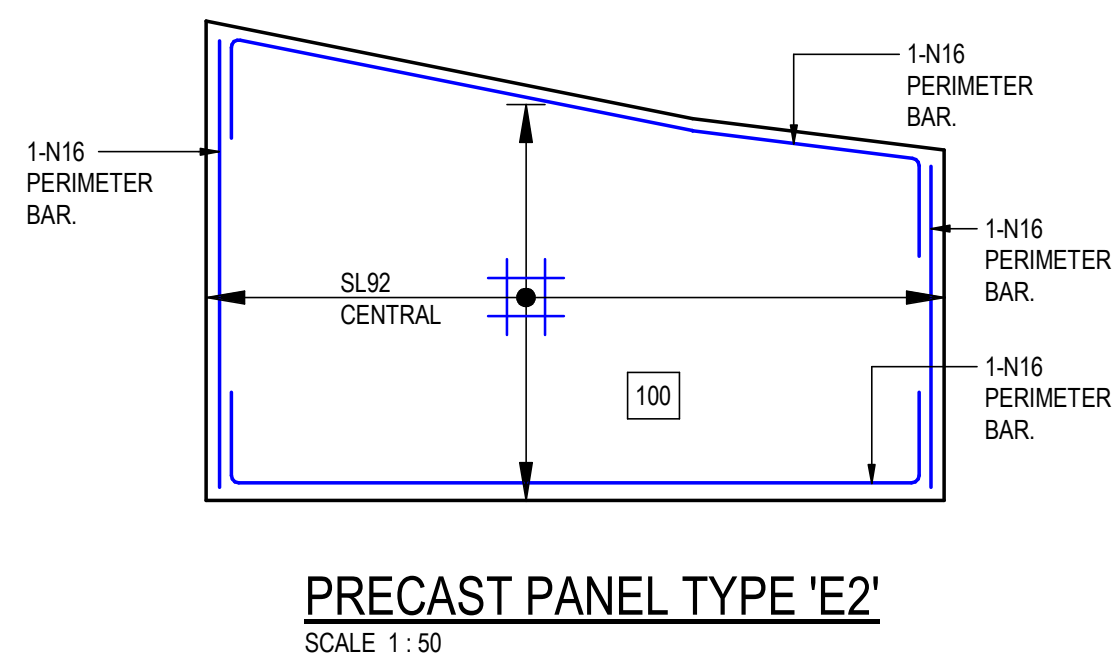
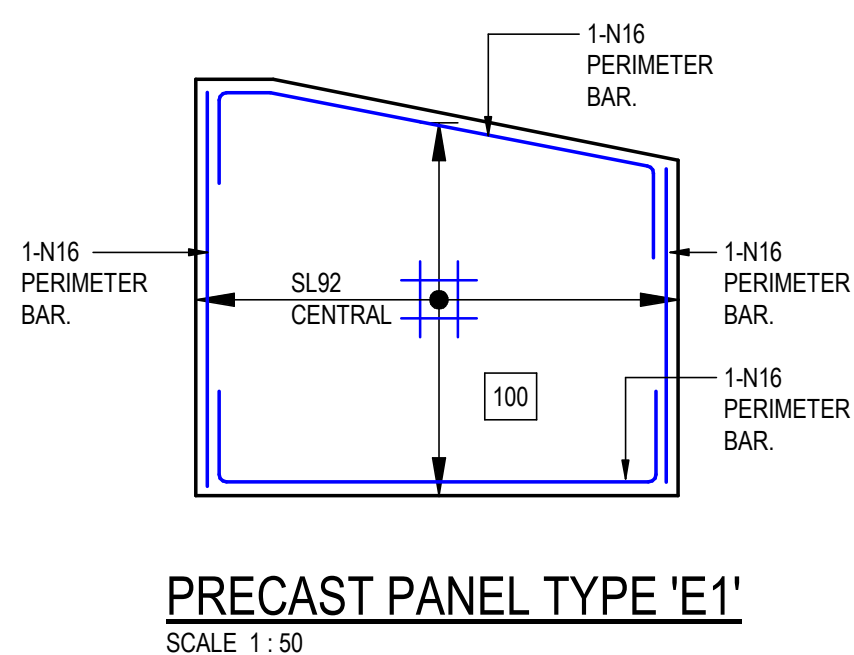
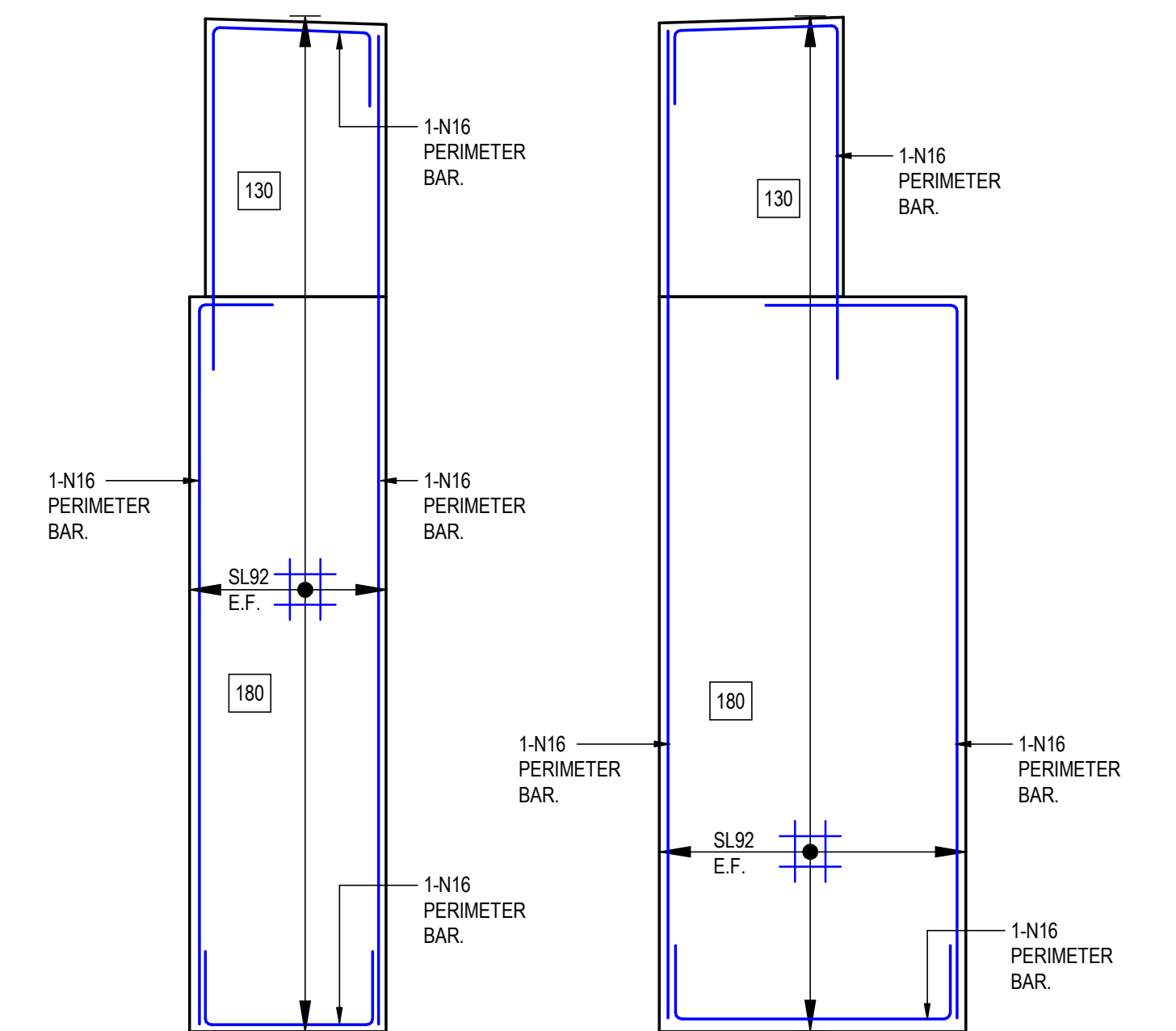
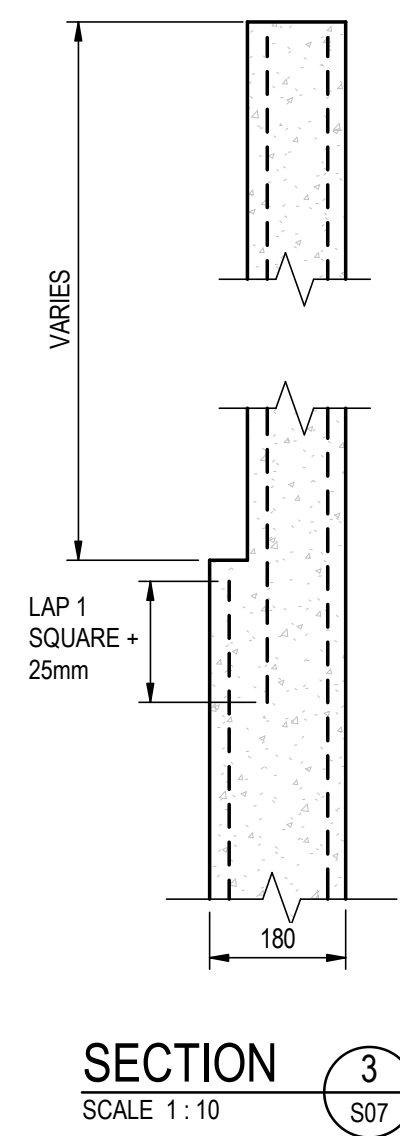
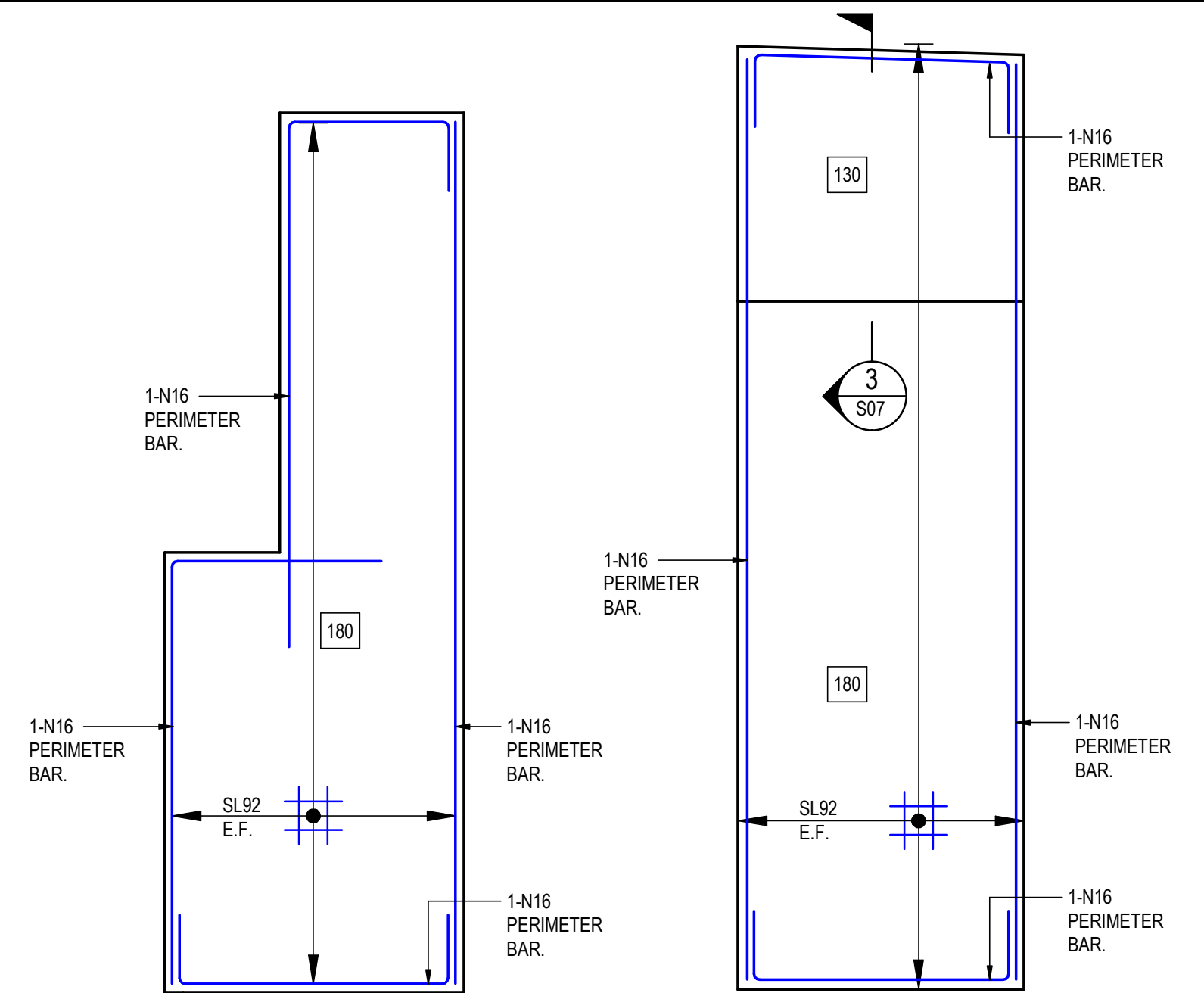
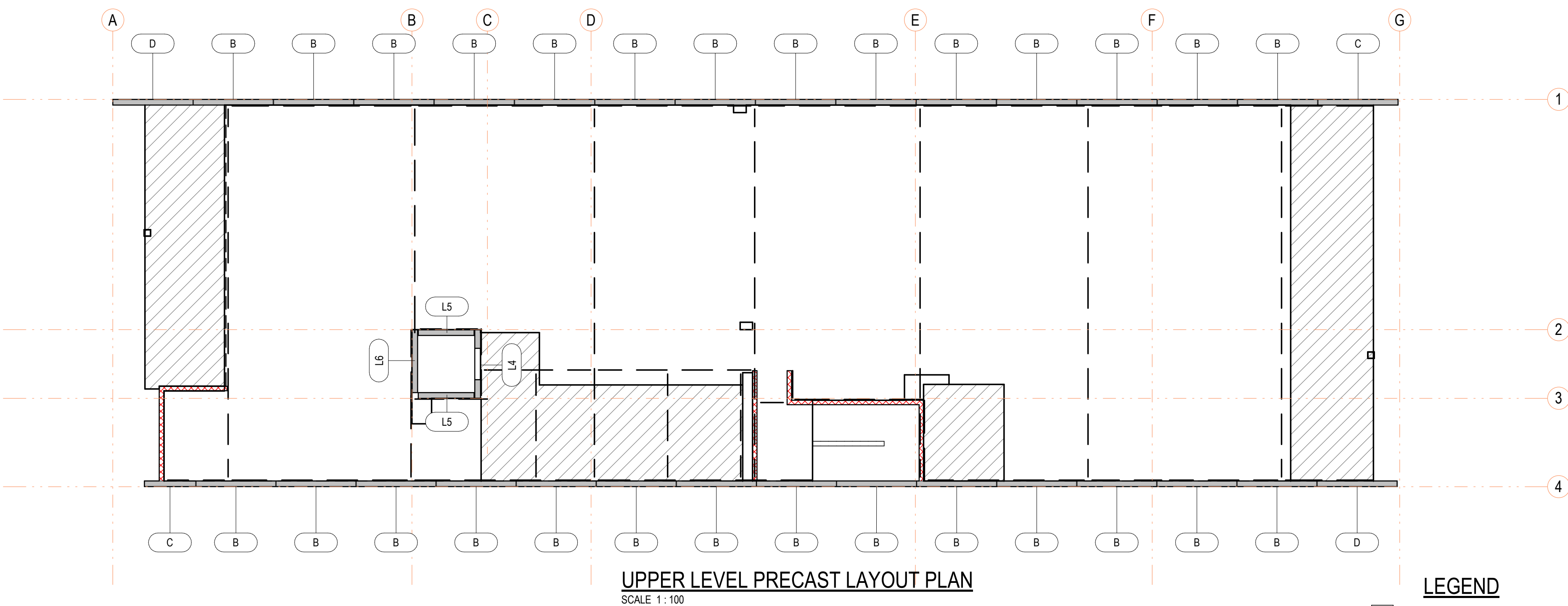
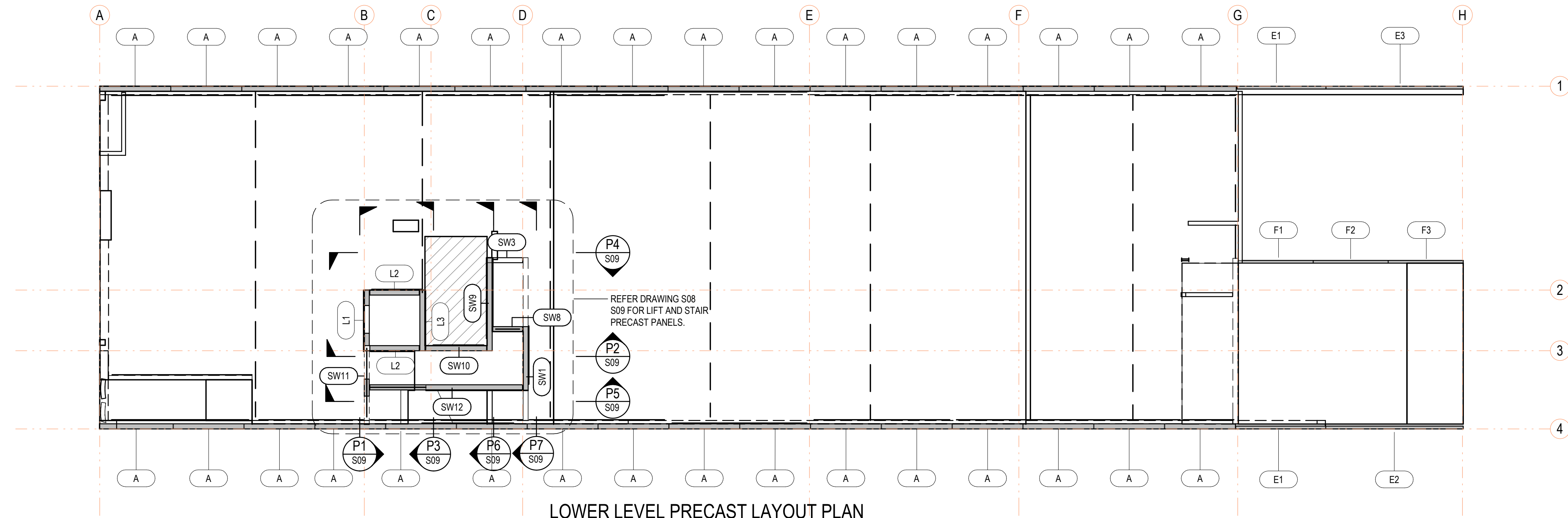
GINOS ENGINEERING PTY LTD
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ANTHONY DONATO ARCHITECTS
SECTIONS SHEET 2

Drawn	SGP	Scale	As indicated on A1
Design	JT	Drawing Number	
Approved			
Date	MARCH 18		

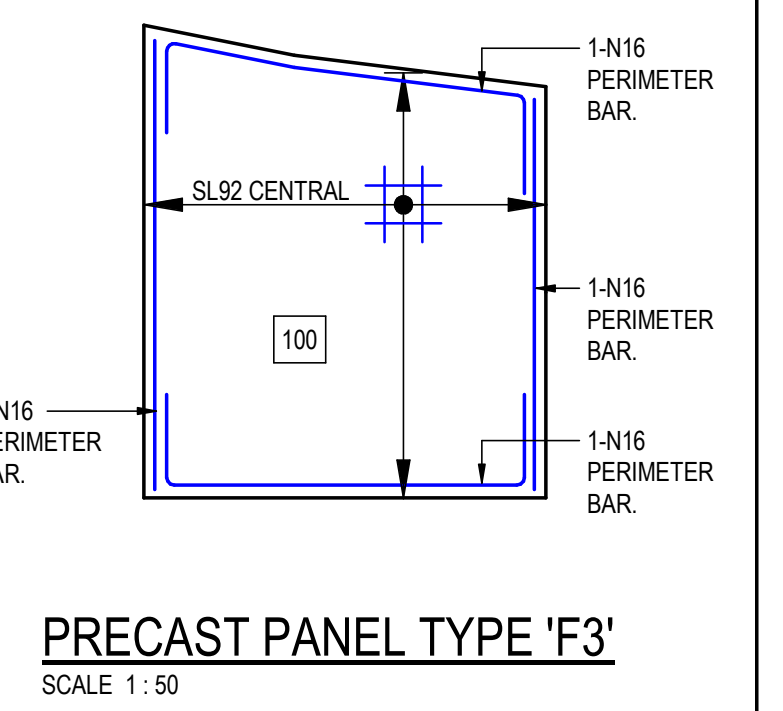
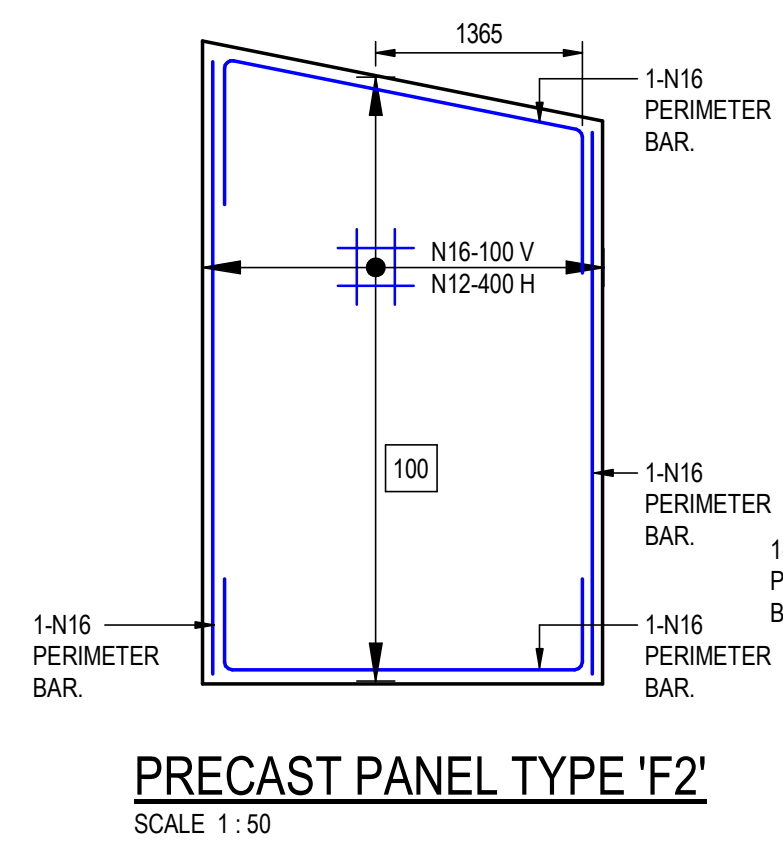
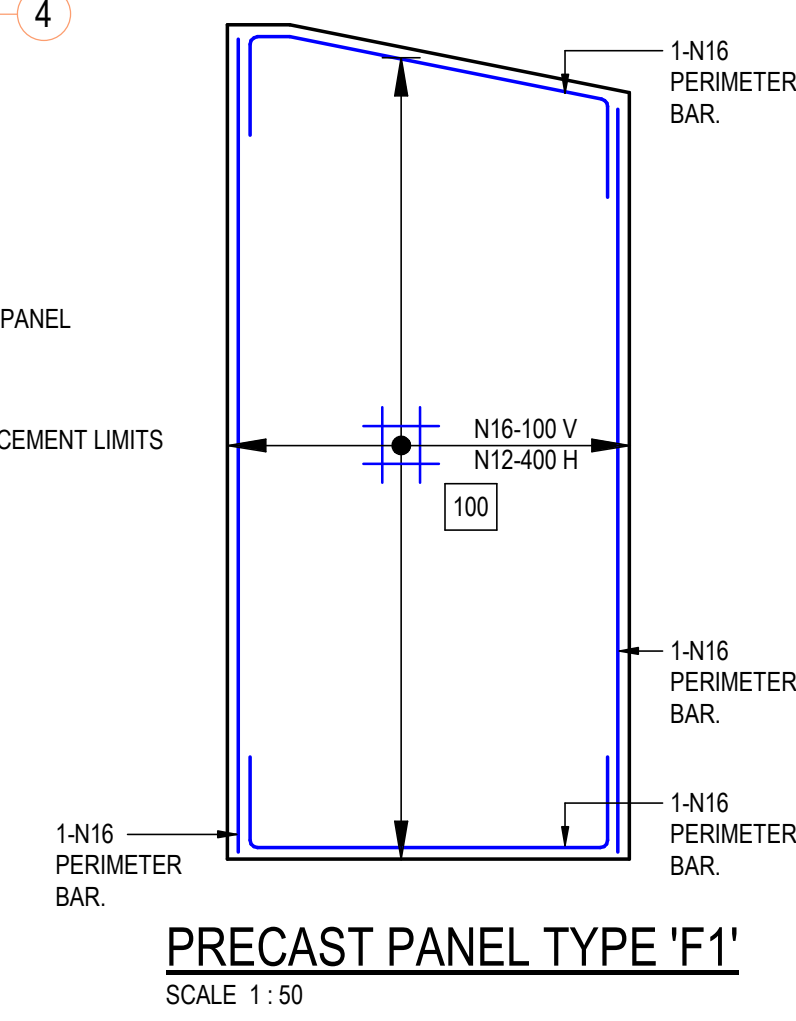
2018-7161 S06



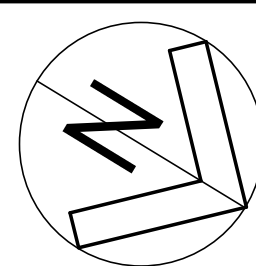
LEGEND

180 DENOTES THICKNESS OF PANEL

SL92 DENOTES AREA REINFORCEMENT LIMITS

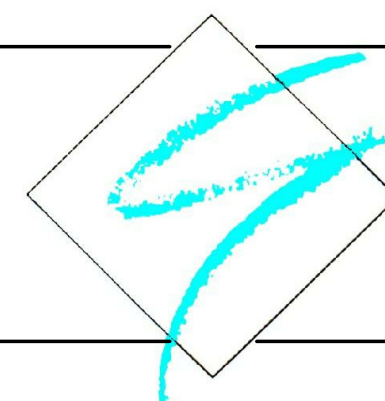


Issue	Date	Amendment
B	29/5/18	CERTIFICATION
A	26/4/18	PRELIMINARY WIP



ISSUED FOR CERTIFICATION
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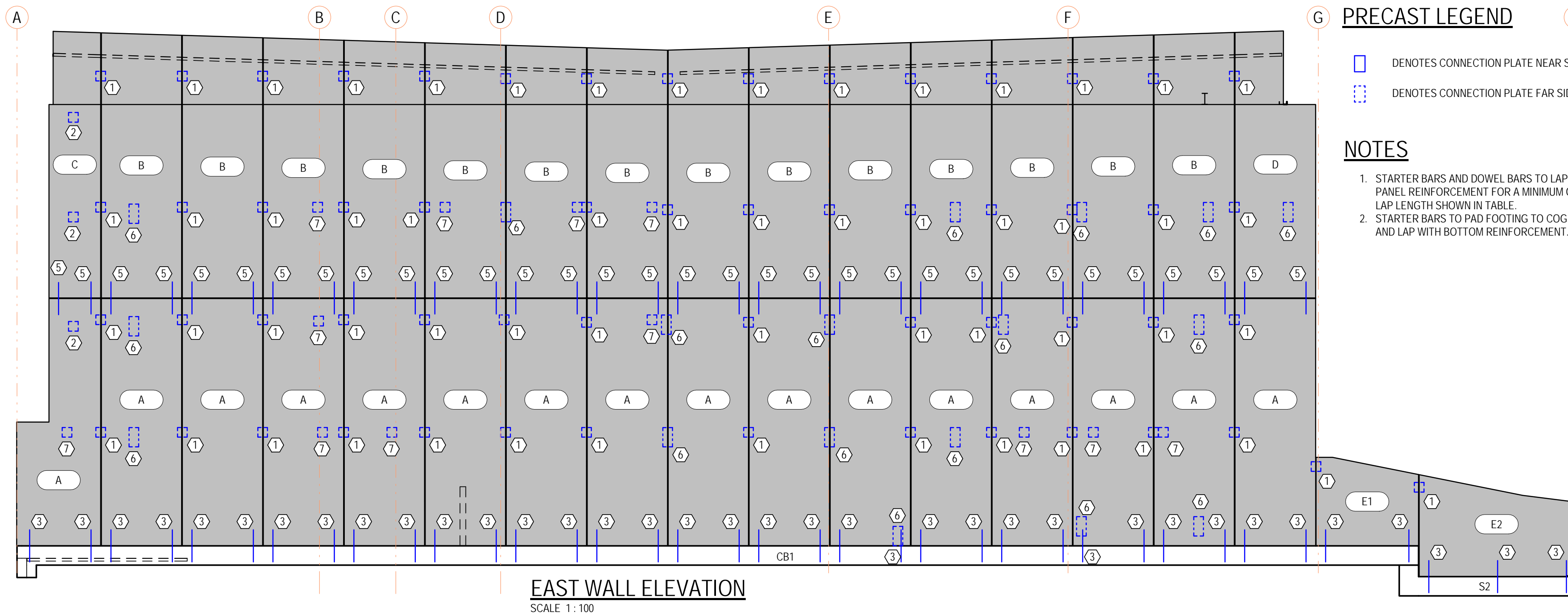
GINOS ENGINEERING PTY LTD
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ANTHONY DONATO ARCHITECTS
PRECAST PANEL LAYOUT PLAN AND PANEL TYPES

Drawn	SGP	Scale	As indicated on A1
Design	JT	Drawing Number	
Approved			
Date	MARCH 18		

2018-7161 S07

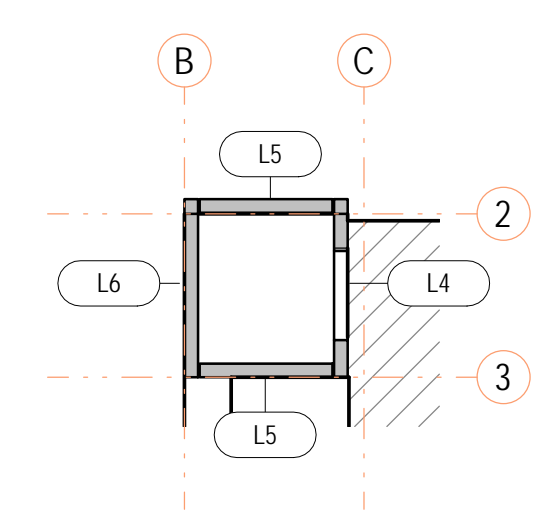
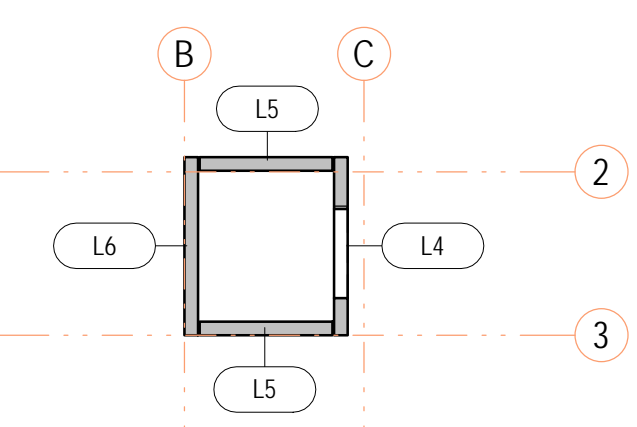
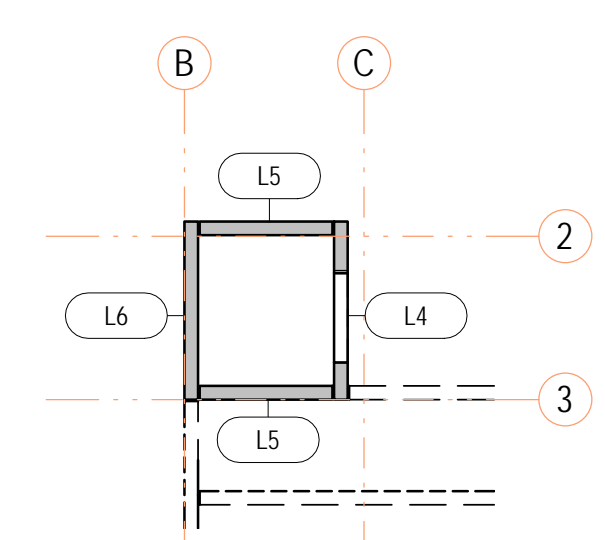
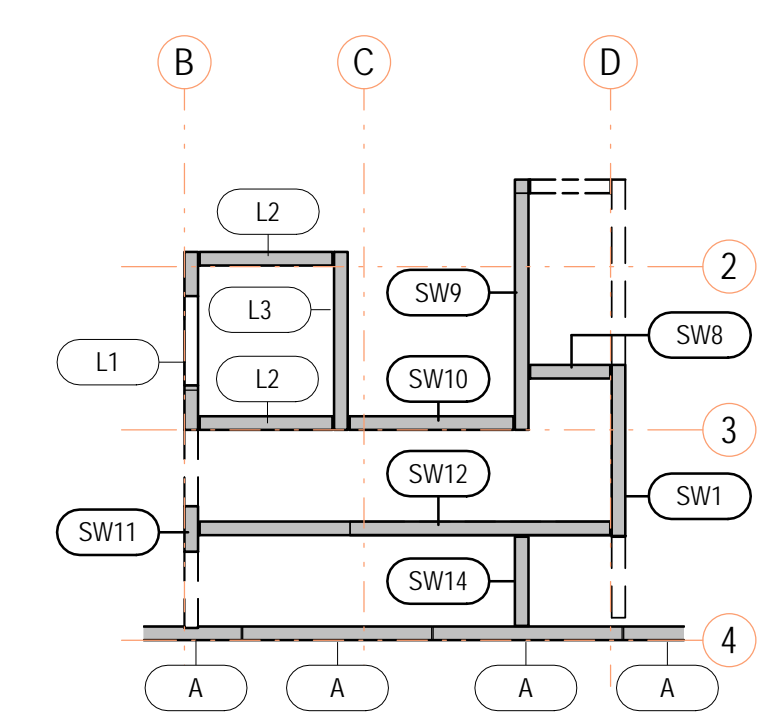
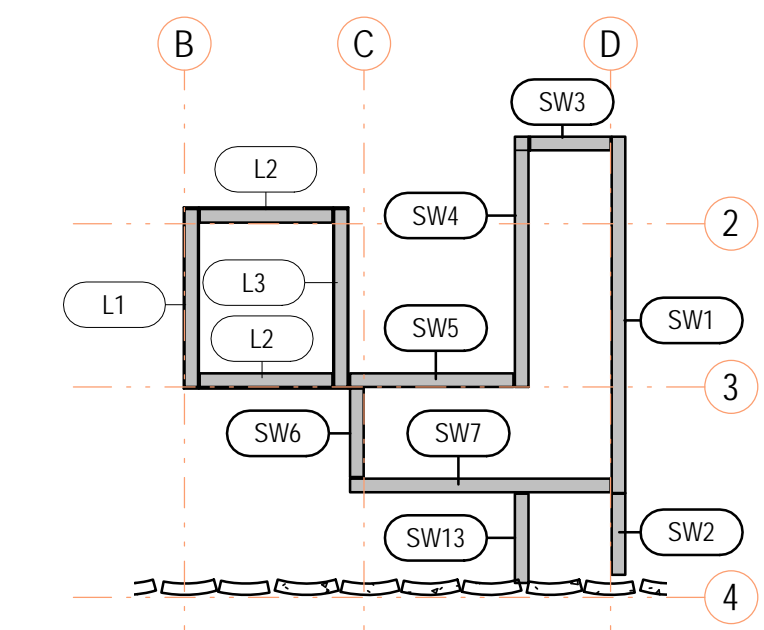
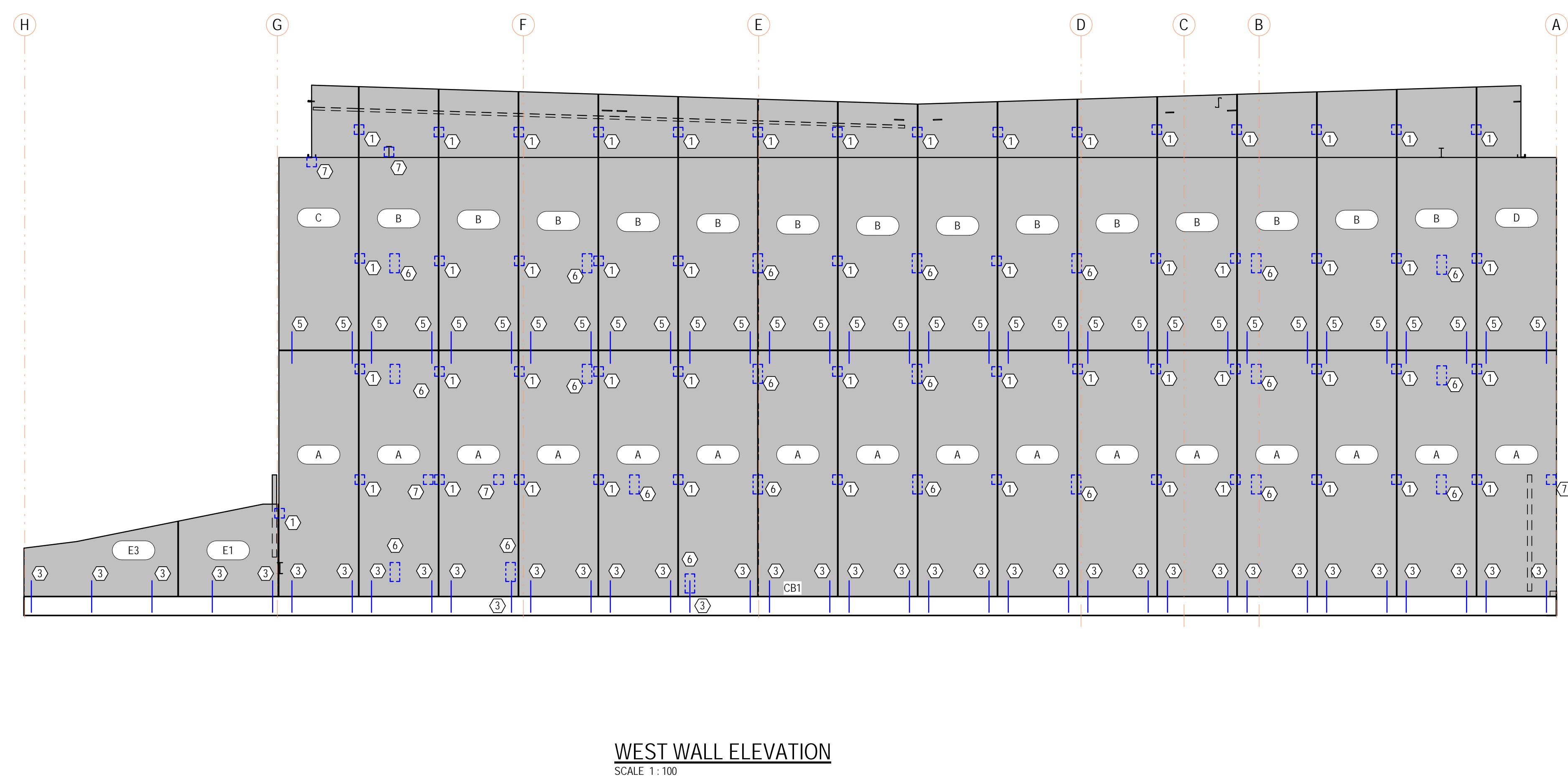


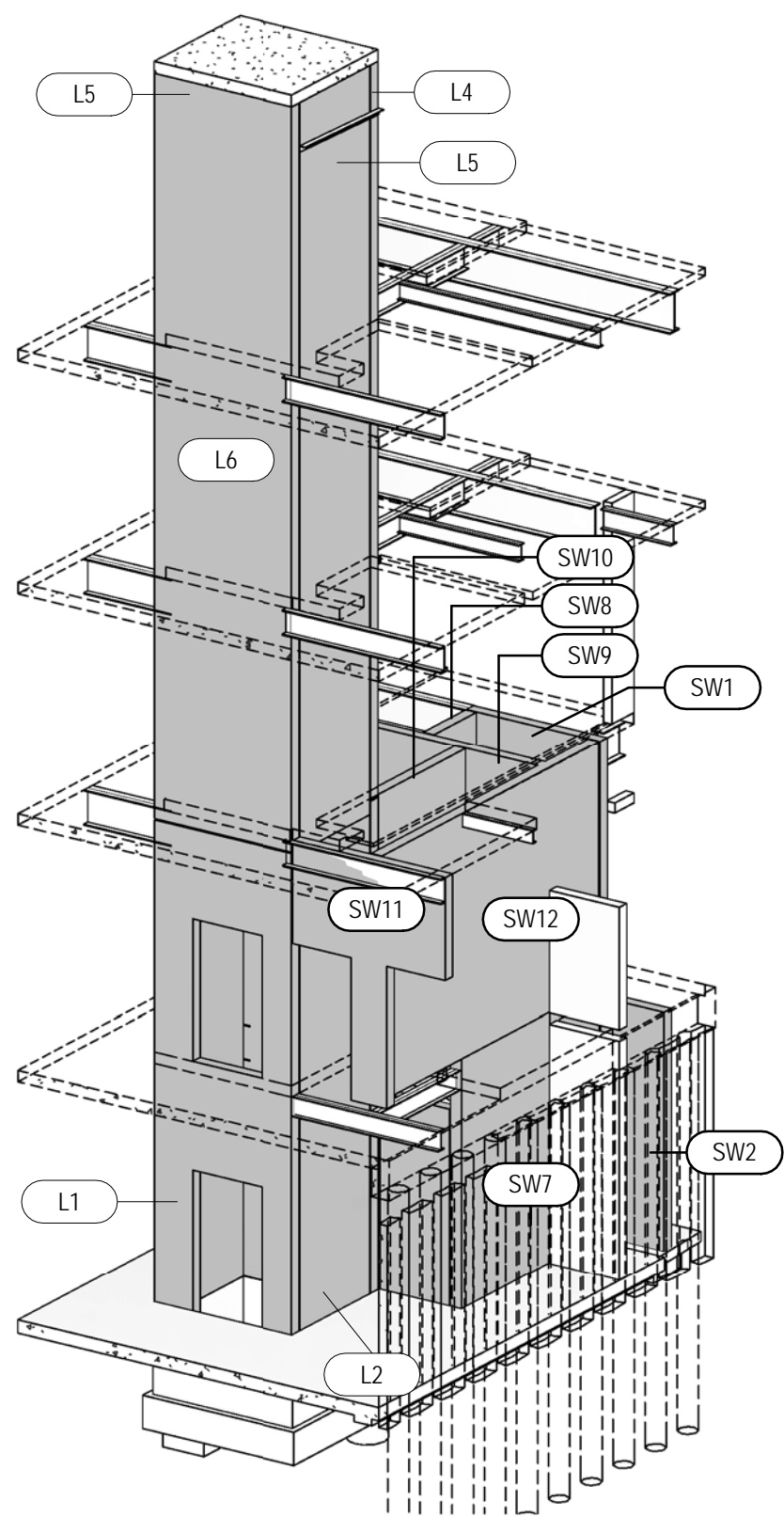
PRECAST LEGEND

- DENOTES CONNECTION PLATE NEAR SIDE
- DENOTES CONNECTION PLATE FAR SIDE

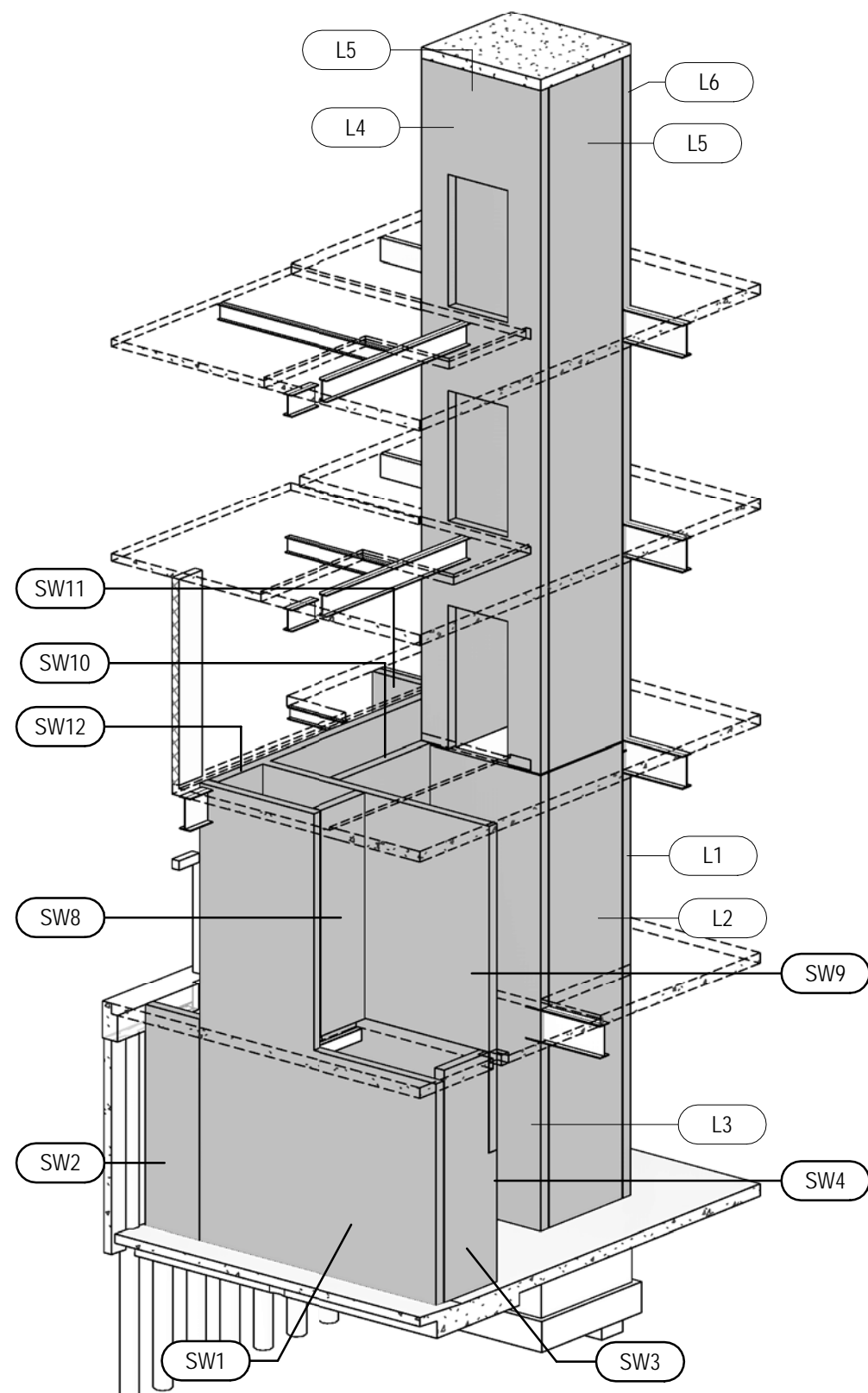
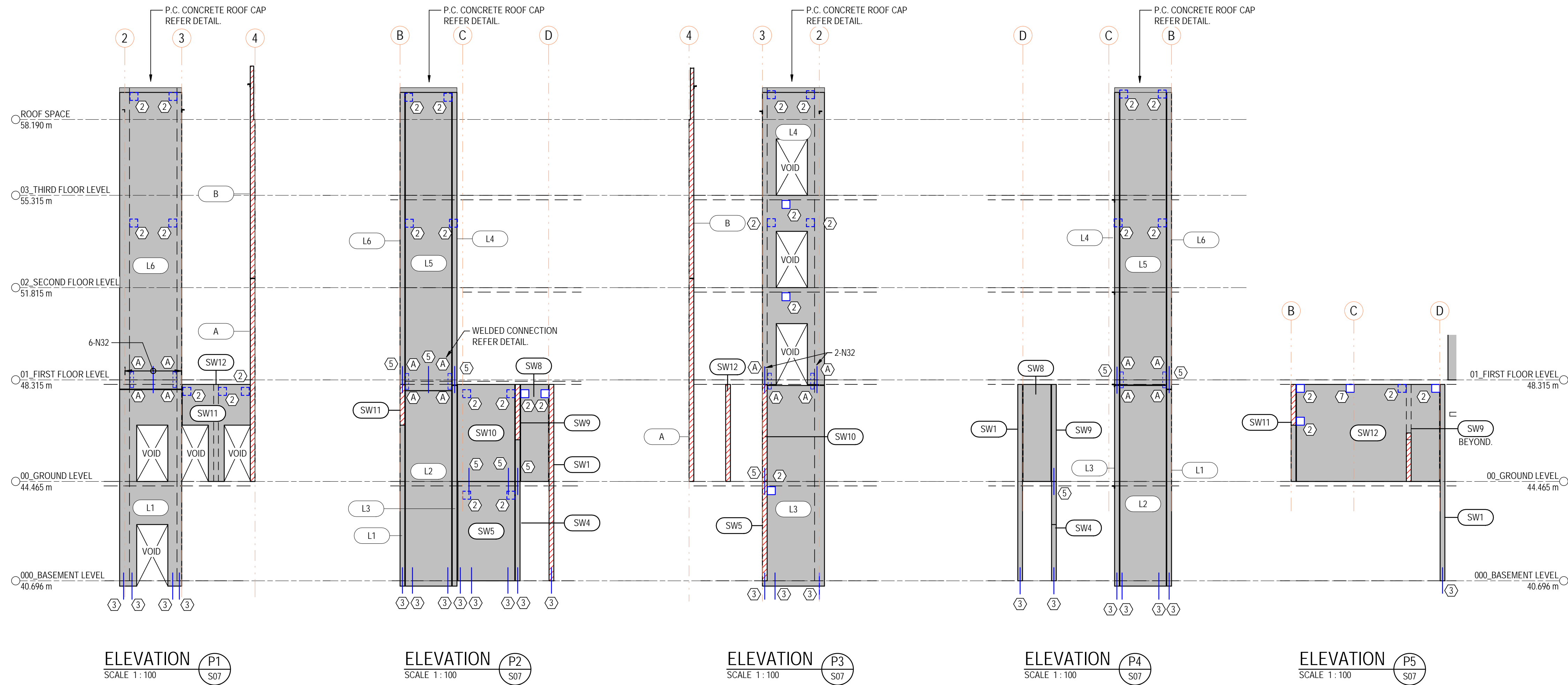
NOTES

- STARTER BARS AND DOWEL BARS TO LAP WITH PANEL REINFORCEMENT FOR A MINIMUM OF LAP LENGTH SHOWN IN TABLE.
- STARTER BARS TO PAD FOOTING TO COG 300 AND LAP WITH BOTTOM REINFORCEMENT.

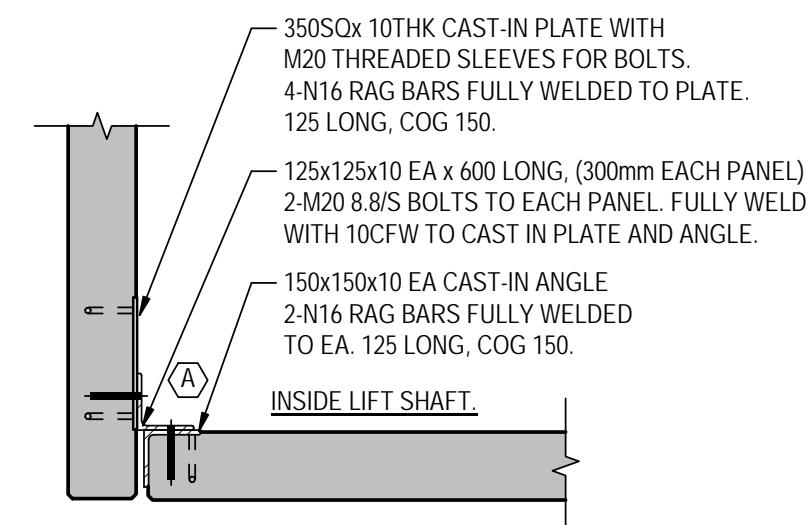
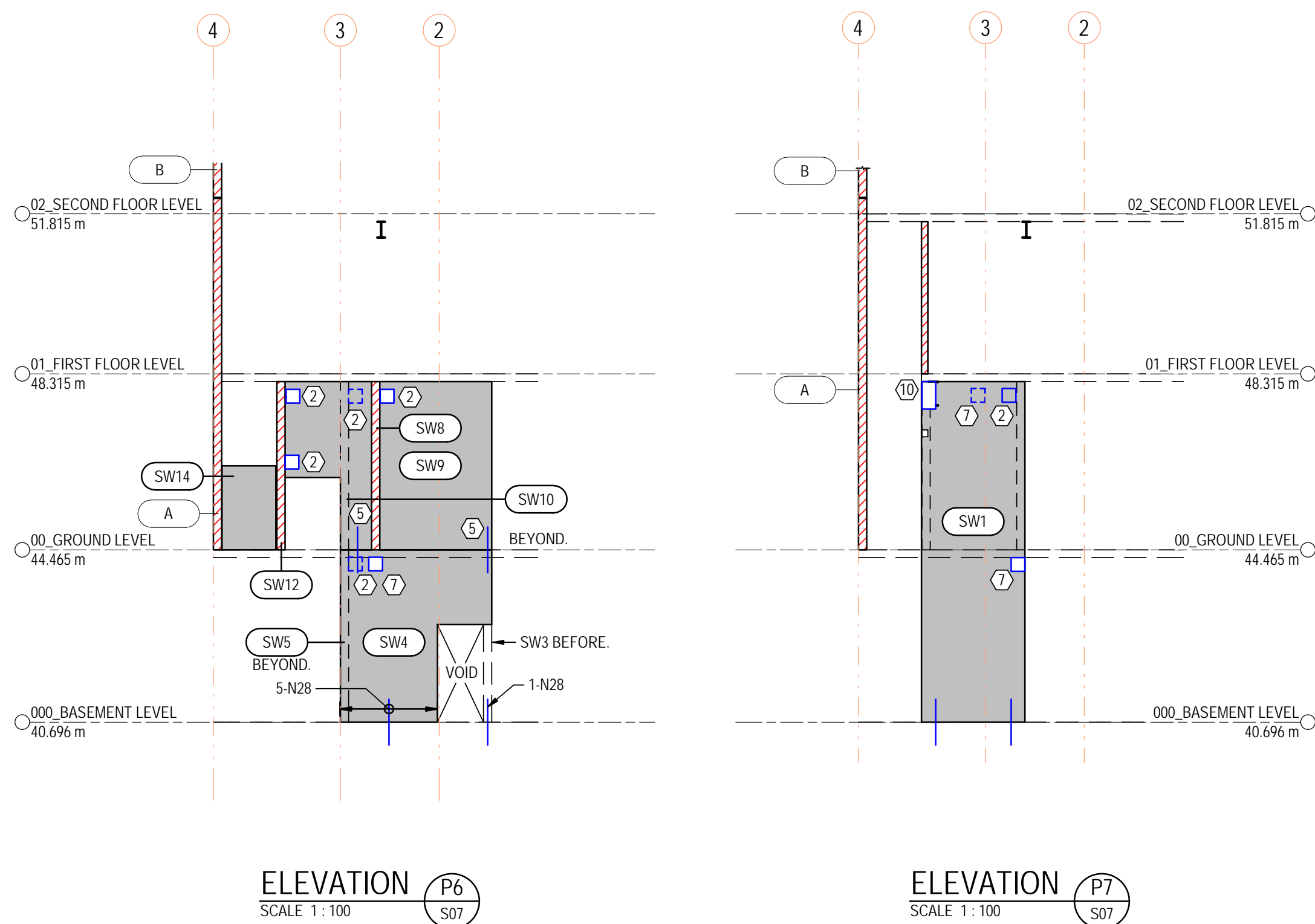




LIFT & STAIRWELL PRECAST ISOMETRIC VIEW 1
LIFT ROOF CAP OMITTED FOR CLARITY



LIFT & STAIRWELL PRECAST ISOMETRIC VIEW 2
LIFT ROOF CAP OMITTED FOR CLARITY

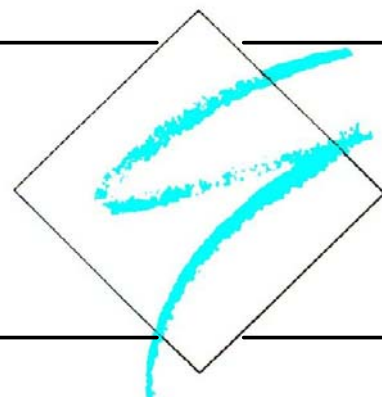


TYPICAL WELDED CONNECTION (A)
SCALE 1:20

Issue	Date	Amendment
C	22/6/18	CERTIFICATION - LIFT CHANGES
B	29/5/18	CERTIFICATION
A	26/4/18	PRELIMINARY WIP

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97 KING WILLIAM STREET
KENT TOWN SA

ANTHONY DONATO ARCHITECTS

LIFT SHAFT & BASEMENT TO GROUND FLOOR STAIRWELL

Drawn	Author	Scale	As indicated on A1
Design	Designer	Drawing Number	
Approved			
Date	MARCH 18		

2018-7161 S09

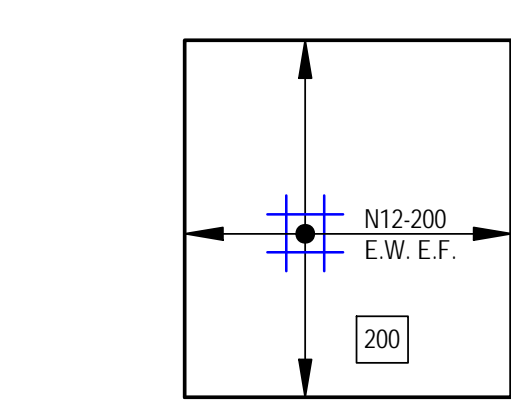
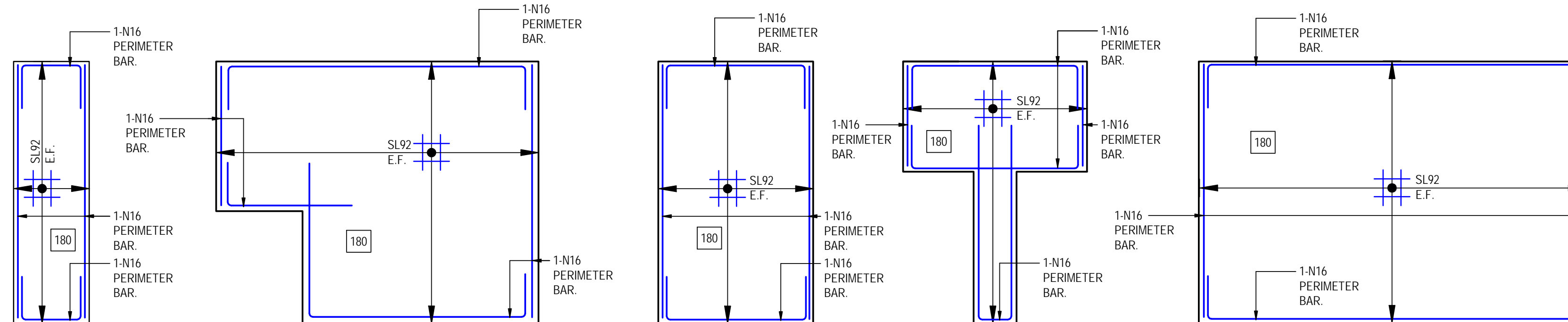
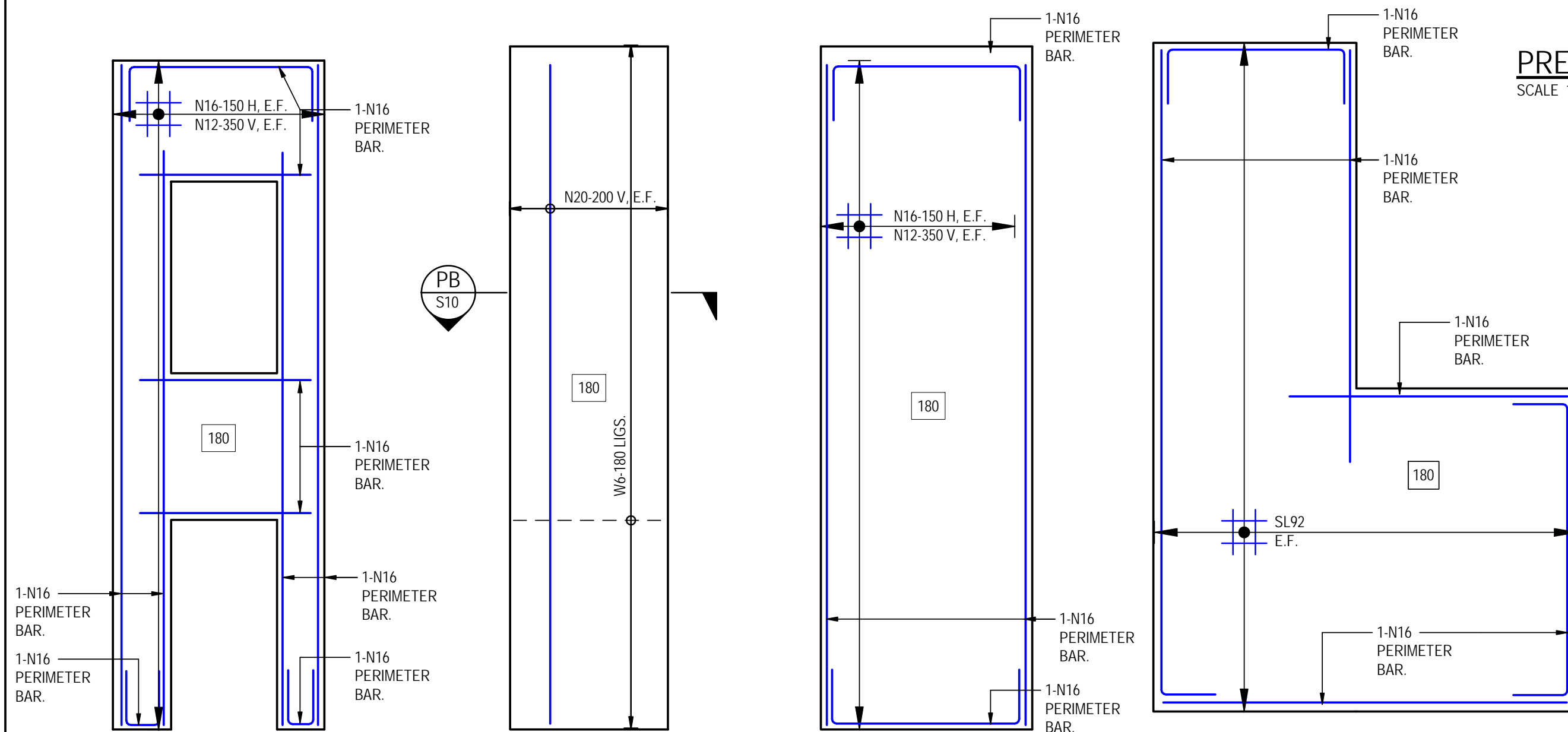


Diagram of a cable tray assembly. The tray is labeled "W6-180 LIGS. TYP." and "N20-200 V, E.F. TYP." The tray contains several cables, each labeled "N20-200 V, E.F. TYP." The tray is supported by a series of hangers.

SECTION PB
SCALE 1 : 20
S10

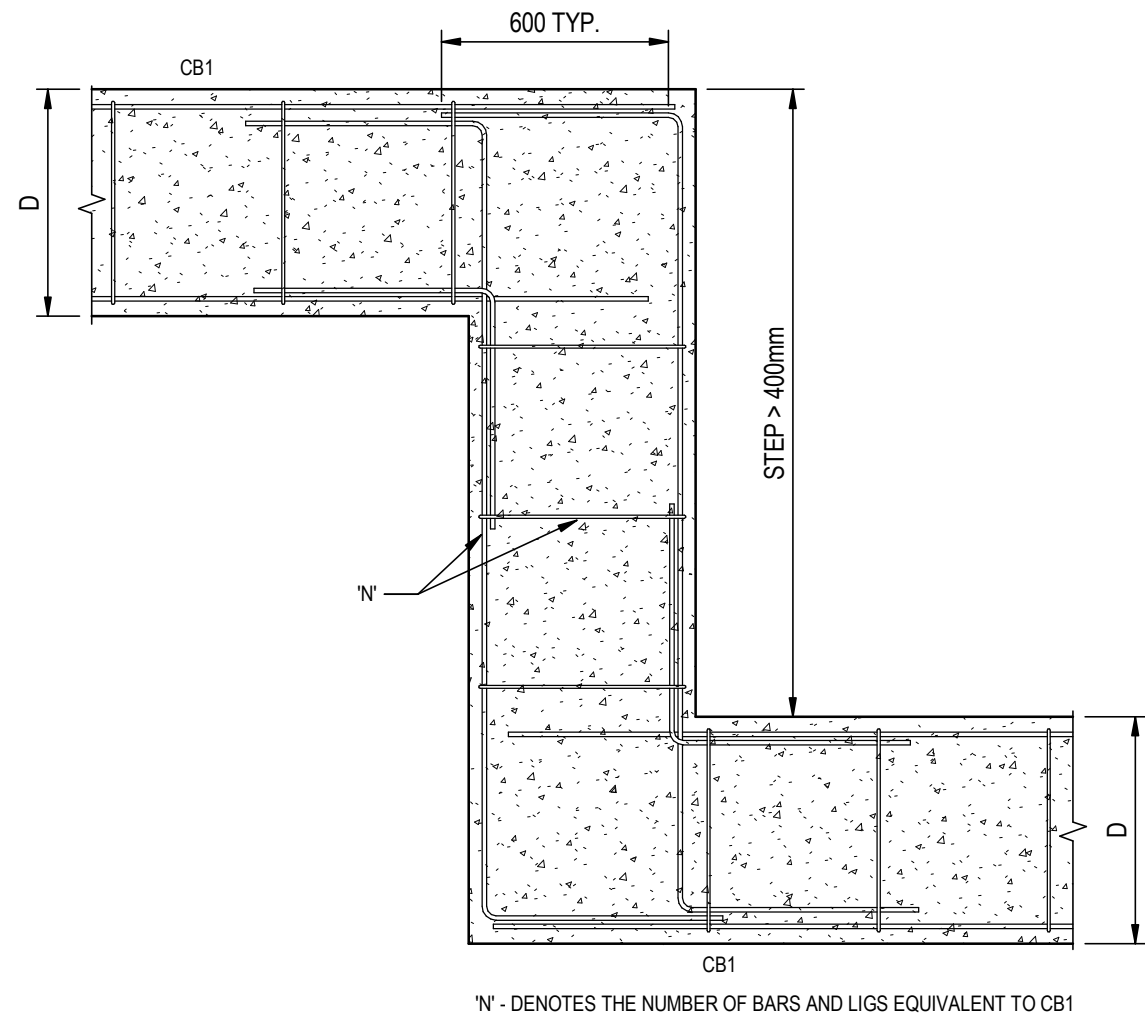


PRECAST PANEL SW12
SCALE 1 : 50

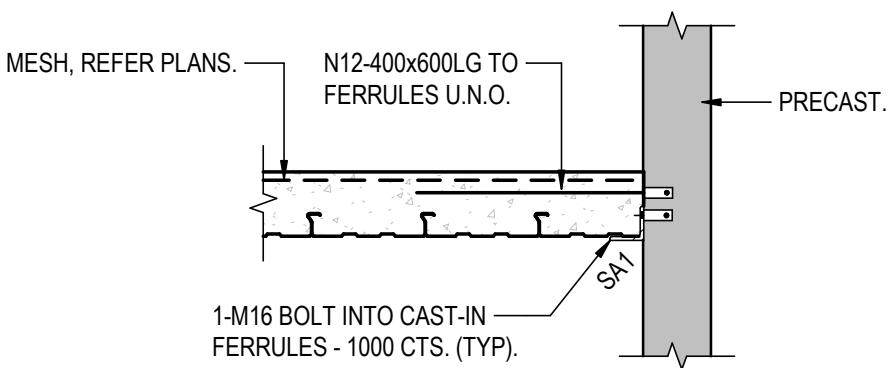


PRECAST PANEL SW7
SCALE 1:50

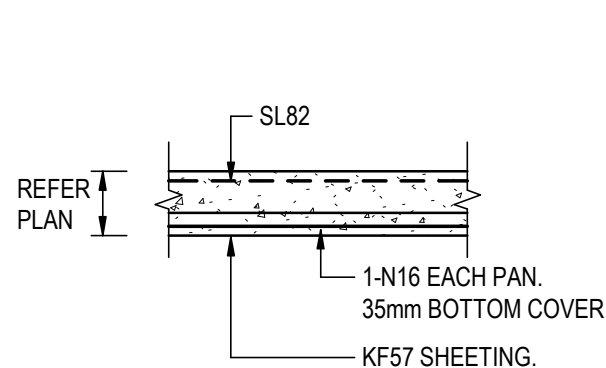
Drawn	Author	Scale	As indicated on A1
Design	Designer	Drawing Number	
Approved		2018-7161 S10	
Date	MARCH 18		



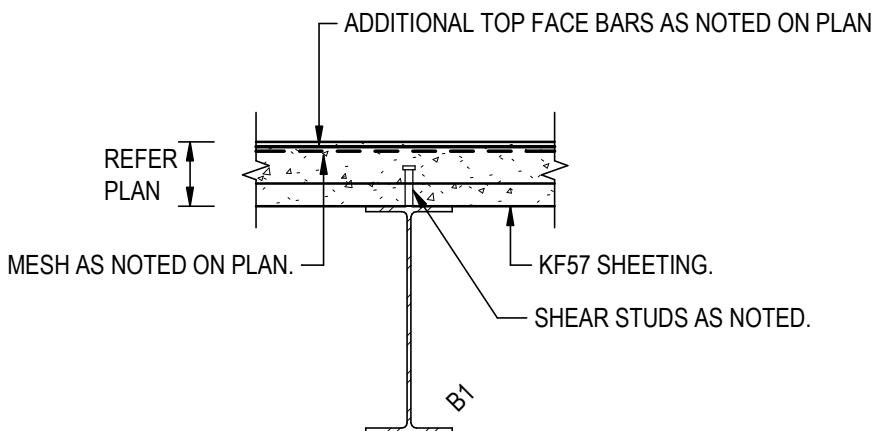
TYPICAL CB1 STEP DETAIL
SCALE 1:20



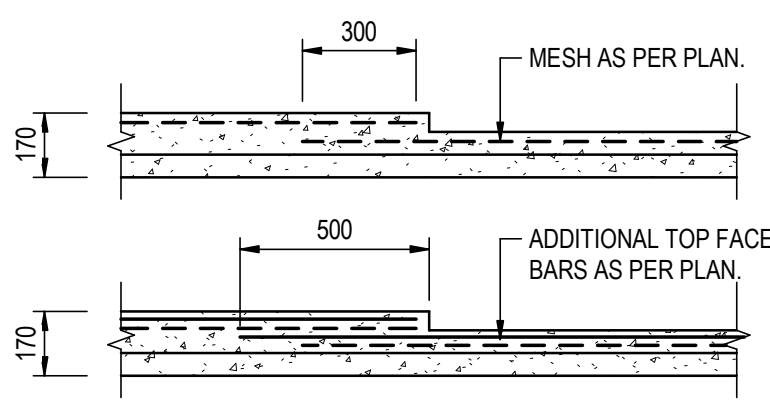
TYPICAL SLAB TO EXTERNAL WALL DETAIL
SCALE 1:20



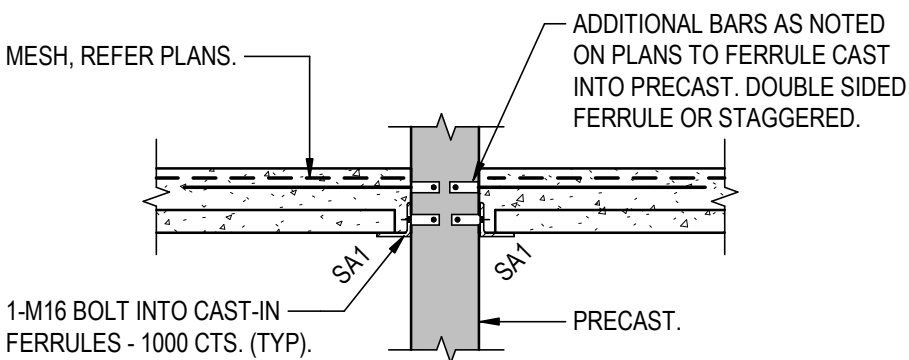
TYPICAL SLAB DETAIL
SCALE 1:20



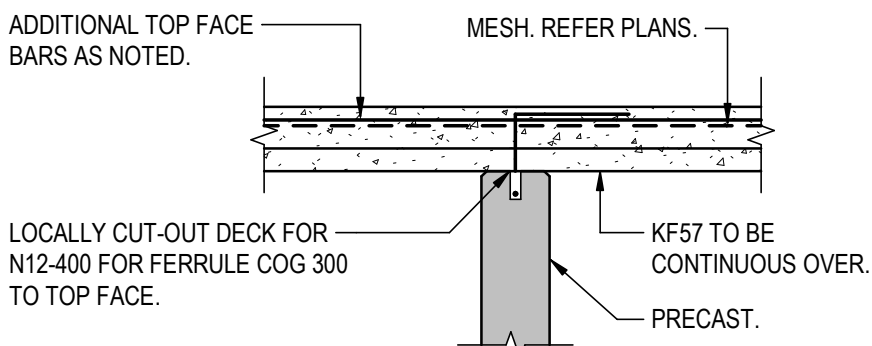
TYPICAL SLAB OVER B1 DETAIL
SCALE 1:20



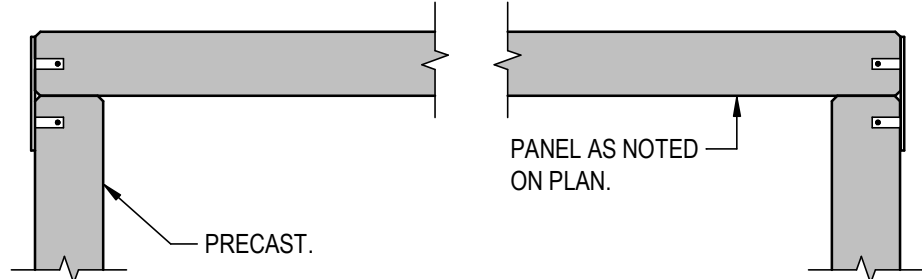
TYPICAL SETDOWN DETAILS
SCALE 1:20



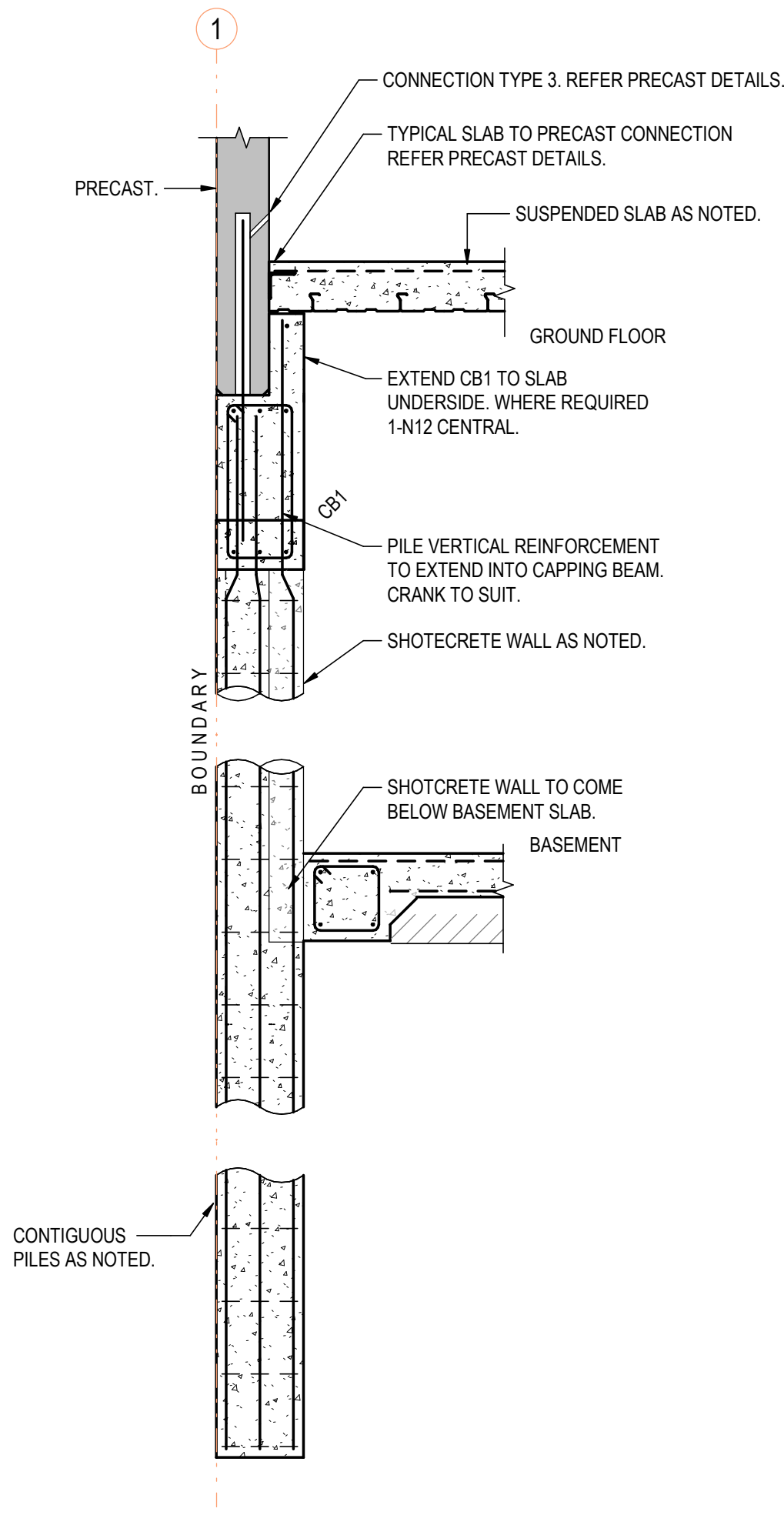
TYPICAL SLAB TO INTERNAL PRECAST WALL DETAIL
SCALE 1:20



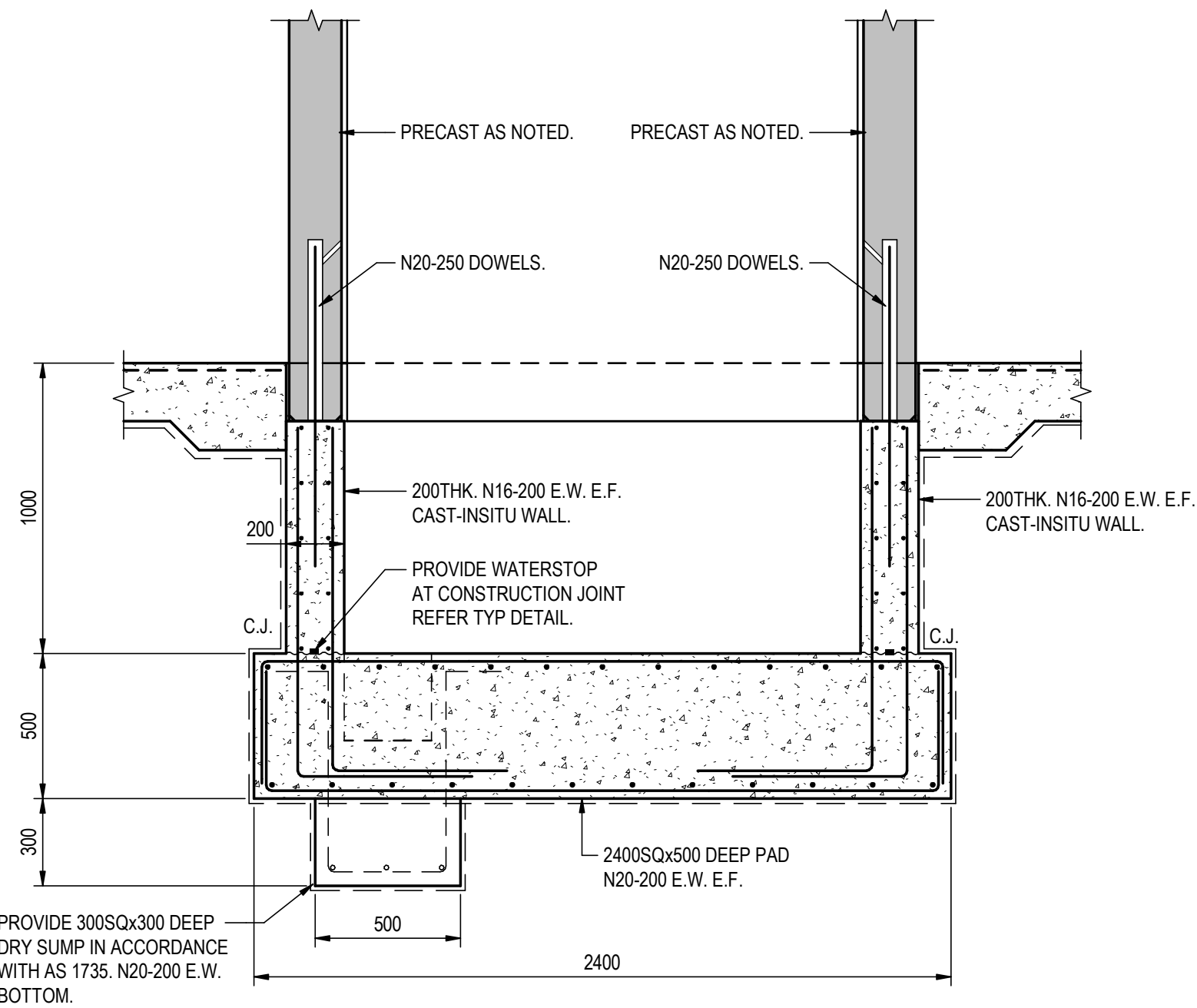
TYPICAL SLAB OVER PRECAST DETAIL
SCALE 1:20



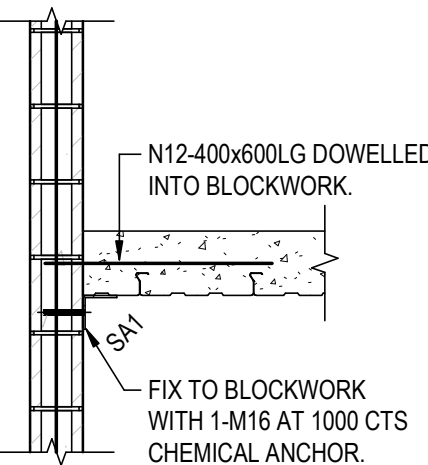
TYPICAL LIFT SHAFT CAPPING SLAB DETAIL
SCALE 1:20



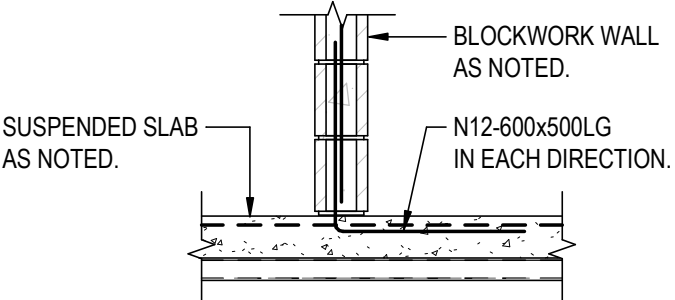
TYPICAL CONTIGULATED PILE DETAILS
SCALE 1:20



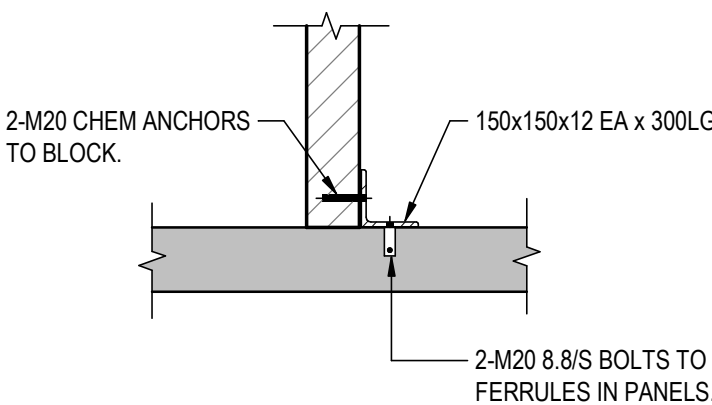
TYPICAL LIFT PIT DETAILS
SCALE 1:20



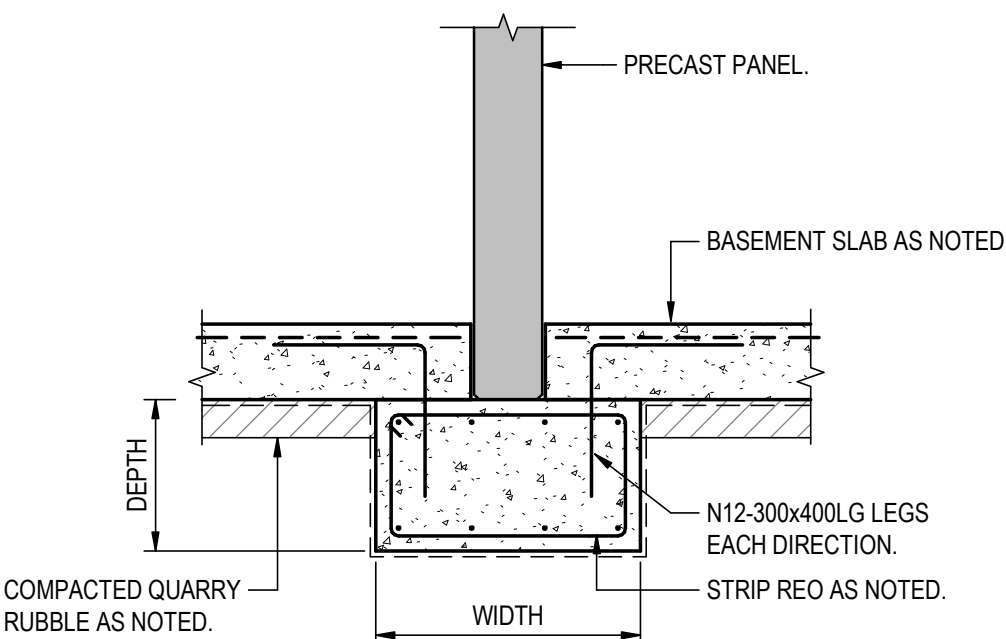
TYPICAL SLAB TO BLOCK WALL
SCALE 1:20



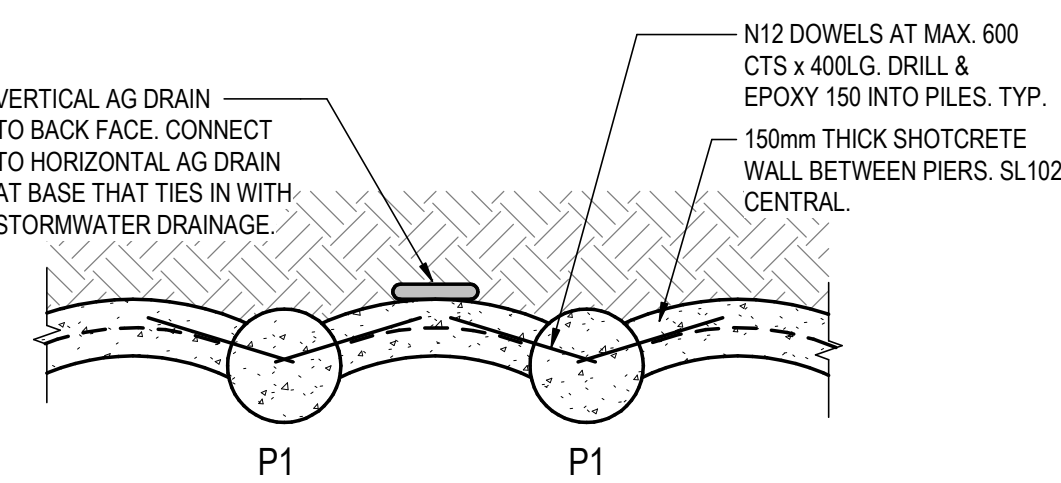
TYPICAL BLOCKWORK ON SLAB
SCALE 1:20



TYPICAL BLOCK TO PRECAST
SCALE 1:20



TYPICAL STRIP FOOTING
SCALE 1:20

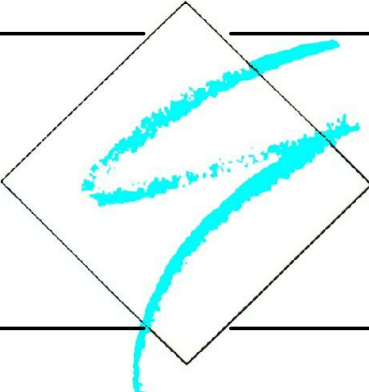


TYPICAL SHOTCRETE WALL DETAIL
SCALE 1:20

Issue	Date	Amendment
B	29/5/18	CERTIFICATION
A	29/3/18	PRELIMINARY WIP

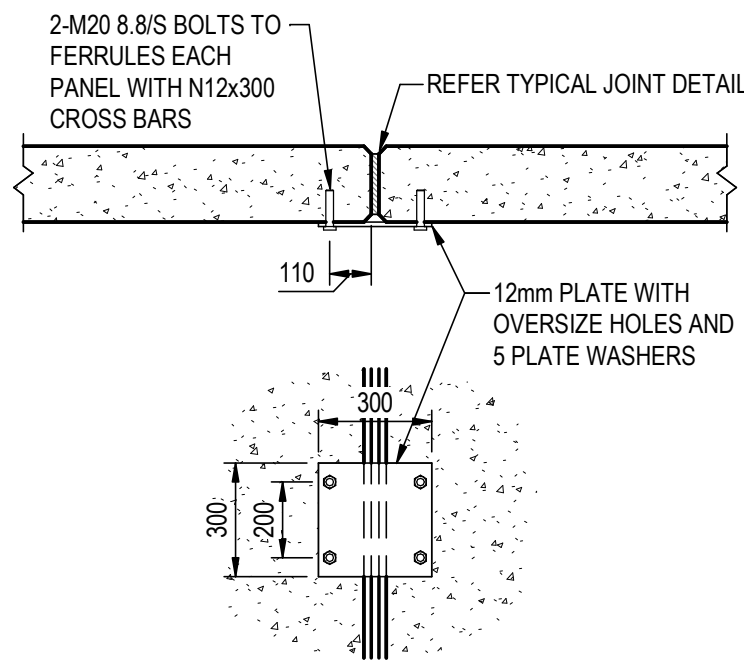
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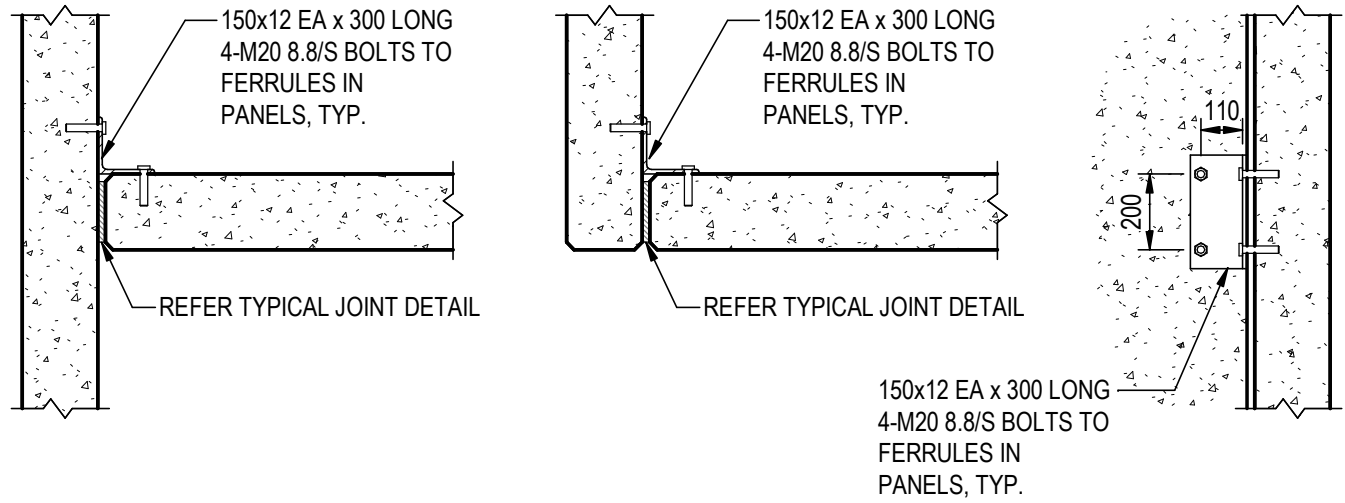


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ANTHONY DONATO ARCHITECTS
TYPICAL DETAILS SHEET 1

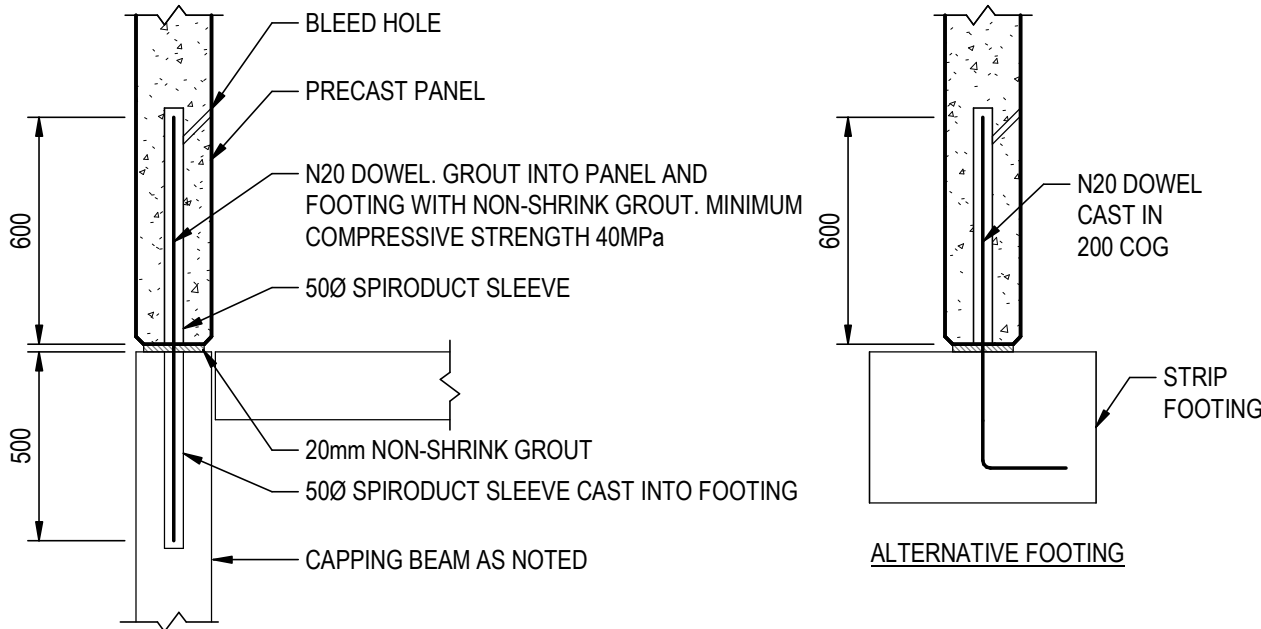
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Design	JT	Drawing Number	
Approved			2018-7161 S11
Date	MARCH 18		



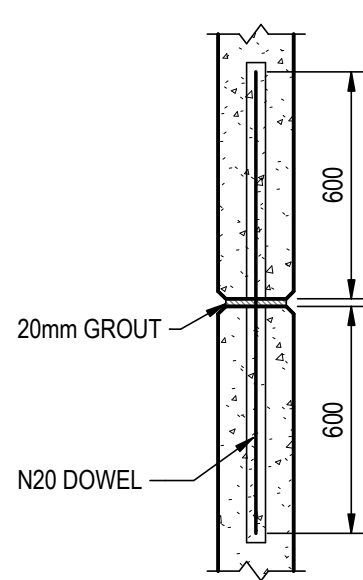
CONNECTION TYPE #1
SCALE 1:20



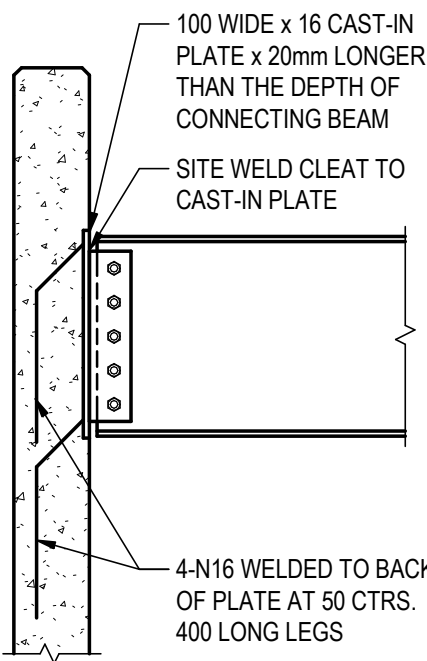
CONNECTION TYPE #2
SCALE 1:20



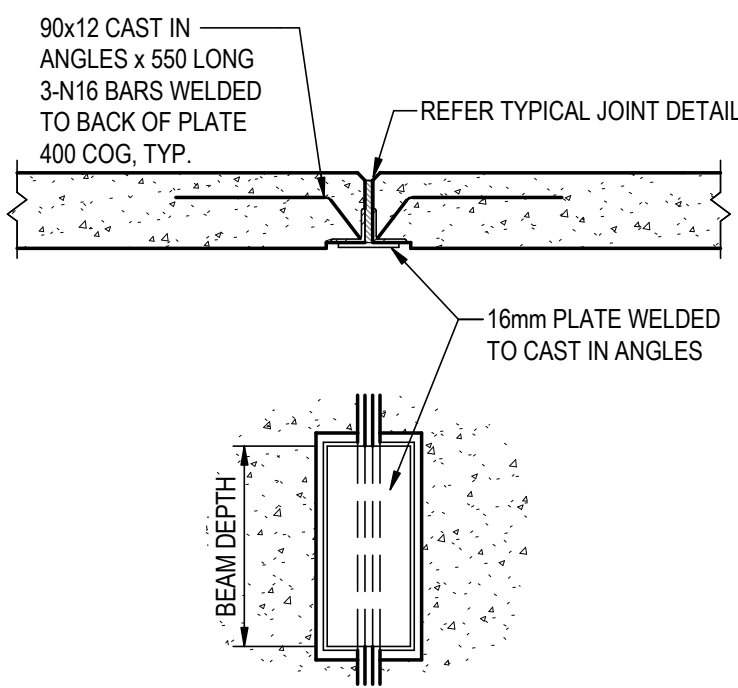
CONNECTION TYPE #3
SCALE 1:20



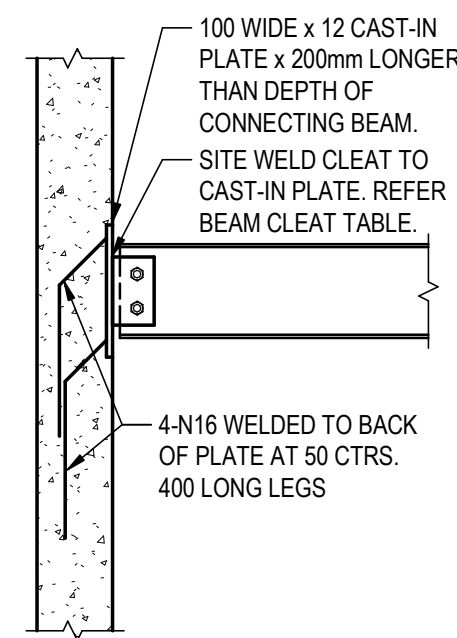
CONNECTION TYPE #5
SCALE 1:20



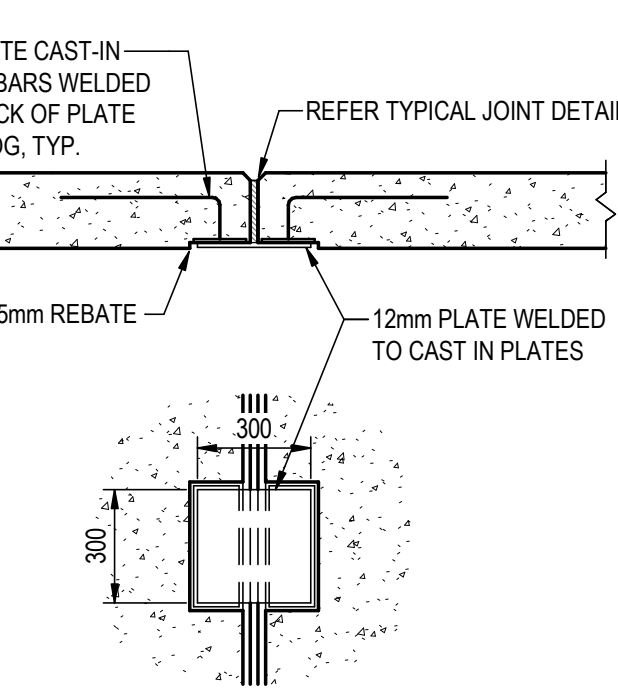
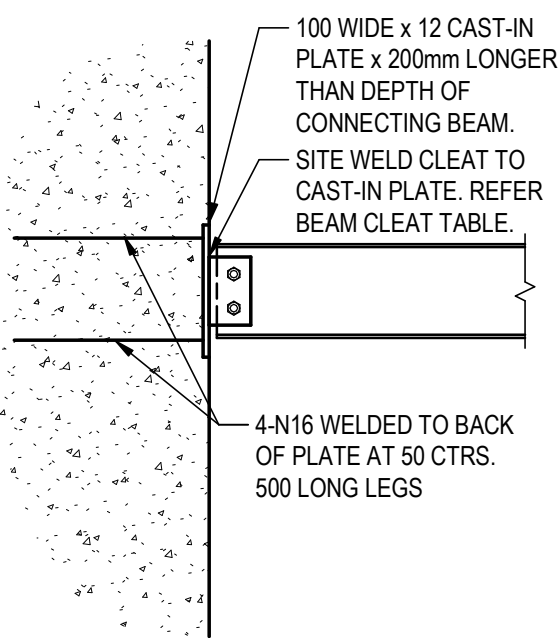
CONNECTION TYPE #6
SCALE 1:20



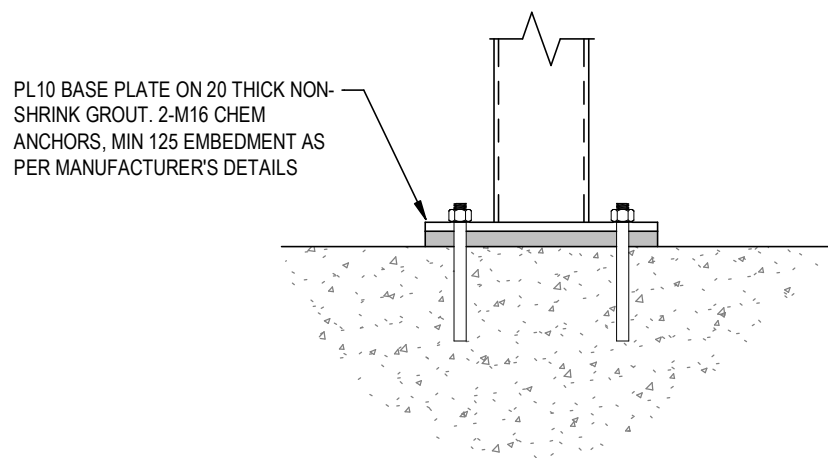
**CONNECTION TYPE #6
ALTERNATIVE AT PANEL JOINT**
SCALE 1:20



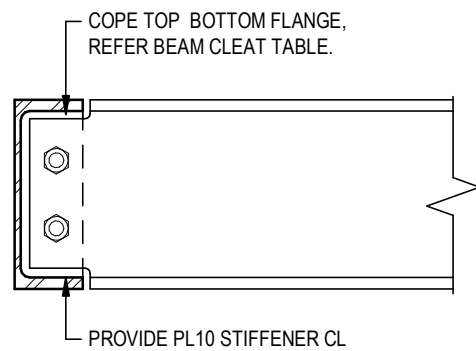
CONNECTION TYPE #7
SCALE 1:20



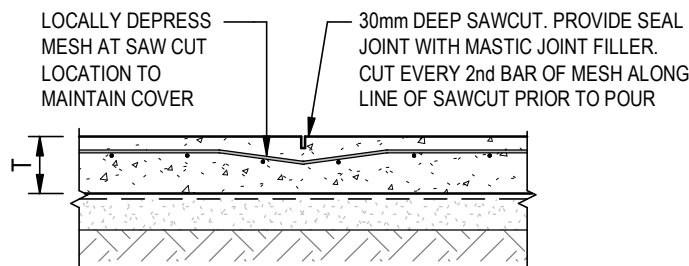
CONNECTION TYPE #8
SCALE 1:20



TYPICAL SHS COLUMN BASE PLATE DETAIL
SCALE 1:10

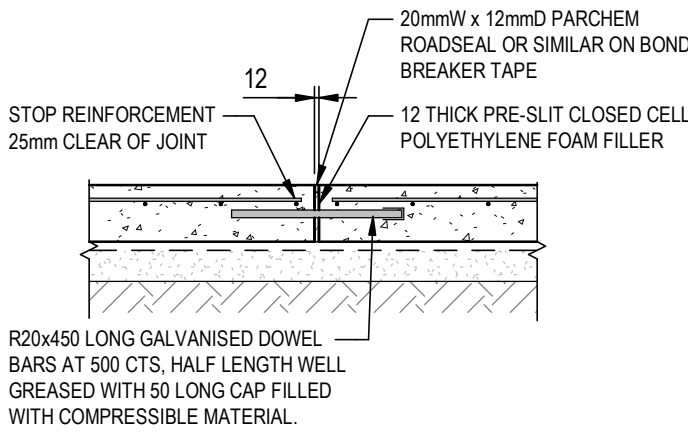


TYPICAL PFC TO UB DETAIL
SCALE 1:10

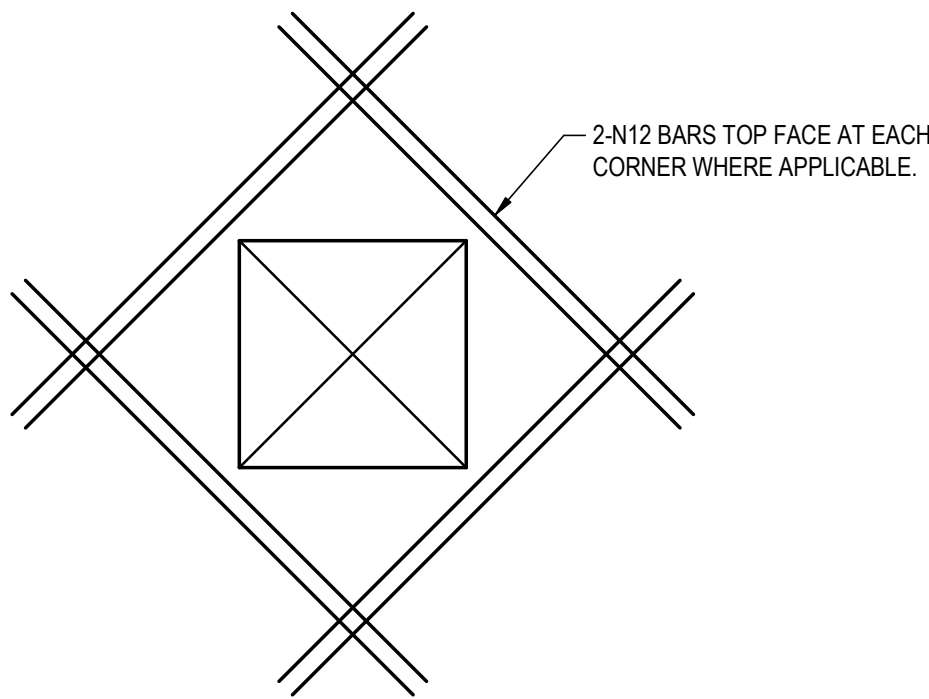


NOTE:
1. SAWCUT WITHIN A 24 HOUR PERIOD AFTER CONCRETE IS POURED
UNLESS AGREED OTHERWISE BY THE ENGINEER.
2. REFER ALSO TP STANDARD NOTES

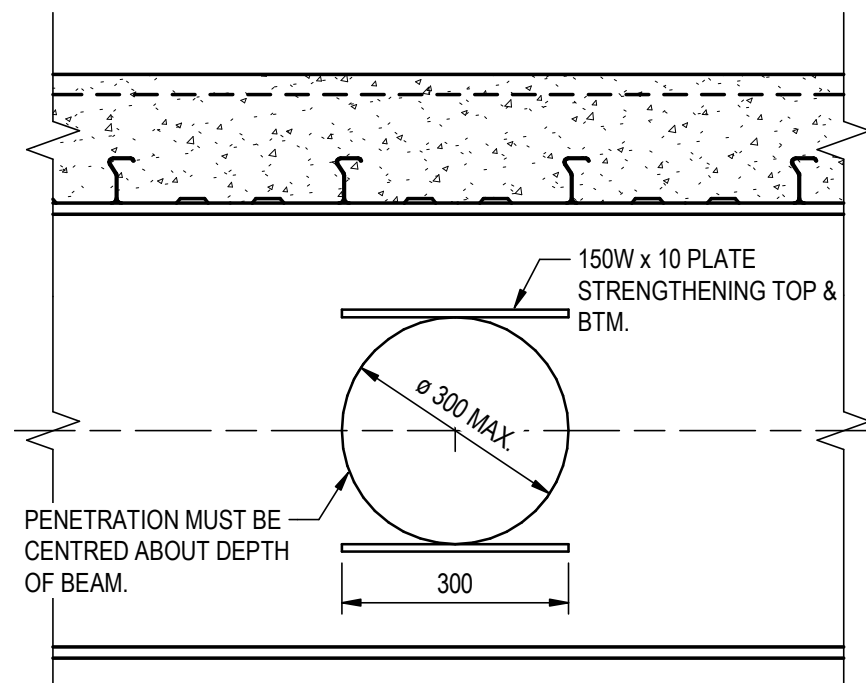
SAW CUT JOINT (SCJ) DETAIL
NOT TO SCALE



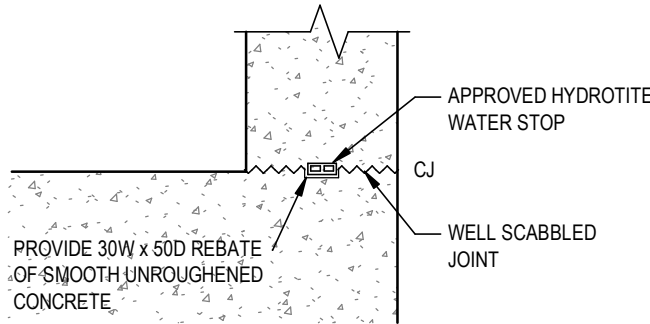
DOWEL JOINT (DJ) DETAIL
NOT TO SCALE



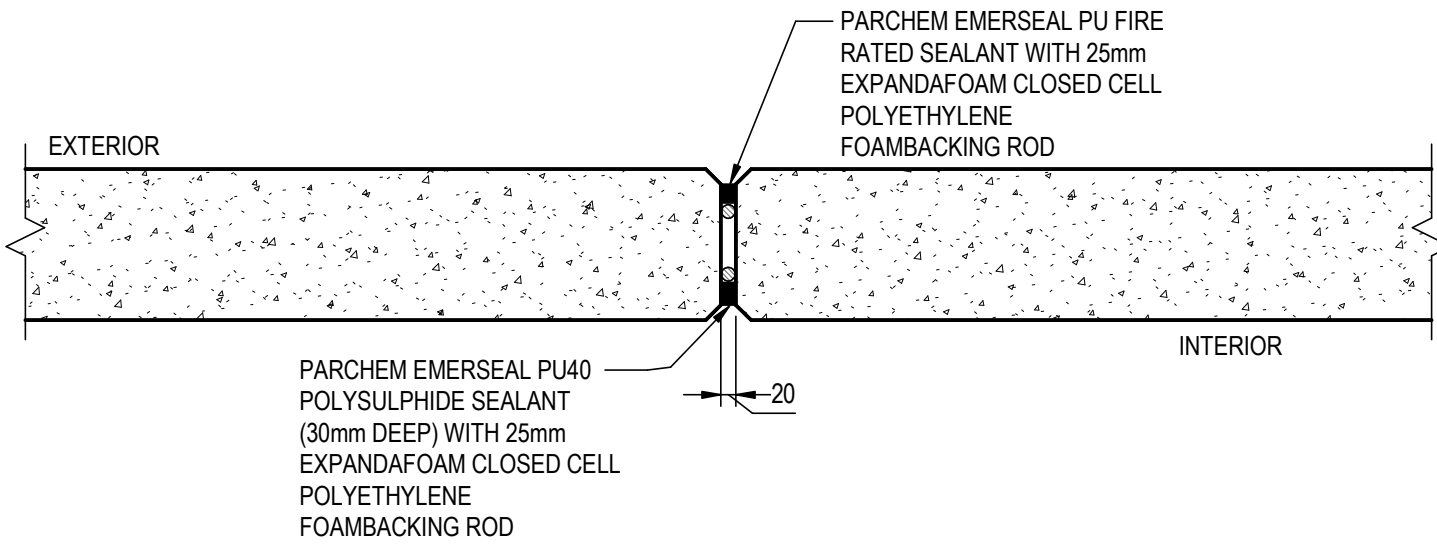
TYPICAL SLAB PENETRATION DETAIL
SCALE 1:20



FLEXI DUCT PENETRATION DETAIL
SCALE 1:10
NOTE:
LOCATIONS TO BE CONFIRMED WITH SERVICES ENGINEER.



TYPICAL WATERSTOP DETAIL
SCALE 1:10

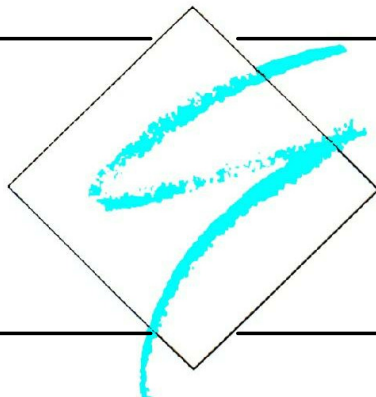


TYPICAL JOINT DETAIL
SCALE 1:10
NOTE: TYPICAL FOR VERTICAL AND HORIZONTAL JOINTS, REFER ALSO TO ARCHITECTS DRAWINGS FOR EXACT SIZE OF JOINT DETAIL.

Issue	Date	Amendment
C	29/5/18	CERTIFICATION
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TYPICAL DETAILS SHEET 2

Drawn	SGP	Scale	As indicated on A1
Design	JT	Drawing Number	
Approved			2018-7161 S12
Date	MARCH 18		