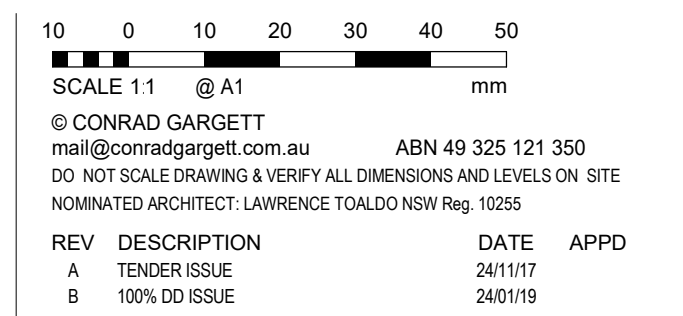


PARRAMATTA REGION SCHOOLS - PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL
AUBURN & YOUNG STREETS, PARRAMATTA

DRAWING LIST - STRUCTURAL

0002	GENERAL NOTES SHEET 1
0003	GENERAL NOTES SHEET 2
2100	FOOTING PLAN SHEET 1
2101	FOOTING PLAN SHEET 2
2110	GROUND FLOOR GENERAL ARRANGEMENT PLAN SHEET 1
2111	GROUND FLOOR GENERAL ARRANGEMENT PLAN SHEET 2
2120	LEVEL 1 GENERAL ARRANGEMENT PLAN SHEET 1
2121	LEVEL 1 GENERAL ARRANGEMENT PLAN SHEET 2
2130	ROOF FRAMING PLAN SHEET 1
2131	ROOF FRAMING PLAN SHEET 2
3000	STEEL FRAMING ELEVATIONS SHEET 1
3001	STEEL FRAMING ELEVATIONS SHEET 2
3002	STEEL FRAMING ELEVATIONS SHEET 3
3003	STEEL FRAMING ELEVATIONS SHEET 4
3004	STEEL FRAMING ELEVATIONS SHEET 5
3005	STEEL FRAMING ELEVATIONS SHEET 6
3500	FOOTING AND SLAB ON GROUND DETAILS SHEET 1
3501	FOOTING AND SLAB ON GROUND DETAILS SHEET 2
3510	CONCRETE COLUMN DETAILS
3520	CONCRETE DETAILS SHEET 1
3521	CONCRETE DETAILS SHEET 2
3530	STEELWORK DETAILS SHEET 1
3531	STEELWORK DETAILS SHEET 2
3532	STEELWORK DETAILS SHEET 3
3540	CONCRETE STAIR DETAILS
3550	MASONRY WALL DETAILS



DRAWING STATUS

PRELIMINARY

ENGINEER



INTERNAL PROJECT No:
160623

ARCHITECT

Conrad Gargett

CLIENT / APPLICANT



PROJECT MANAGER



PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
COVER SHEET

A1 SCALE

DATE: 24/01/19

SCHOOL ID	PAC ID	STAGE	DISCIPLINE	DOC TYPE	DRAWN
PW - 01	-DD	- S -	DR - 00		

GENERAL

- G1. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS SHALL BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY ON THESE DRAWINGS MUST BE REFERRED TO THE ENGINEER, ADAMS CONSULTING ENGINEERS PTY LTD, FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- G2. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL ISSUED AS "ISSUED FOR CONSTRUCTION" BY THIS OFFICE.
- G3. THE CONTRACTOR AND/OR SUB-CONTRACTORS, ARE RESPONSIBLE FOR VERIFYING ALL DATUM POINTS, LEVELS AND DIMENSIONS INCLUDING SETOUT DIMENSIONS PRIOR TO COMMENCING EITHER ON SITE CONSTRUCTION OR OFF SITE FABRICATION. ALL SETOUT AND OVERALL DIMENSION SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. DO NOT SCALE THESE DRAWINGS.
- G4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.
- G5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND ALL EXCAVATIONS IN A STABLE CONDITION AND ENSURING NO PART IS OVER STRESSED BY CONSTRUCTION ACTIVITIES.
- G6. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT NATIONAL CONSTRUCTION CODES, THE BUILDING CODE OF AUSTRALIA, OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AND THE LOCAL STATUTORY AUTHORITIES REQUIREMENTS.
- G7. THE APPROVAL OF ANY SUBSTITUTION BY THE ENGINEER IS NOT AN AUTHORISATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE CLIENT AND/OR PROJECT MANAGER BEFORE WORK COMMENCES.
- G8. WHERE ADDITIONAL CONSTRUCTION LOADS SUCH AS MOBILE CRANES ETC. ARE TO BE IMPOSED ON THE STRUCTURE, THE CONTRACTOR SHALL PROVIDE FULL DETAILS OF THE PROPOSED TEMPORARY SUPPORTS TO THE ENGINEER FOR APPROVAL, A MINIMUM OF 7 DAYS PRIOR TO THE PROPOSED WORKS COMMENCING.
- G9. THE STRUCTURAL WORK ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LOADS U.N.O.

AREA	LIVE LOAD (kPa)	SUPERIMPOSED DEAD LOAD - SDL (kPa)
ROOF - LIGHT WEIGHT	0.25 kPa	0.6 kPa
FLOORS - CLASSROOM	3.0 kPa	1.5 kPa
FLOORS - LOBBY / CORRIDOR	4.0 kPa	1.5 kPa
STAIRS	4.0 kPa	1.5 kPa

G10. THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING WIND LOAD PARAMETERS.

ULTIMATE REGIONAL WIND SPEED (V _{R500})	46m/s
TERRAIN CATEGORY	2.5

G11. THE ROOF STRUCTURE HAS BEEN DESIGNED FOR THE ROOF LOADS AS STATED ABOVE. ONLY AND NO ALLOWANCE HAS BEEN MADE FOR ANY ADDITIONAL LOADS SUCH AS HOISTS, MONORAILS AND MECHANICAL EQUIPMENT UNLESS SUCH ITEMS ARE SHOWN ON THE DRAWINGS.

G12. THE STRUCTURE HAS BEEN DESIGNED TO ACHIEVE THE FOLLOWING FIRE RATINGS.

AREA	RATING
SCHOOL FACILITIES	120/120/120

- G13. THE EXTENT AND TYPE OF ALL WATERPROOFING OF STRUCTURAL ELEMENTS INCLUDING RETAINING WALLS ARE TO BE SPECIFIED BY THE ARCHITECT.
- G14. ALL COSTS INCURRED BY THE ENGINEER FOR ASSESSMENT OR APPROVAL OF SUBSTITUTION, ALTERATIONS OR ADDITIONAL WORKS SHALL BE BORNE BY THE CONTRACTOR.
- G15. NO HOLES, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

MASONRY

- M1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AS 3700, SAA MASONRY CODE.
- M2. LOAD BEARING BRICKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F_{uc} OF 30MPa.
- M3. LOAD BEARING BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F_{uc} OF 15MPa
- M4. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE FOLLOWING RATIOS UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWING.
- M5. FOR REINFORCED WALLS - 1 PART CEMENT, 1 PART LIME AND 6 PARTS SAND AND HAVE AN AVERAGE 28 DAY COMPRESSIVE STRENGTH OF 11.0MPa.
- M6. FOR UNREINFORCED WALLS ABOVE GROUND LEVEL - 1 PART CEMENT, 1 PART HYDRATED LIME AND 6 PARTS OF WELL GRADED SAND COMPLYING WITH AS2758.
- M7. FOR UNREINFORCED WALLS BELOW GROUND LEVEL - 1 PART CEMENT, 1/2 PART HYDRATED LIME AND 4.5 PARTS OF WELL GRADED SAND COMPLYING WITH AS 2758.
- M8. **IMPORTANT NOTE:**
ALL CAVITY FILL IS TO BE WITH GROUT COMPRISING- 1 PART CEMENT, 2.5 PARTS SAND AND 1.5 PARTS 10mm AGGREGATE (POURED IN 1000mm MAXIMUM LIFTS). GROUT TO HAVE A CHARACTERISTIC COMPRESSIVE STRENGTH (F_c) OF 20 MPa AND SHALL HAVE A SLUMP OF 230 PLUS OR MINUS 30mm AT THE TIME OF POURING.
- M9. MASONRY SUPPORTING CONCRETE SHALL BE SMOOTH AND LEVEL WITH ALL DEPRESSIONS FILLED WITH MORTAR AND SHALL BE SEPARATED AT THE BEARING SURFACE BY TWO LAYERS OF BITUMINOUS BUILDING PAPER (MALTHOID OR EQUIVALENT).
- M10. VERTICAL FACES BETWEEN MASONRY WALLS AND CONCRETE SHALL BE SEPARATED BY 10mm THICK ABEFLX.
- M11. ALL NON-LOAD BEARING MASONRY WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS, SHELF ANGLES OR BEAMS BY MINIMUM OF 20mm.
- M12. NO MASONRY SUPPORTED BY CONCRETE SHALL BE ERECTED UNTIL SUPPORTING FORMWORK, ETC. HAS BEEN REMOVED.
- M13. WHERE MASONRY WALLS ARE TO BE CONSTRUCTED ON SUSPENDED SLABS, THE MATERIALS TO BE USED IN THE WALL ARE TO BE STACKED AS NEAR AS POSSIBLE TO THE FINAL POSITION OF THE WALL.
- M14. NO MATERIALS ARE TO BE STACKED ON CANTILEVERED SLABS. NO MATERIALS ARE TO BE STACKED ON SUSPENDED CONCRETE WORK UNTIL ALL PROPS HAVE BEEN REMOVED. STACKING LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD AS INDICATED IN THE GENERAL NOTES.
- M15. PROVIDE FULL-HEIGHT, ARTICULATION JOINTS IN ACCORDANCE WITH CEMENT AND CONCRETE ASSOCIATION CONSTRUCTION NOTE TN61, AT 6.0m CENTERS UNLESS SHOWN OTHERWISE. JOINTS SHALL BE 15mm wide with 20mm DIAMETER CLOSED CELL POLYETHYLENE FOAM BACKING ROD AND POLYSULPHIDE BASED CALKING SEALANT TO EXTERNAL FACE.

MASONRY CONTINUED

- M16. CAVITY WALL TIES TO BE AS FOLLOWS:
- a) FOR MASONRY VENEER WALLS - AT 600MM VERTICAL CENTRES GENERALLY AND REDUCE TO 300MM CENTRES AROUND OPENINGS AND AT CONTROL JOINTS. HORIZONTAL SPACING TO BE AT AVERAGE 450MM CENTRES, MAX. 600MM.
- b) FOR CAVITY WALLS - AT 600MM MAXIMUM CENTRES IN EACH DIRECTION. REDUCE VERTICAL TIE SPACINGS TO AVERAGE 300mm (MAX 400mm) AROUND OPENINGS OR AT CONTROL JOINTS.
- c) TIES BETWEEN LEAVES OF MASONRY FORMING SOLID WALLS OR ENGAGED PIERS SHALL BE AT 400MM MAXIMUM CENTRES IN EACH DIRECTION. TIES ARE TO BE MEDIUM DUTY FOR THE APPROPRIATE CAVITY WIDTH AND ARE TO BE GALVANISED TO R2 RATING IN ACCORDANCE WITH AS3700 AND AS2699. USE 3.15mm DIAMETER GALVANISED STEEL WIRE TIES FOR CAVITY WIDTHS LESS THAN 65mm. USE 6mm DIAMETER GALVANISED STEEL WIRE TIES FOR CAVITY WIDTHS FROM 65mm TO 130mm. TYPICAL TIES AS REQUIRED ON DETAILS ABUTTING STEEL OR CONCRETE TO BE 6mm DIAMETER GALVANISED STEEL WIRE AT 400 MAXIMUM CENTERS.

SLAB ON GROUND AND FOOTINGS

- F1. **SOIL CLASSIFICATION FOR THE SITE IS:**
- | | |
|--|---------------------|
| STRIP AND PAD FOOTINGS | CLASS 1P |
| SLAB ON GROUND | CLASS 1P |
| SITE CLASSIFICATION TO AS2870 - 2011 RESIDENTIAL SLABS AND FOOTINGS TO BE CONFIRMED ON SITE BY THE BUILDER | |
| GEOTECHNICAL ENGINEER: | DOUGLAS PARTNERS |
| REPORT NUMBER: | 86031.00.R.001.Rev0 |
| DATED: | 9 AUGUST 2017 |
- F2. **EARTHQUAKE CLASSIFICATION FOR THE SITE IS:**
- | | |
|----------------|------------|
| SUB-SOIL CLASS | CLASS 'C'± |
| HAZARD FACTOR | Z= 0.08 |
- F3. **FOUNDING MATERIAL AND DEPTH:**
- | | |
|--------------------------------|------------|
| FOUNDING MATERIAL FOR FOOTINGS | SILTY CLAY |
|--------------------------------|------------|
- THE MINIMUM FOUNDING DEPTHS ARE TO BE AS NOTED IN THE SOIL REPORT.
- F4. **MINIMUM ALLOWABLE BEARING PRESSURE FOR FOOTINGS:**
- | | |
|-----------------------|---------|
| ISOLATED PAD FOOTINGS | 150 kPa |
|-----------------------|---------|
- F5. **BORED PIERS ARE TO BE FOUND INTO THE LOW STRENGTH SHALE WITH THE FOLLOWING BEARING CAPACITY:**
- | | |
|-------------|---------|
| SCREW PILES | 150 kPa |
|-------------|---------|
- THE MINIMUM FOUNDING DEPTHS ARE TO BE AS NOTED IN THE GEOTECHNICAL REPORT UNLESS NOTED OTHERWISE ON PLAN.
- F6. BEFORE ANY CONCRETE IS POURED THE SAFE BEARING CAPACITY SOIL PROFILE AND SITE CLASSIFICATION SHALL BE VERIFIED BY THE PROJECT GEOTECHNICAL ENGINEER AT THE CONTRACTORS EXPENSE.
- F7. PRIOR TO ANY COMPACTED FILLING BEING PLACED THE GROUND BELOW THE SLAB SHALL BE PROOF ROLLED WITH A 3 TONNE SHEEPSFOOT ROLLER COMPACTOR. ANY "SOFT SPOTS" ENCOUNTERED SHALL BE DUG OUT AND REPLACED WITH COMPACTED CRUSHED ROCK IN ACCORDANCE WITH AS2870. FILLING USED IN THE CONSTRUCTION OF THE SLAB, EXCEPT WHERE THE SLAB IS SUSPENDED SHALL CONSIST OF CONTROLLED FILL AS FOLLOWS:
- (a) CONTROLLED FILL IS MATERIAL THAT HAS BEEN PLACED AND COMPACTED IN LAYERS BY COMPACTION EQUIPMENT WITHIN DEFINED MOISTURE RANGE TO A DEFINED DENSITY REQUIREMENT. EXCEPT AS PROVIDED BELOW, CONTROLLED FILL SHALL BE PLACED IN ACCORDANCE WITH AS3798. SAND FILL UP TO 0.8m DEEP, WELL COMPACTED IN NOT MORE THAN 0.3m THICK LAYERS BY A VIBRATING PLATE OR VIBRATING ROLLER, SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENT. A SATISFACTORY TEST FOR SAND FILL NOT CONTAINING GRAVEL SIZED MATERIAL IS THE ACHIEVEMENT OF A BLOW COUNT OF 7 OR MORE PER 0.3m USING THE PENETROMETER TEST DESCRIBED IN AS1289.3.3. NON-SAND FILL UP TO 0.4m DEEP, WELL COMPACTED IN NOT MORE THAN 0.15m LAYERS BY A MECHANICAL ROLLER, SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENT. CLAY FILL SHALL BE MOIST DURING COMPACTION.
- (b) ROLLED FILL CONSISTS OF MATERIAL COMPACTED IN LAYERS BY REPEATED ROLLING WITH AN EXCAVATOR. ROLLED FILL SHALL NOT EXCEED 0.6m COMPACTED IN LAYERS NOT MORE THAN 0.3m THICK FOR SAND OR 0.3m COMPACTED IN LAYERS NOT MORE THAN 0.15m THICK FOR OTHER MATERIAL.
- (c) THE EXTENT OF UNCONTROLLED AND CONTROLLED FILL REQUIRED ON THE SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- (d) FOR SLAB ON GROUND THAT IS TO BE SUPPORTED ON AN ENGINEERED FILL PLATFORM WITH FILL DEPTH THICKER THAN THE CONTROLLED FILL SPECIFIED IN (a), PLACEMENT OF THE FILL IS TO BE IN ACCORDANCE WITH AS3798 AND SUBJECTED TO LEVEL 1 SUPERVISION. COMPACTION IS TO ACHIEVE 98% MAXIMUM DRY DENSITY. FILL MATERIAL IS TO BE NON-REACTIVE IN NATURE. ALSO REFER TO VICROADS STANDARD SPECIFICATION SECTION 204 FOR DETAILS OF SUITABLE MATERIALS, BASED ON TYPE 'A' MATERIALS. ALL FILL TO BE PLACED IN LAYERS NOT EXCEEDING 200mm LOOSE MATERIAL.
- F8. POLYTHENE MEMBRANE UNDER SLAB IS TO BE 0.2mm THICK BRANDED AS CONCRETE UNDERLAY, CONTINUOUS, LAPPED 200mm MINIMUM WHERE REQUIRED AND TAPED AT LAPS, PUNCTURES AND SERVICE AND PIPE PENETRATIONS.
- F9. WHERE SURFACE SILTS AND SANDS MAY BECOME UNWORKABLE DURING THE WET WINTER MONTHS, ALLOWANCE SHALL BE MADE FOR THE IMMEDIATE PLACEMENT OF A GRANULAR WORKING SURFACE OF AT LEAST 200mm THICK.
- F10. EXCAVATIONS NEAR THE BUILDING EDGE SHALL BE BACKFILLED IN SUCH A MANNER TO PREVENT READY ACCESS OF WATER TO THE FOUNDATIONS.
- F11. THE GROUND SURROUNDING THE SLAB SHALL HAVE ITS SURFACE AT LEAST 150mm BELOW THE SLAB SURFACE AND BE SLOPED AWAY FROM THE SLAB EDGE SO THAT SURFACE WATER WILL BE RUN VIA IMPERMEABLE SPOON DRAINS TO SUITABLE DRAINAGE POINTS.
- F12. ALL RELEVANT CODES AND REGULATIONS MUST BE COMPLIED WITH INCLUDING AS2870 AND AS3600.
- F13. ALL GRASS ROOTS, VEGETATION AND COMPRESSIBLE TOPSOIL MUST BE REMOVED FROM THE AREA OF THE SLAB.
- F14. HOT WATER HEATING PIPES MAY BE EMBEDDED IN THE SLAB IF THE THICKNESS IS INCREASED BY 25mm AND LAID ON SL2 MESH.
- F15. TERMITE PROTECTION SHALL BE PROVIDED AS REQUIRED BY THE LOCAL AUTHORITY.
- F16. OWNERS MUST RECOGNISE THEIR RESPONSIBILITIES NOTED IN AS2870 AND IN MORE DETAIL IN THE C.S.I.R.O PUBLICATION "FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE : A HOMEOWNER'S GUIDE"
- F17. ROOT BARRIERS, DRAINAGE AND OTHER MEASURES RECOMMENDED IN THE GEOTECHNICAL REPORT ARE TO BE INCLUDED IN THE BUILDERS WORKS.
- F18. ALL EXCAVATIONS SHOULD BE CAREFULLY INSPECTED BY A COMPETENT PERSON AND THIS OFFICE CONTACTED IMMEDIATELY IF CONDITIONS OTHER THAN THOSE DESCRIBED IN THE SOIL REPORT ARE ENCOUNTERED OR ANY FILLING IS FOUND.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 & AS 1379. CONCRETE TESTING SHALL BE BY THE PROJECT ASSESSMENT METHOD.
- C2. COVER (MILLIMETERS) TO ALL REINFORCEMENT INCLUDING FITMENTS (MILLIMETERS FINISHES) SHALL BE AS FOLLOWS UNLESS OTHERWISE SHOWN.

ELEMENT	FORMED INTERNAL	FINISHED EXTERNAL	CAST AGAINST GROUND
FOOTINGS	-	50	75
BORED OR CAST PIERS	-	50	75
COLUMNS / PEDESTALS	30	40	50
WALLS	30(40)*	40	50
BEAMS	30	40	50
SLABS	20	40	30
STAIRS	20	40	30

*WALLS - 40mm COVER TO VERTICAL REINFORCEMENT. WHERE MEMBERS HAVE AT LEAST ONE FACE EXPOSED TO THE WEATHER OR POSSIBLE CORROSIVE ATTACK, THIS CONCRETE REQUIRES A SPECIAL TOLERANCE FOR THE ABOVE COVERS -40mm-10mm. MEMBERS MAY REQUIRE EXTRA COVER APPLICABLE. FOR FIRE-RATING PURPOSES, THIS WILL BE NOTED ON DRAWINGS WHERE APPLICABLE.

- C3. SIZES OF CONCRETE MEMBERS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C4. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C5. BEAMS AND SLAB SHALL BE POURED TOGETHER IN ONE OPERATION.
- C6. NO HOLES CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C7. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION. REINFORCEMENT IS DENOTED BY A SYMBOL IN ACCORDANCE WITH AS4671 FOR STEEL REINFORCING MATERIALS AND AS4672 FOR STEEL PRESTRESSING MATERIALS.
- C8. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION AS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER. WHERE LAP LENGTH IS NOT SHOWN, IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT. LAPS TO FABRIC SHALL BE TWO TRANSVERSE WIRES PLUS 100mm.
- C9. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
- C10. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS FOR ALL EXTERNAL SURFACES. PROVIDE FULLY PLASTIC BAR CHAIRS. TIE WIRE SHALL NOT BE NAILED TO THE FORMS. REINFORCING BARS SHALL NOT BE USED TO KEEP FORMS APART AND A THROUGH THE SYSTEM SHALL BE USED TO TIE FORMS.
- C11. **DISTRIBUTION BARS SHALL BE PROVIDED IN SLABS AS FOLLOWS U.N.O.:**
- | | |
|------------------------------|---------|
| SLABS UP TO 250mm THICKNESS | N12-300 |
| SLABS 250 TO 300mm THICKNESS | N12-250 |
| SLABS 300 TO 600 THICKNESS | N12-150 |
- PROVIDE 2N16 x 1200 LONG DIAGONAL TRIMMING BARS IN EACH FACE OF SLAB AROUND OPENINGS
- C12. CAMBER -UNLESS NOTED OTHERWISE ON THE DRAWINGS, SLABS SHALL BE GIVEN A POSITIVE UPWARD CAMBER AT MID-SPAN OF 3mm PER 1000mm SPAN. THE METHOD OF CAMBERING IS TO BE AGREED WITH THE ENGINEER. BEAMS SHALL BE CAMBERED AS SHOWN ON THE DRAWINGS (NEGATIVE CAMBERING IS NOT ALLOWED).
- C13. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL REMAIN IN POSITION FOR A MINIMUM OF 28 DAYS AFTER POURING OF CONCRETE UNLESS WRITTEN APPROVAL BY THE ENGINEER STATING OTHERWISE IS OBTAINED.
- C14. UNLESS NOTED OTHERWISE, CONCRETE GRADES SHALL BE AS FOLLOWS.

ELEMENT	F _c (MPa)	SLUMP (mm)	AGGREGATE (mm)
FOOTINGS	32	75	20
PIERS/ PILES	32	75	20
COLUMNS	40 / 50	75	20
SLABS / BEAMS	32	75	20
STAIRS / INTERNAL	40	75	20
EXTERNAL SLABS/BEAMS/STAIRS			
-EXPOSED TO WEATHER	40	75	20
GROUND SLAB			
-SCHOOL	32	65	20

EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER RAIN & WATER PENETRATION AND ARE CLASSIFIED B1 UNLESS NOTED OTHERWISE. CONCRETE TO BE MINIMUM GRADE 25 FOR FOOTINGS AND MINIMUM GRADE 32 FOR ALL OTHER ELEMENTS.

- C15. GROUND SLABS, EXTERNAL CONCRETE ELEMENTS, GRADE 32 MINIMUM, SHALL MEET THE FOLLOWING REQUIREMENTS - MINIMUM PORTLAND CEMENT CONTENT 330kg/m³ (NO FLY-ASH TO BE USED) MAXIMUM WATER/CEMENT RATIO 0.5, SHRINKAGE LIMIT 600 MICRO-STRAIN AFTER 56 DAYS, AND CHLORIDE CONTENT TO BE RESTRICTED AS PER AS 3600, CLAUSE 4.9.
- C16. CONCRETE MUST BE CURED BY AN APPROVED METHOD FOR SEVEN DAYS AFTER POURING AND CURING MUST COMMENCE WITHIN 2 HOURS OF PLACEMENT.
- C17. ADDITIVES MUST NOT BE ADDED TO THE CONCRETE WITHOUT THE APPROVAL OF THE ENGINEER.
- C18. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND CONSTRUCTED ONLY WHERE SHOWN OR APPROVED BY THE ENGINEER.
- C19. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. THE VIBRATORS SHALL NOT BE USED TO VIBRATE THE FORMS NOR SHALL THEY BE USED TO SPREAD THE CONCRETE.
- C20. CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF MALTHOID (OR AN APPROVED EQUIVALENT), FOR SLABS ON GROUND, AND PAVING, VERTICAL FACES OF SLABS, MASONRY WALLS AND COLUMNS ARE TO BE SEPARATED BY 10mm THICK BITUMINOUS CANITE OR SIMILAR.
- C21. PROVIDE A 20mm x 20mm CHAMFER TO ALL VISIBLE JUNCTIONS OF CONCRETE FACES, EXCEPT FOR PRECAST PANELS WHICH SHALL HAVE A 12mm X 12mm CHAMFER. - REFER TO ARCHITECTS DRAWINGS FOR FURTHER DETAILS.
- C22. ALL PROPS AND FORMWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR PARTITIONS ON THE FLOOR.
- C23. ALL NON LOAD BEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS BY 20mm UNLESS OTHERWISE SHOWN.
- C24. UNLESS OTHERWISE SPECIFIED THE SURFACE FINISH TO CONCRETE ELEMENTS SHALL BE CLASS 2 IN ACCORDANCE WITH AS 3610
- C25. INSTALLATION OF ALL POST INSTALLED FASTENINGS MUST BE CARRIED OUT BY AEFAC CERTIFIED ANCHOR INSTALLERS.

TREE CONSIDERATIONS:

PLANTING OF TREES SHOULD BE AVOIDED NEAR THE FOUNDATION OF A STRUCTURE (INCLUDING FENCES) OR NEIGHBOURING STRUCTURE ON REACTIVE SITES AS THEY CAN CAUSE DAMAGE DUE TO DRYING OF THE CLAY AT SUBSTANTIAL DISTANCES. TO REDUCE, BUT NOT ELIMINATE, THE POSSIBILITY OF DAMAGE, TREE PLANTING SHOULD BE RESTRICTED TO A DISTANCE FROM THE STRUCTURE OF:

- 1. 1.5 x MATURE HEIGHT FOR CLASS E SITES
- 2. 1 x MATURE HEIGHT FOR CLASS H SITES
- 3. 0.75 x MATURE HEIGHT FOR CLASS M SITES

WHEN ROWS OR GROUPS OF TREES ARE INVOLVED, THE DISTANCE FROM THE BUILDING SHOULD BE INCREASED. REMOVAL OF TREES FROM THE SITE CAN ALSO CAUSE SIMILAR PROBLEMS.

WHERE THIS REQUIREMENT IS NOT ACHIEVED ALL FOOTINGS ARE TO BE DEEPEENED IN ACCORDANCE WITH THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT, OR A ROOT BARRIER INSTALLED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.

STEELWORK

- S1. ALL MATERIALS, WORKMANSHIP, INSPECTIONS, TESTING, PROTECTIVE COATINGS, FABRICATION AND ERECTION SHALL COMPLY WITH AS4100 STEEL STRUCTURES CODE AND ASINZS35131 WITH THE FOLLOWING CONSTRUCTION CATEGORY*

CONSTRUCTION CATEGORY REFER ASINZS35131 TABLE C3	C03
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MATERIAL IDENTIFICATION AND TRACEABILITY DOCUMENTATION AS STATED IN ASINZS35131 SECTION 4.7 IS REQUIRED TO BE SUBMITTED FOR THE ABOVE CONSTRUCTION CATEGORY, WHERE:
CC1 - BASIC TRACEABILITY DOCUMENTATION
CC2 - PARTIAL TRACEABILITY DOCUMENTATION
CC3 AND CC4 - FULL TRACEABILITY DOCUMENTATION

- UNLESS NOTED OTHERWISE, ALL STEELWORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
STRUCTURAL STEEL TO ASINZS36078 AND ASINZS3679.
HOT ROLLED PLATES GRADE 250
UB, LC, PFC, ANGLES, FLATS GRADE 300PLUS
WB, WC GRADE 300
HOLLOW SECTIONS TO AS1163
RHS, CHS GRADE 350

- ALL PLATES THICKER THAN 50mm SHALL BE THROUGH THICKNESS TESTED ULTRASONICALLY IN ACCORDANCE WITH AS1710 LEVEL 3.
- S2. ALL WELDING SHALL BE PERFORMED BY AN EXPERIENCED WELDER AND COMPLY WITH AS1563, AS1554 AND AS5131.
- S3. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET LAID DOWN WITH AN APPROVED, COVERED ELECTRODE, U.N.O.
- S4. ALL BUTT WELDS SHALL BE FULLY PREPARED, FULL PENETRATION, QUALIFIED WELDS AND SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED. BUTT WELDED JOINT DETAILS SHALL BE SHOWN ON THE SHOP DRAWINGS.
- S5. ALL WELDS TO BE CARRIED OUT WITH E49X CONSUMABLES.
- ALL WELDING MUST BE AS CATEGORY SP CLASSIFICATION AND IN ACCORDANCE WITH ASS131 AND AS1554.
- ALL SITE BUTT WELDS TO BE TESTED BY RADIOGRAPHY OR ULTRASONIC AS PER TABLE 7.4 OF ASINZS 1554.1 AND ASS131.
- S6. **BOLT DESIGNATION - M20 8.8s**
- | | |
|-----|--------------------------------|
| M20 | DENOTES BOLT DIAMETER |
| 8.8 | DENOTES STRENGTH GRADE |
| S | DENOTES METHOD OF INSTALLATION |
- S7. ALL BOLTS SHALL BE EITHER COMMERCIAL GRADE BOLTS TO AS1111 (STRENGTH GRADE 4.6) OR HIGH STRENGTH BOLTS TO AS1252 (STRENGTH GRADE 8.8) INSTALLED IN ACCORDANCE WITH AS4100 AND ASS131.
- S8. **METHOD OF INSTALLATION**
- | | |
|--------|--|
| 4.6/S | TIGHTENED USING A STANDARD WRENCH TO A "SNUG TIGHT" CONDITION |
| 8.8/S | TIGHTENED USING A STANDARD WRENCH TO A "SNUG TIGHT" CONDITION |
| 8.8/TF | BOLTS IN A FRICTION TYPE JOINT, TIGHTENED BY THE PART TURN METHOD. |
| 8.8/TB | BOLTS IN A BEARING TYPE JOINT, TIGHTENED BY THE PART TURN METHOD. |

- S9. PROVIDE SUFFICIENT BOLT LENGTH TO ENSURE THAT ONE FULL THREAD IS EXPOSED AFTER TIGHTENING.
- S10. LOAD INDICATING WASHERS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- S11. **STRUCTURAL CONNECTIONS TO BE AS FOLLOWS UNO:**
- | | |
|----------------------------------|--------------------------------|
| CLEAT, STIFFENER & GUSSET PLATES | 10mm |
| BOLTS | M200 8.8/S BOLTS IN 22mm HOLES |

- S12. HOLDING DOWN BOLTS SHALL BE GRADE 4.6/S IN 6mm CLEARANCE HOLES. PROVIDE OVERSIZE WASHERS TO SUIT.
- S13. PROVIDE A WASHER OF APPROPRIATELY LARGER SIZE BETWEEN BOLTS ANY OVERSIZED OR SLOTTED HOLES.
- S14. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION AND UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED.
- S15. THE CONTRACTOR IS TO PROVIDE AN ELECTRONIC PDF COPY OR THREE COPIES OF ALL STEELWORK SHOP DRAWINGS TO THIS OFFICE FOR INSPECTION BEFORE COMMENCING FABRICATION. INSPECTION DOES NOT INCLUDE CHECKING OF DIMENSIONS OR LAYOUT, NOR PRECLUDE THE FABRICATOR FROM THE RESPONSIBILITY FOR THE CORRECTNESS OF THE WORK.
- S16. STEELWORK IS TO BE ADEQUATELY PROTECTED AGAINST CORROSION TO ACHIEVE A MEDIUM TERM LIFE BEFORE MAINTENANCE. EXTERNAL STEEL OR STEEL SUBJECT TO MOISTURE TO COMPLY WITH ASINZS 2312-2012. DETAILS OF PROTECTION SYSTEM TO BE SUBMITTED FOR APPROVAL WITH TENDER.
- S17. ALL INTERNAL STEELWORK OR STEELWORK IN NON CORROSIVE ENVIRONMENTS, OTHER THAN THAT ENCASED BY CONCRETE OR MATING SURFACES OF FRICTION TYPE CONNECTIONS, SHALL BE THOROUGHLY BRUSHED TO REMOVE ALL RUST AND LOOSE MILL SCALE AND GIVEN ONE COAT OF ZINC RICH PRIMER TO AS 4089. AFTER ERECTION, ANY DAMAGED PAINTWORK SHALL BE REPAIRED. PRIMER COLOUR AND FINAL PAINT COATS TO BE AS SPECIFIED BY ARCHITECT.
- S18. PROVIDE A CAMBER OF 2mm PER METRE SPAN FOR ALL STEELWORK LONGER THAN 5.0M.
- S19. STRUCTURAL STEELWORK TO BE CONCRETE ENCASED FOR FIRE PROTECTION SHALL BE ENCLOSED WITH F41 MESH PLACED 25mm CLEAR OF STEEL MEMBER. ENCASING TO PROVIDE 25mm MINIMUM COVER TO MESH ABOVE GROUND, 50mm MINIMUM COVER BELOW.
- S20. ALL EXPOSED STEELWORK MEMBERS SHALL BE HOT DIPPED GALVANIZED.
- S21. AFTER ERECTION, PAINT NUTS AND BOLT HEADS WITH ONE COAT OF APPROVED PRIMER.
- S22. STEELWORK BEARING ON MASONRY OR CONCRETE SHALL BEAR A MINIMUM OF 150mm AND BE SUPPORTED ON 20mm OF GROUT.
- S23. PROVIDE HOOK BOLTS FROM EVERY SECOND PURLIN TO ANY ROOF BRACING.
- S24. PURLINS AND GIRTS TO BE INSTALLED WITH BRIDGING TO THE PURLINGIRT MANUFACTURER'S SPECIFICATIONS.
- S25. SUPPLY PURLINS MINIMUM 2 SPANS CONTINUOUS U.N.O.
- S26. ALL EXPOSED LINTELS TO BE HOT-DIP GALVANIZED.
- S27. THE CONTRACTOR SHOULD PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER AND OTHER ELEMENTS TO STEEL, WHETHER OR NOT DETAILED IN THE DRAWINGS.
NON-SHRINK GROUT SHALL BE USED TO FILL ALL SPACES BETWEEN CONCRETE OR MASONRY, AND STEEL BEARING PLATES. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 50MPa AT 28 DAYS.
PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS, WITH "BREATHER" HOLES IF MEMBER IS TO BE HOT DIP GALVANIZED.
- S28. ALL OF THE STRUCTURAL STEEL MENTIONED IN THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH GOOD PRACTICE.

- (i) AS WE HAVE NOT VISITED THE SITE WE ARE UNCERTAIN AS TO WHETHER IT COMPLIES WITH EACH AND ALL CONDITIONS REQUIRED FOR SAFETY DURING ERECTION.
- (ii) WE HAVE NOT BEEN ENGAGED AS AN ERECTION ENGINEER, NOR HAVE WE BEEN ENGAGED TO CHECK ANY OBSERVATIONS OR REQUIREMENTS MADE BY THE ERECTION ENGINEER.
- (iii) IF APPROVAL OF STRUCTURAL DOCUMENTATION IS REQUIRED BY THE FABRICATOR OR SIMILAR, IT SHALL BE SUBMITTED TO THIS OFFICE WITH A PERIOD OF ONE WEEK'S GRACE AND A FEE WILL BE ARRANGED BEFORE PROCEEDING TO CHECK SAME. ANY GEOMETRIES THAT ARE DIFFICULT OR IMPOSSIBLE TO DOUBLE CHECK WILL BE REFERRED BACK TO THE FABRICATOR FOR CHECKING AND CORRECTION, AND THAT AT NO TIME SHALL A VISITATION TO THE SITE BE MADE TO TAKE OVER THE RESPONSIBILITY OF THE ERECTION ENGINEER UNLESS SUITABLE ARRANGEMENTS HAVE BEEN MADE.

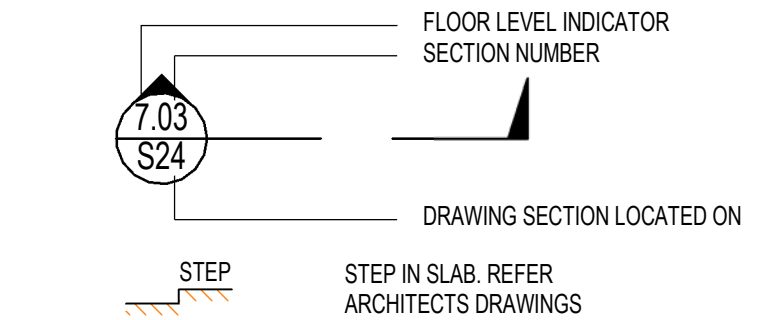
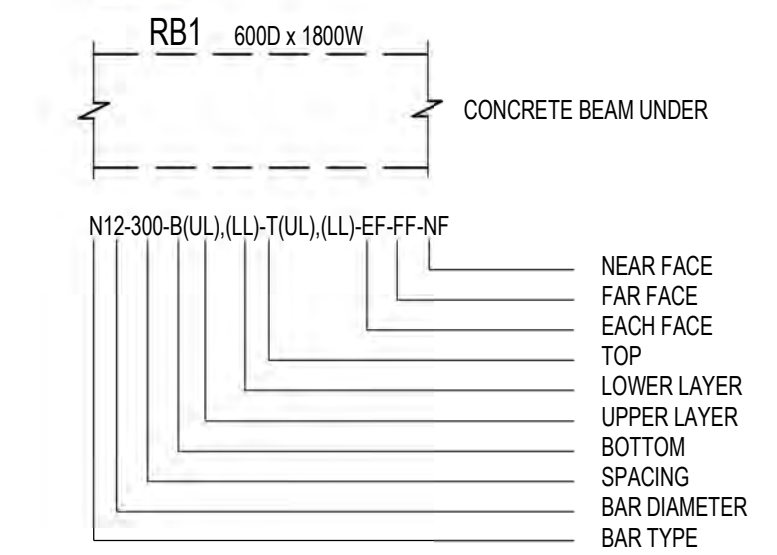
LEGEND

LEGEND APPLIES TO ALL STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE

- 200** PROPOSED SLAB THICKNESS.
- STUD WORK OVER
- LOADBEARING WALL UNDER
- BLOCKWORK OVER
- BRICKWORK OVER
- CONCRETE WALL OVER
- PRECAST WALL OVER
- LOADBEARING WALL UNDER & OVER
- EXISTING WALL TO BE DEMOLISHED

- 1B3** STEEL BEAM (FIRST FLOOR SUPPORT BEAM No B3)
- 1L2** LINTEL (LINTEL TO FIRST FLOOR OPENING No 2)
- 1FJ1** FLOOR JOIST (FIRST FLOOR JOIST No FJ1)

- CONCRETE COLUMN UNDER ONLY.
- CONCRETE COLUMN UNDER & OVER
- CONCRETE COLUMN OVER ONLY



DRAWING STATUS

CONSTRUCTION

ENGINEER



INTERNAL PROJECT No:
160623

ARCHITECT

Conrad Gargett

CLIENT / APPLICANT



PROJECT MANAGER



PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

GENERAL NOTES
SHEET 1

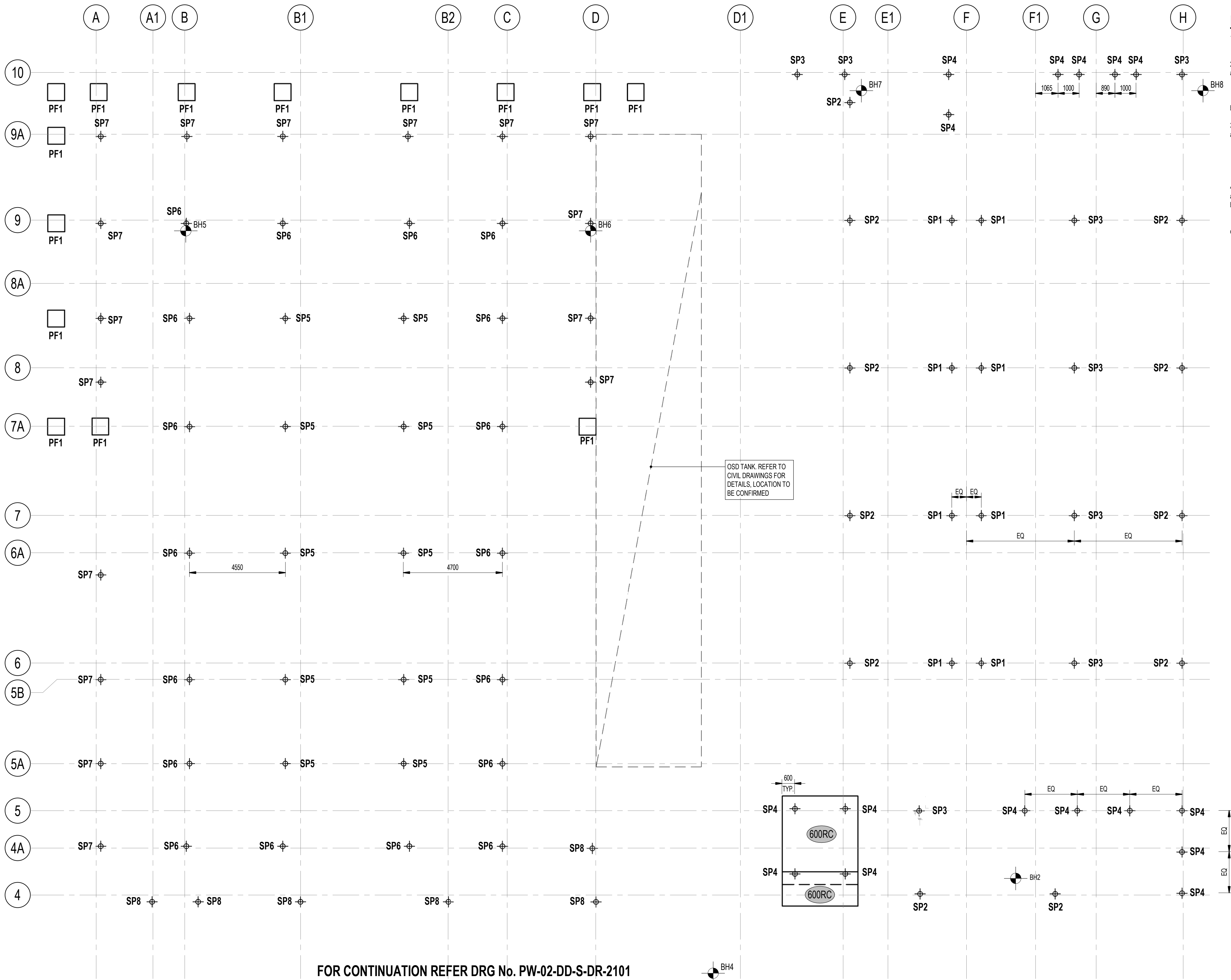
A1 SCALE
1 : 1

DATE:
07/02/20

PROCORE: REV:
S0002 -D

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:

PW - 02 -DD - S - DR -0002 -D



FOR CONTINUATION REFER DRG No. PW-02-DD-S-DR-2101

SCREW PILE LOAD SCHEDULE					
MARK	DL(kN)	LL(kN)	ULS EARTHQUAKE (kN)	ULTIMATE WIND (kN)	ULTIMATE SHEAR (kN)
SP1	450kN	200kN	-	-	20kN
SP2	500kN	220kN	-	-	20kN
SP3	250kN	110kN	-	-	10kN
SP4	250kN	150kN	±230kN	-	20kN
SP5	210kN	175kN	-	-	10kN
SP6	220kN	145kN	-	±70kN	10kN
SP7	70kN	50kN	-	-	10kN
SP8	20kN	10kN	-	±160kN	20kN
SP9	500kN	220kN	-	-	20kN

- PILING CONTRACTOR NOTES:
- PILING CONTRACTOR SHALL PREPARE PILE DESIGN AND CONSTRUCT PROPOSAL DOCUMENTS IN ACCORDANCE WITH THE ABOVE DESIGN LOADS AND GEOTECHNICAL REPORT.
 - PILING CONTRACTOR TO PREPARE DESIGN AND CONSTRUCT CERTIFICATION OF ALL SCREW PILES IN ACCORDANCE WITH AS 2159.
 - ALL PILES TO BE DESIGNED WITH SHEAR $V \leq 10kN$ MINIMUM AT TOP OF PILE.

PAD FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCEMENT		REMARKS
	WIDTH	LENGTH	DEPTH	BTM. REINF.	TOP REINF.	
PF1	800	800	500	4-N16 BOTH WAYS	4-N16 BOTH WAYS	ALL BARS TO BE FULLY COGGED AT END

- PAD FOOTING NOTES:
- ALL PAD FOOTINGS TO BE SEATED ON SILTY CLAY WITH ALLOWABLE BEARING CAPACITY OF 150 kPa. (TBC BY GEOTECH ENGINEER ON SITE).

FOOTING PLAN

SCALE 1 : 100

LEGEND

REFER TO DRAWING PW-02-DD-S-DR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-S-DR-2130 FOR STEELWORK MEMBER SCHEDULE
REFER TO DRAWING PW-02-DD-S-DR-3500 FOR SLAB ON GROUND DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3510 FOR CONCRETE COLUMN DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3520, 3521 FOR TYPICAL CONCRETE DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3540 FOR CONCRETE STAIR DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3550 FOR MASONRY WALL DETAILS

- PC#** DENOTES PILE CAP.
REFER TO DRAWING PW-02-DD-S-DR-3600 FOR DETAILS.
- PF#** DENOTES PAD FOOTING.
REFER TO DRAWING PW-02-DD-S-DR-3600 FOR DETAILS.
- BH#** DENOTES APPROXIMATE BOREHOLE LOCATION.
REFER TO GEOTECHNICAL REPORT FOR DETAILS.
- SP#** DENOTES SCREW PILE.
REFER TO PILING CONTRACTOR DRAWINGS FOR DETAILS.

PILING NOTES

- ALL DESIGN, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2159, AS3600 AND AS4100 CURRENT EDITIONS WITH AMENDMENTS.
- MINIMUM PILE DETAILS.
a. PILE SHAFT SHALL MINIMUM SHAFT DIAMETERS SHALL BE AS PROVIDED BY PILING CONTRACTOR DESIGN. BOTTOM OF PILE SHAFT SHALL BE CAPPED OFF. PILE SHALL BE CONCRETE FILLED WITH GRADE N32 CONCRETE. PILE TO PILE CAP DETAILS TO PILING CONTRACTOR.
b. MINIMUM PILE SHAFT EMBEDMENT SHALL BE AT LEAST 4 x PILE DIAMETER INTO CLAY.
- DESIGN:
a. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PILES BASED ON THE FOLLOWING CRITERIA.
 - REQUIRED DESIGN LOADS AS NOTED IN THE PILE LOAD SCHEDULE.
 - MAXIMUM LOAD DISPLACEMENT OF THE PILE, AT THE PILE CUTOFF LEVEL, FOR THE NOMINATED ALLOWABLE LOADS TO BE 10mm.
 - DURABILITY, TO BE ASSESSED IN ACCORDANCE WITH AS215.
- PRIOR TO THE INSTALLATION OF THE PILES SUBMIT FOR APPROVAL:
a. DRAWINGS DETAILING PROPOSED PILES.
b. CALCULATIONS AND GEOTECHNICAL INFORMATION DEMONSTRATING THAT THE PROPOSED PILING WILL MEET THE PERFORMANCE REQUIREMENTS.
- A CERTIFICATE OF STRUCTURAL ADEQUACY PREPARED BY A CHARTERED PROFESSIONAL ENGINEER REGISTERED ON THE NATIONAL PROFESSIONAL ENGINEERS REGISTER (NPER), CERTIFYING THAT THE PILES HAVE BEEN DESIGNED IN ACCORDANCE WITH AS2159 AND AS4100, TO SATISFY THE SPECIFIC DESIGN CRITERIA.

1 0 1 2 3 4 5
SCALE 1:100 @ A1 m

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mail@conradgargett.com.au ABN 49 325 121 350
DO NOT SCALE DRAWING & VERIFY ALL DIMENSIONS AND LEVELS ON SITE
NOMINATED ARCHITECT: LAWRENCE TOLDO NSW Reg. 10255

REV	DESCRIPTION	DATE	APPD
A	TENDER ISSUE	24/11/17	
B	50% DD ISSUE	23/11/18	
C	100% DD ISSUE	25/01/19	
D	PRELIMINARY ISSUE	31/01/20	
E	CONSTRUCTION ISSUE	07/02/20	

DRAWING STATUS
CONSTRUCTION

ENGINEER

Adams
DESIGNING THE FUTURE

INTERNAL PROJECT No:
160623

ARCHITECT

Conrad Gargett

CLIENT / APPLICANT

NSW Education
GOVERNMENT School Infrastructure

PROJECT MANAGER

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

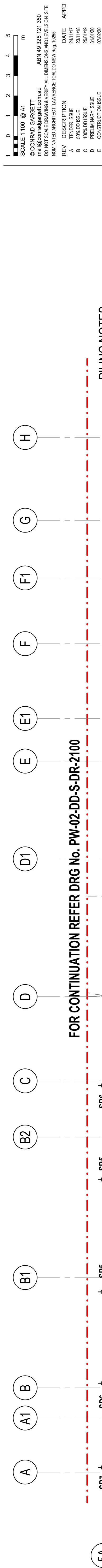
**FOOTING PLAN
SHEET 1**

A1 SCALE
1 : 100

DATE:
07/02/20

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:
PW - 02 - DD - S - DR -2100 -E

PROCORE: REV:
S2100 -E



PILING NOTES

- a. ALL DESIGN WORKSHOPS AND MATERIALS SHALL BE IN ACCORDANCE WITH A52-159, A53-900 AND A54-100 CURRENT EDITIONS WITH AMENDMENTS.
- b. MINIMUM PILE DETAILS.
- c. PILE SHAFT SHALL: MINIMUM SHAFT DIAMETERS SHALL BE AS PROVIDED BY PILING CONTRACTOR. DESIGN EDITION OF PILE SHAFT SHALL BE IN ACCORDANCE WITH A52-159, A53-900 AND A54-100 CURRENT EDITIONS WITH AMENDMENTS. CONCRETE PILE TO PILE CAP DETAILS TO PILING CONTRACTOR.
- d. MINIMUM PILE SHAFT EMBEDMENT SHALL BE AT LEAST 4' PILE DIAMETER INTO CLAY.
- e. DESIGN:
 - a. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PILES BASED ON THE FOLLOWING CRITERIA:
 - REQUIRED DESIGN LOADS AS NOTED IN THE PILE LOAD SCHEDULE.
 - REQUIRED MINIMUM EMBEDMENT LENGTHS TO BE DETERMINED TO MEET THE REQUIRED ALLOWABLE LOADS TO BE DETERMINED.
 - DURABILITY - TO BE ASSESSED IN ACCORDANCE WITH A52-15.
 - b. PRIOR TO THE INSTALLATION OF THE PILES SUBMIT FOR APPROVAL: DRAWINGS DETAILING PROPOSED PILES.
 - c. CALCULATIONS AND GEO TECHNICAL INFORMATION DEMONSTRATING THAT THE PROPOSED PILING WILL MEET THE PERFORMANCE REQUIREMENTS.
 - d. THE PILING STRUCTURAL ANALYSIS PREPARED BY A CHARTERED PROFESSIONAL ENGINEER REGISTERED ON THE NATIONAL PROFESSIONAL ENGINEERS REGISTER (NPER), CERTIFYING THAT THE PILES HAVE BEEN DESIGNED IN ACCORDANCE WITH A52-159 AND A54-100, TO SATISFY THE SPECIFIC DESIGN CRITERIA.

DRAWING STATUS

CONSTRUCTION

ENGINEER

Adams
DESIGNING THE FUTURE

INTERNAL PROJECT NO:

160623

ARCHITECT

Conrad Gargett

CLIENT / APPLICANT



PROJECT MANAGER

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)

PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

FOOTING PLAN
SHEET 2

A1 SCALE

1 : 100

DATE:

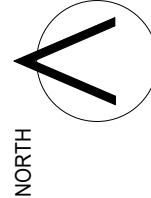
07/02/20

PROCORE: REV:

S2101 -E

SCHOOL ID	PAC ID	STAGE	DISCIPLINE	DOC TYPE	DRAWING No:	REV:
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PW-02-DD-S-DB-2101-E



LEGEND

REFER TO DRAWING PW-02-DD-SR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-SR-2130 FOR STEELWORK MEMBER SCHEDULE
REFER TO DRAWING PW-02-DD-SR-3500 FOR SLAB ON GROUND DETAILS
REFER TO DRAWING PW-02-DD-SR-3510 FOR CONCRETE COLUMN DETAILS
REFER TO DRAWING PW-02-DD-SR-3520, 3521 FOR TYPICAL CONCRETE DETAILS
REFER TO DRAWING PW-02-DD-SR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS
REFER TO DRAWING PW-02-DD-SR-3540 FOR CONCRETE STAIR DETAILS
REFER TO DRAWING PW-02-DD-SR-3550 FOR MASONRY WALL DETAILS

PC# DENOTES PILE CAP.

DE# DENOTES PAD FOOTING.

PL# DENOTES APPROXIMATE BOREHOLE LOCATION.

SP# DENOTES SCREW PILE.

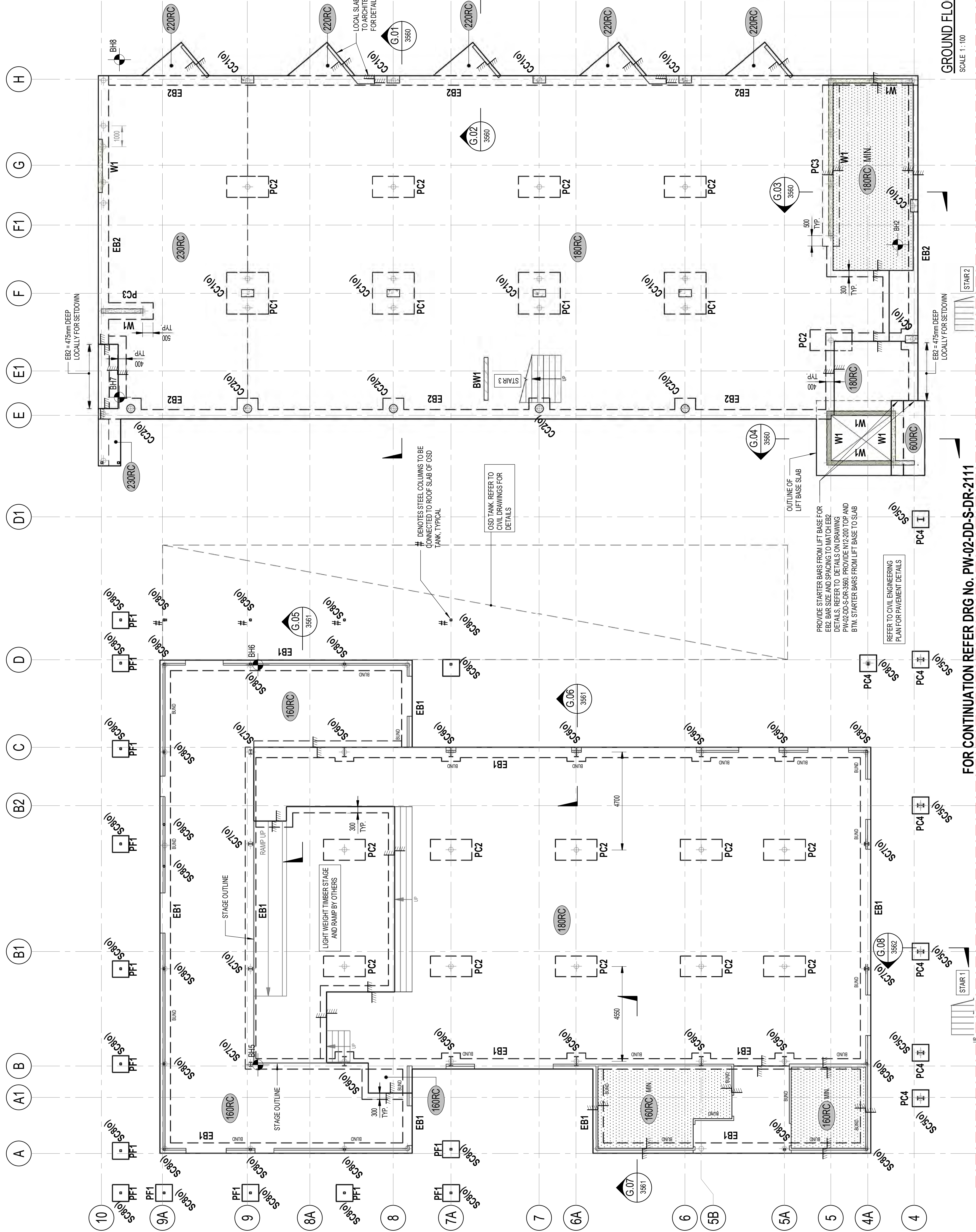


SCREW PILE LOAD SCHEDULE					
MARK	DL(kN)	LL(kN)	ULS EARTHQUAKE (kN)	ULTIMATE WIND (kN)	ULTIMATE SHEAR (kN)
SP1	450kN	200kN	-	-	20kN
SP2	500kN	220kN	-	-	20kN
SP3	250kN	110kN	-	-	10kN
SP4	250kN	150kN	±230kN	-	20kN
SP5	210kN	175kN	-	-	10kN
SP6	220kN	145kN	-	±70kN	10kN
SP7	70kN	50kN	-	-	10kN
SP8	20kN	10kN	-	±160kN	20kN
SP9	500kN	220kN	-	-	20kN

- PILING CONTRACTOR NOTES:**
1. PILING CONTRACTOR SHALL PREPARE PILE DESIGN AND CONSTRUCT PROPOSAL DOCUMENTS IN ACCORDANCE WITH THE ABOVE DESIGN LOADS AND GEOTECHNICAL REPORT.
 2. PILING CONTRACTOR TO PREPARE DESIGN AND CONSTRUCT CERTIFICATION OF ALL SCREW PILES IN ACCORDANCE WITH AS 2169.
 3. ALL PILES TO BE DESIGNED WITH SHEAR $V_s = 10kN$ MINIMUM AT TOP OF PILE.

PAD FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCEMENT		REMARKS
	WIDTH	LENGTH	DEPTH	BTM. REINF.	TOP REINF.	
PFI	800	800	500	4-N6 BOTH WAYS	4-N6 BOTH WAYS	ALL BARS TO BE FULLY COGGED AT END

PAD FOOTING NOTES:
1. ALL PAD FOOTINGS TO BE SEATED ON SILTY CLAY WITH ALLOWABLE BEARING CAPACITY OF 150 kPa. (TBC BY GEOTECH ENGINEER ON SITE).



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1. GRASS, ROOT MATERIAL AND INFILL MATERIAL TO BE STRIPPED. GROUND TO BE EXCAVATED TO THE BOTTOM OF THE PILE CAP LEVEL.
2. GROUND PREPARATION TO MEET VOID FORMER'S MANUFACTURER'S SPECIFICATION.
3. INSTALL SCREW PILES.
4. INSTALL VOID FORMERS WHERE REQUIRED TO THE UNDERSIDE OF SLAB LEVEL.
5. PLACE POLYETHENE WATERPROOFING MEMBRANE.
6. PLACE GROUND FLOOR REINFORCEMENT FOR SLAB AND PILE CAPS.
7. POUR AND CURE GROUND FLOOR CONCRETE.

GROUND FLOOR

D-S-DR-0002 FOR G
D-S-DR-3500 AND 35
D-S-DR-3510 FOR C

S2110 -E

E D R A W I N G N o : R E V : 1

MARK	DIMENSIONS		REINFORCEMENT		
	WIDTH	DEPTH	BTM. REINF.	TOP REINF.	LIQS
EB1	450	600	4-N16	4-N16	2-N12-250
EB2	450	600	5-N16	5-N16	2-N12-250
EB3	500	600	5-N16	5-N16	2-N12-250

EDGE BEAM NOTES:

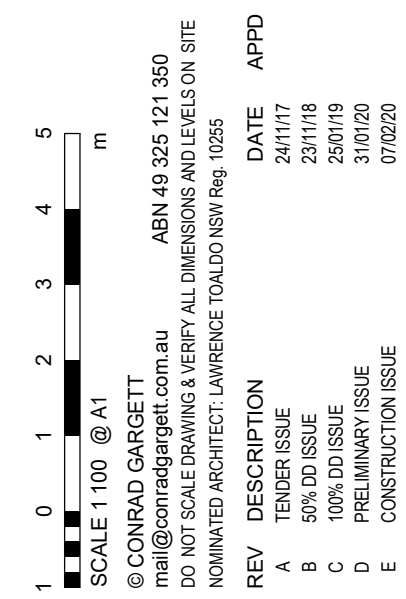
1. PILING CONTRACTOR TO CONFIRM IF EDGE BEAM WIDTH OF 450mm IS SUFFICIENT FOR THE SCREW PILES DESIGN AND INSTALLATION.

	DIMENSIONS		
	MARK	WIDTH	DEPTH
	PC1	2000	600
	PC2	2000	600
	PC3	800	600
	PC4	800	600

REMARKS
FOR PILE CAP REINFORCEMENT - TOP AND BTM. REFER TO INFORCEMENT DRAWINGS PW-02-DD-S-DR-2115 TO PW-02-DD-S-DR-2118 AND DETAILS DRAWINGS PW-02-DD-S-DR-3500, PW-02-DD-S-DR-3560 TO PW-02-DD-S-DR-3562 TYPICAL.

REFER TO ARCHITECTS DRAWINGS FOR FINAL LOCATION AND DETAILS

10 DENOTES 190 BLOCKWORK WALL, REFER TO STAIR DRAWING
11 DW-02-DD-S-DR-3540 FOR DETAILS



@CONRAD GARGETT mail@conradgargett.com.au DO NOT SCALE DRAWING & VERIFY ALL DIMENSIONS AND LEVELS ON SITE NOMINATED ARCHITECT: LAWRENCE TOLKDO NSW Reg. 10265	ABN 49 325 121 350 DATE 24/11/17 23/01/19 31/01/20 07/02/20	APPD 24/11/17 23/01/19 31/01/20 07/02/20
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DRAWING STATUS

CONSTRUCTION

ENGINEER

Adams
DESIGNING THE FUTURE

INTERNAL PROJECT No:
160623

**Conrad
Gargett**

CLIENT / APPLICANT

 **Education**
School Infrastructure

PROJECT MANAGER

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)

PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

GROUND FLOOR
ARRANGEMENT PLAN
SHEET 2

A1 SCALE

As indicated

DATE:

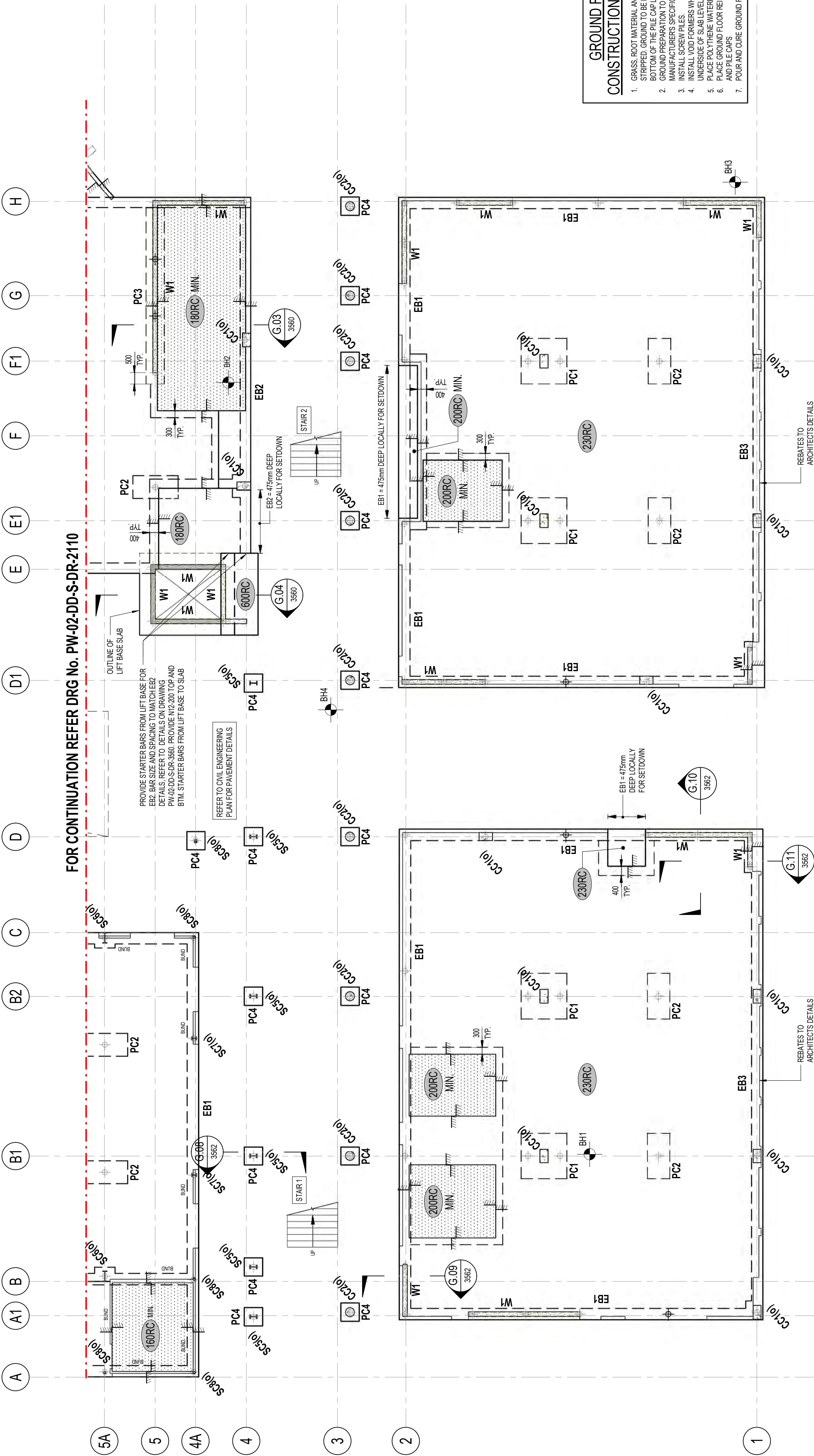
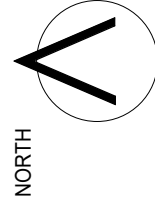
07/02/20

PROCORE: REV:

S2111 -E

SCHOOL ID	PAC ID	STAGE	DISCIPLINE	DOC TYPE	DRAWING No:	REV:
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PW - 02-DD - S - DR - 2111 - E



GROUND FLOOR GENERAL ARRANGEMENT PLAN

SCALE 1:100

EDGE BEAM SCHEDULE							
MARK	DIMENSIONS		REINFORCEMENT				REMARKS
	WIDTH	DEPTH	BTM REINF.	TOP REINF.	LIGS		
EB1	450	600	4-N16	4-N16	2-N12,250	REINFORCEMENT SHOWN ON PLAN. REFER TO REINFORCEMENT DRAWINGS PW-02-DD-SDR-2115 TO PW-02-DD-SDR-2118, TYPICAL. LOCAL LIGATURE CHANGE. REFER TO REINFORCEMENT PLAN AND DETAILS.	
EB2	450	600	5-N16	5-N16	2-N12,250		
EB3	500	600	5-N16	5-N16	2-N12,250		
EB4	500	600	5-N16	5-N16	2-N12,250		

EDGE BEAM NOTES:
1. PILING CONTRACTOR TO CONFIRM IF EDGE BEAM WIDTH OF 450mm IS SUFFICIENT FOR THE SCREW PILES DESIGN AND INSTALLATION

PILE CAP SCHEDULE				
MARK	DIMENSIONS			REMARKS
	WIDTH	LENGTH	DEPTH	
PC1	2000	2000	600	FOR PILE CAP REINFORCEMENT - TOP AND BTM. REFER TO REINFORCEMENT DRAWINGS PW-02-DD-SDR-2115 TO PW-02-DD-S-DR-2118 AND DETAILS DRAWINGS PW-02-DD-S-DR-3500, PW-02-DD-S-DR-3560 TO PW-02-DD-S-DR-3562 TYPICAL.
PC2	2000	1000	600	
PC3	800	-	600	
PC4	800	800	600	

LEGEND

REFER TO DRAWING PW-02-DD-S-DR-0002 FOR GENERAL NOTES

REFER TO DRAWING PW-02-DD-S-DR-3500 AND 3501 FOR FOOTING AND SLAB ON GROUND DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3510 FOR CONCRETE COLUMN DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3520 FOR CONCRETE DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3521 RC WALL DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3540 FOR CONCRETE STAIR DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3550 FOR MASONRY WALL DETAILS

REFER TO DRAWING PW-02-DD-S-DR-3560 FOR GROUND FLOOR SECTIONS

RC
DENOTES REINFORCED CONCRETE SLAB, REFER TO THICKNESS ON PLAN.
FOR REINFORCEMENT PLANS REFER TO DRG. PW-02-DD-S-DR-2115 TO 2118.

 DENOTES PENETRATION IN SLAB. REFER TO SERVICES ENGINEERS DRAWINGS FOR DETAILS AND LOCATIONS
SCHEDULED ELEVATION IN USE.

ALL PENETRATIONS TO BE INDIVIDUALLY SLEEVED PIPES.
SLAB DESIGNER TO CO-ORDINATE SLEEVED PIPE PENETRATIONS WITH SERVICES DRAWINGS.

 DENOTES WET AREA SETDOWN IN SLAB.

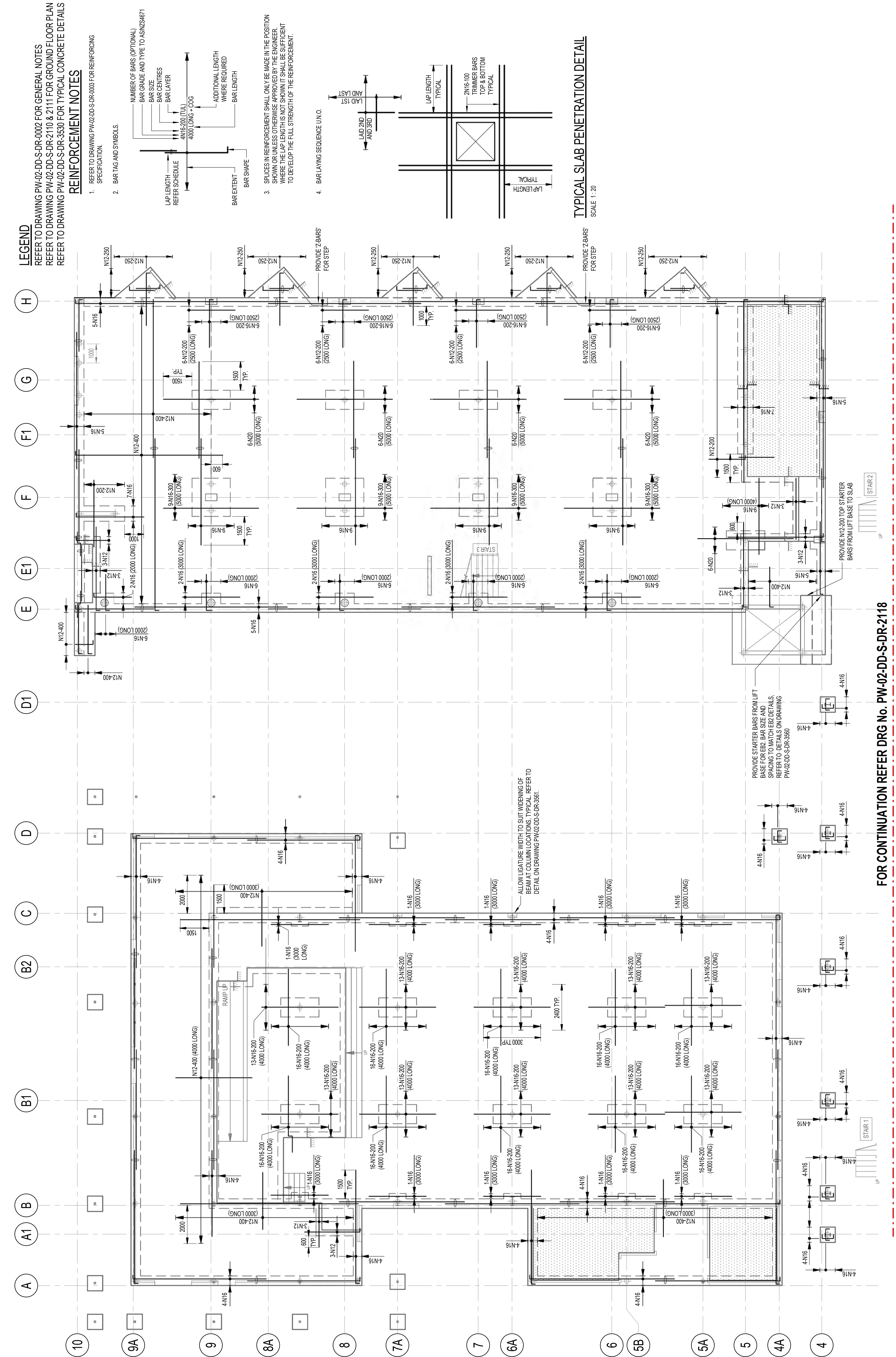
REFER TO ARCHITECTS DRAWINGS FOR FINAL LOCATION AND DETAILS

BLOCKWORK NOTE:

UNLESS NOTED OTHERWISE, ALL BLOCKWORK TO BE CORE FILLED AS PER NOTE M8 ON DRAWING PW-02-DD-S-DR-0002 REFER TO TYPICAL DETAILS FOR ARTICULATION JOINT DETAILS

OSD TANK

UNDERGROUND WATER TANK IS NOT TO UNDERMINE ANY FOOTINGS PROVIDE BLINDING 15MPa BLINDING CONCRETE AS REQUIRED.

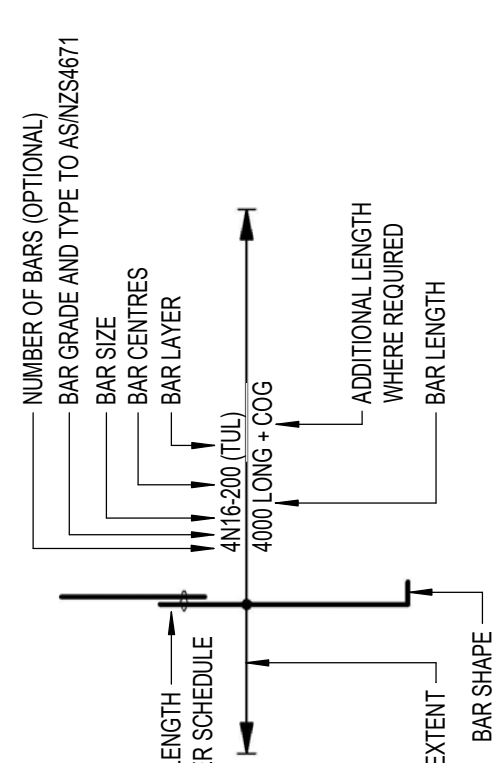


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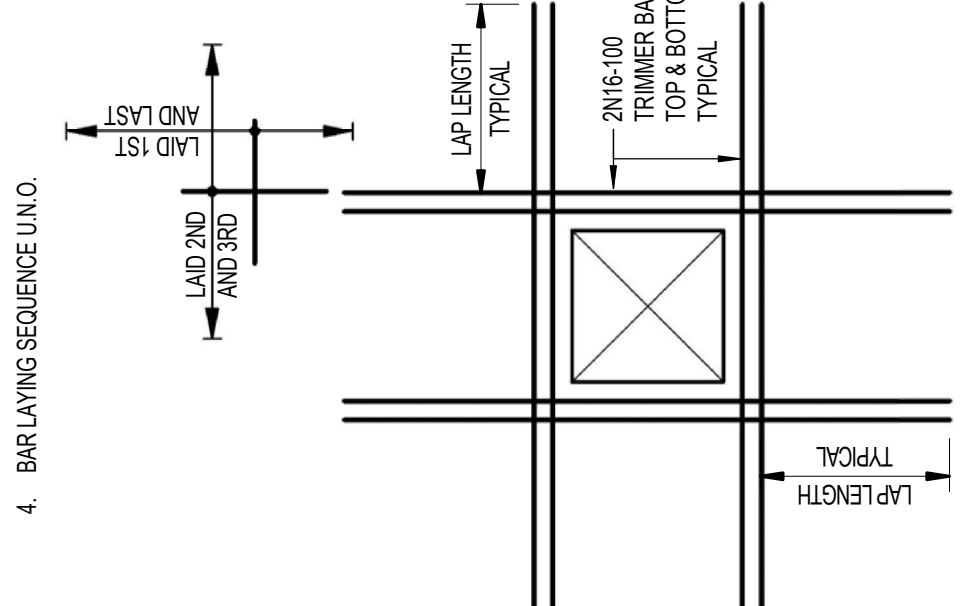
REFER TO DRAWING PW-02-DD-S-DR-0002 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-S-DR-2110 & 2111 FOR GROUND FLOOR PLAN
REFER TO DRAWING PW-02-DD-S-DR-3530 FOR TYPICAL CONCRETE DETAILS

REINFORCEMENT NOTES

- 1. REFER TO DRAWING PW-02-DD-S-DR-0003 FOR REINFORCING SPECIFICATION.
- 2. BAR TAG AND SYMBOLS.



- 3. SPLICES IN REINFORCEMENT SHALL ONLY BE MADE IN THE POSITION SHOWN OR UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.
- 4. BAR LAYING SEQUENCE U.N.O.



TYPICAL SLAB PENETRATION DETAIL
SCALE 1:20

TOP REINFORCEMENT NOTES FOR HALL AREA

- 1. ALL SLABS TO BE (M/Pa) CONCRETE 30mm COVER.
- 2. SLAB REINFORCEMENT TO BE SL102 TOP WITH EXTRA REINFORCEMENT BARS NOTED ON PLAN.
- 3. ANCHORAGE / SPLICE LENGTH - REFER TO TABLE ON DRAWING PW-02-DD-S-DR-3530.
- 4. BEAM REINFORCEMENT TAKES PRIORITY TO SLAB REINFORCEMENT. CRANK SLAB BARS TO SUIT.

GROUND FLOOR TOP REINFORCEMENT PLAN

SCALE 1:100

TOP REINFORCEMENT NOTES FOR HOME BASE (BETWEEN GRID 4 - 10)

- 1. ALL SLABS TO BE (M/Pa) CONCRETE 30mm COVER.
- 2. SLAB REINFORCEMENT TO BE SL102 TOP WITH EXTRA REINFORCEMENT BARS NOTED ON PLAN.
- 3. ANCHORAGE / SPLICE LENGTH - REFER TO TABLE ON DRAWING PW-02-DD-S-DR-3530.
- 4. BEAM REINFORCEMENT TAKES PRIORITY TO SLAB REINFORCEMENT. CRANK SLAB BARS TO SUIT.

FOR CONTINUATION REFER DRG No. PW-02-DD-S-DR-2118

1 0 1 2 3 4 5
SCALE 1:100 @ A1
m

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REV DESCRIPTION DATE APPD
A CONSTRUCTION ISSUE 07/2020

DRAWING STATUS
ENGINEER

CONSTRUCTION

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INTERNAL PROJECT No:
160623

ARCHITECT

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)

PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

GROUND FLOOR TOP
REINFORCEMENT
PLAN SHEET 1

A1 SCALE
As indicated

DATE
07/02/20

PROCEDURE
REV:
S2117 -A

SCHOOL ID
PW - 02 - DD - S - DR - 2117 - A

PAC ID
PW - 02 - DD - S - DR - 2117 - A

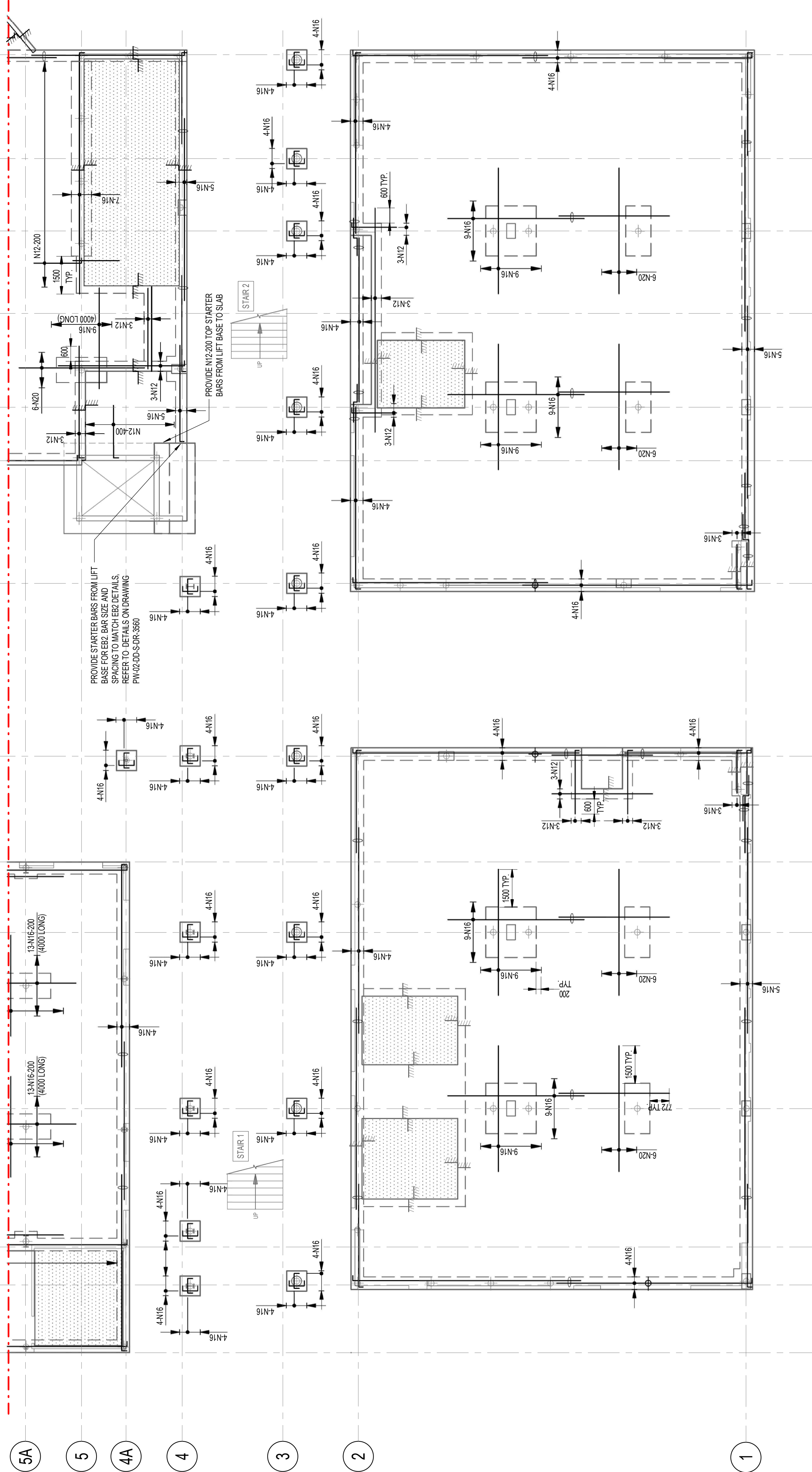
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PW - 02 - DD - S - DR - 2117 - A

DISCIPLINE
PW - 02 - DD - S - DR - 2117 - A

DOCTYPER
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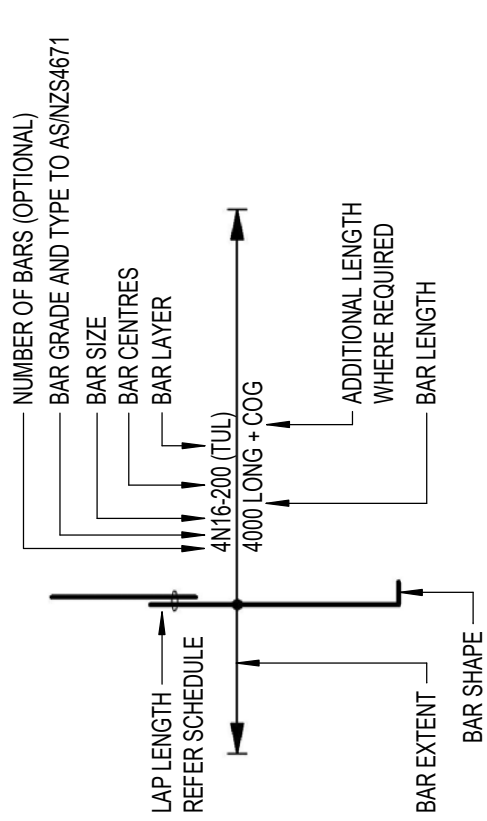
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FOR CONTINUATION REFER DRG No. PW-02-DD-S-DR-2118

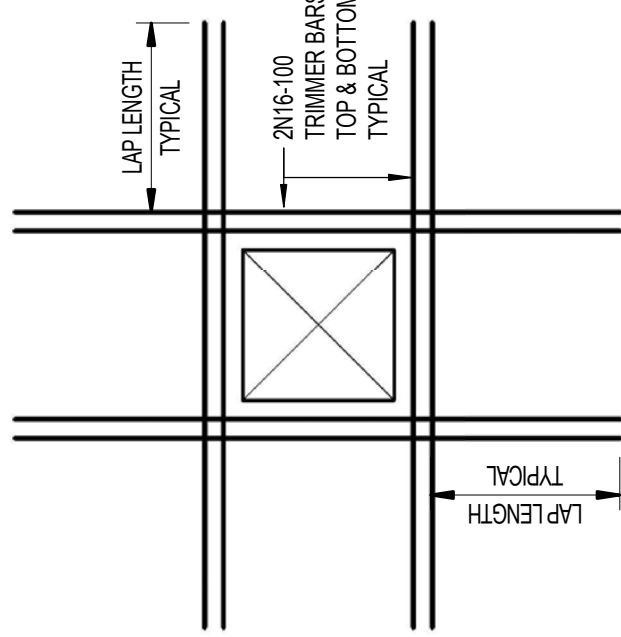
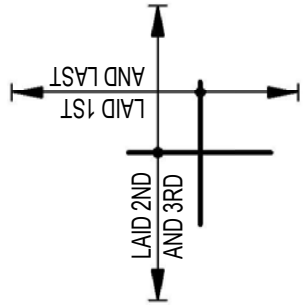


REINFORCEMENT NOTES

1. REFER TO DRAWING PW-02-DD-S-DR-008 FOR REINFORCING SPECIFICATION.
2. BAR TAG AND SYMBOLS.



3. SPLICES IN REINFORCEMENT SHALL ONLY BE MADE IN THE POSITION SHOWN OR UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.
4. BAR LAYING SEQUENCE (U.N.O.).



TYPICAL SLAB PENETRATION DETAIL
SCALE 1:20

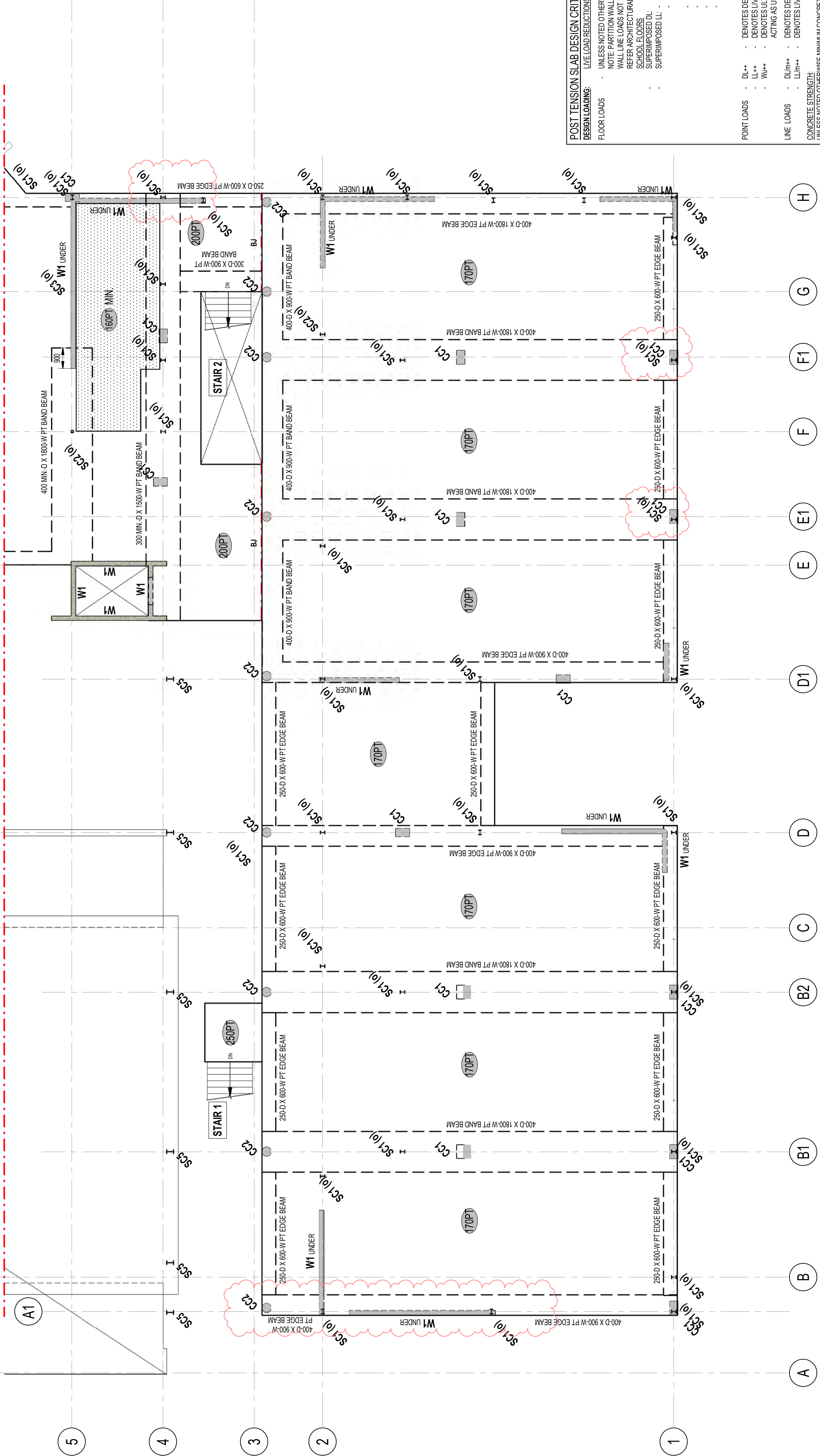
GROUND FLOOR TOP REINFORCEMENT PLAN

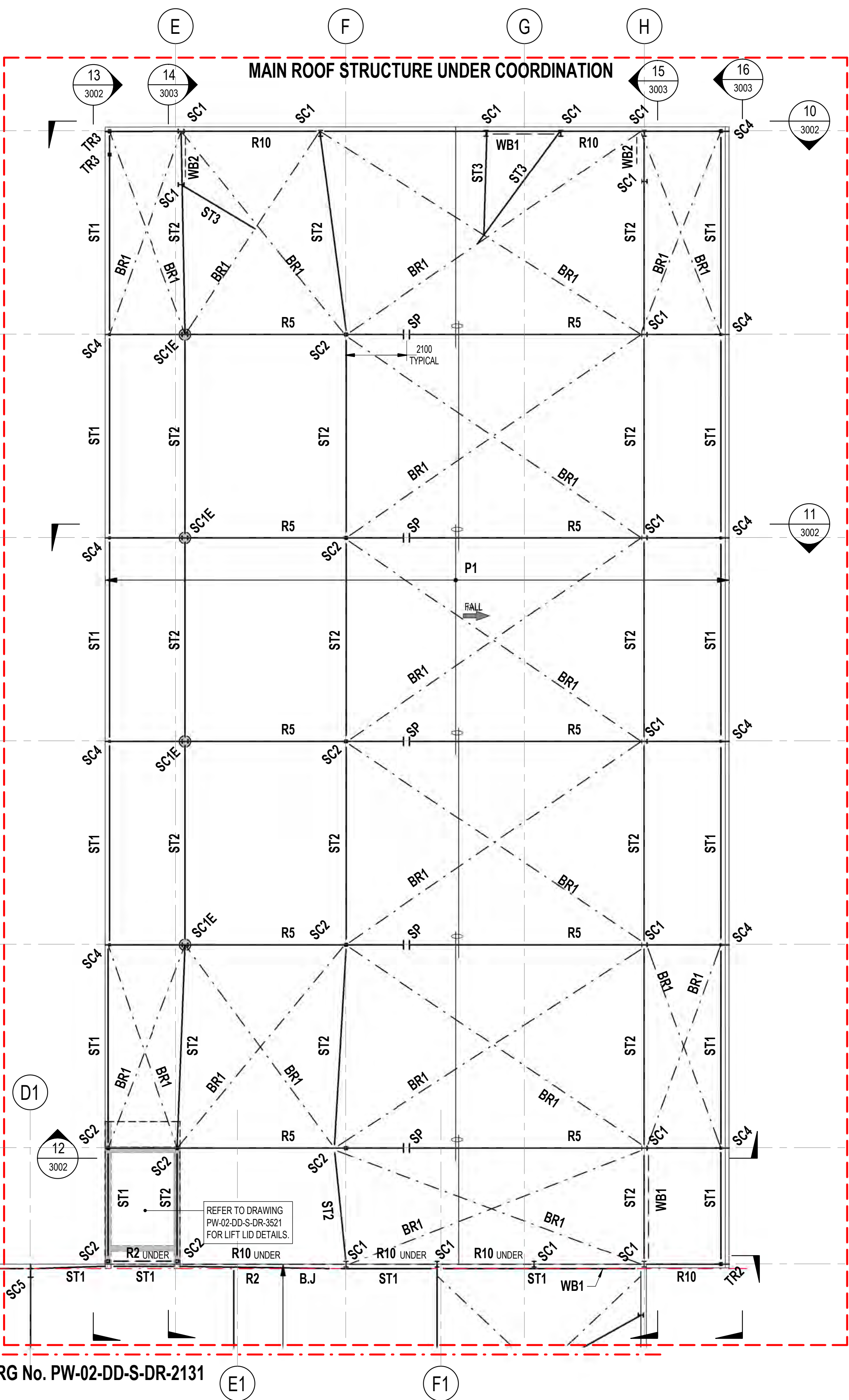
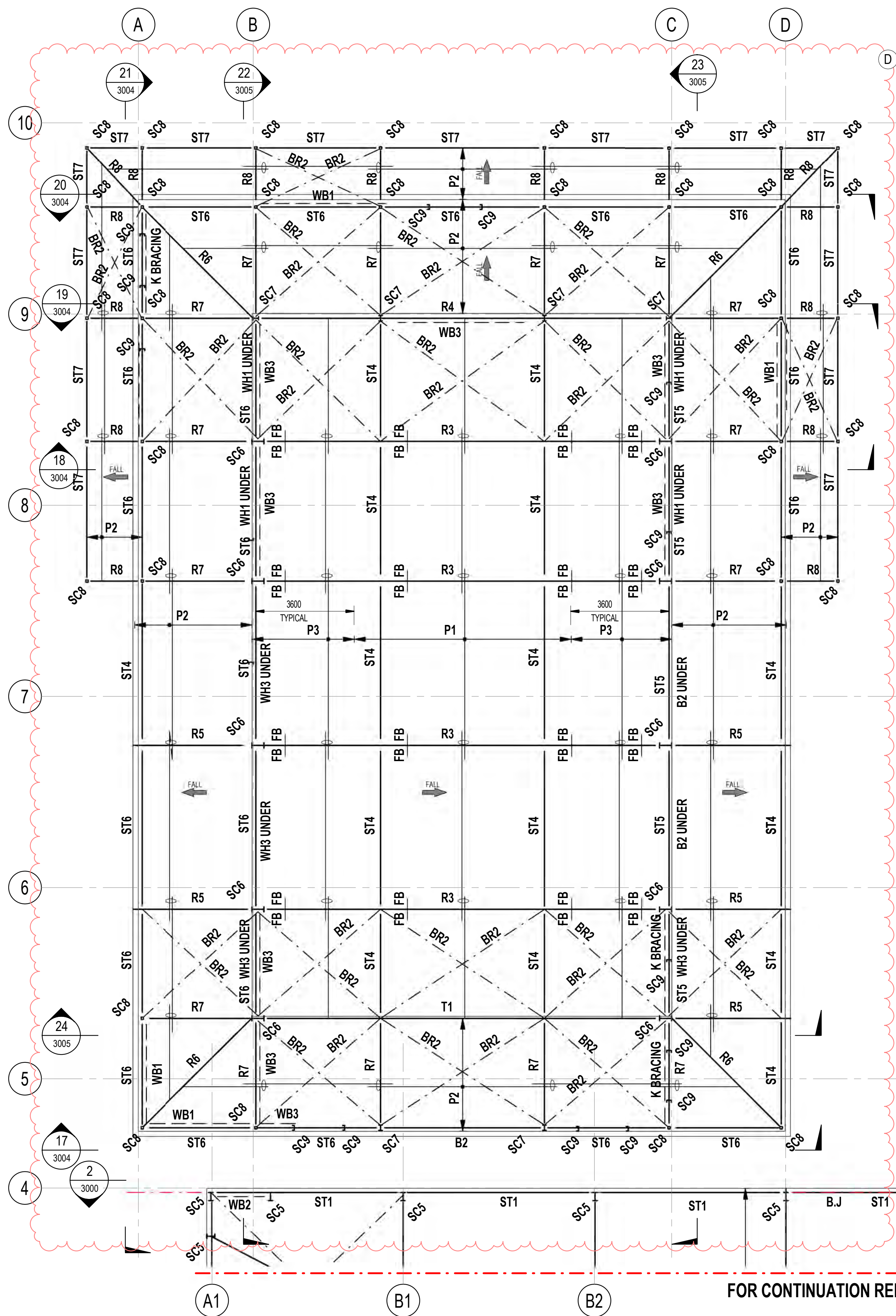
SCALE 1:100

TOP REINFORCEMENT NOTES FOR OFFICE BUILDINGS BETWEEN GRID 1-2

1. ALL SLABS TO BE 40MPa CONCRETE, 30mm COVER.
2. SLAB REINFORCEMENT TO BE N12-200 TOP WITH EXTRA REINFORCEMENT BARS NOTED ON PLAN.
3. ANCHORAGE / SPLICE LENGTH - REFER TO TABLE ON DRAWING PW-02-DD-S-DR-360.
4. BEAM REINFORCEMENT TAKES PRIORITY TO SLAB REINFORCEMENT. CRANK SLAB BARS TO SUIT.

FOR CONTINUATION REFER DRG No. PW-01-SD-S-DR-2120





FOR CONTINUATION REFER DRG No. PW-02-DD-S-DR-2131

ROOF FRAMING PLAN

SCALE 1:100

LEGEND

REFER TO DRAWING PW-02-DD-S-DR-0002 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-S-DR-3000 FOR STEELWORK ELEVATIONS
REFER TO DRAWING PW-02-DD-S-DR-3530 FOR TYPICAL CONCRETE DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3540 FOR TYPICAL STEELWORK DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3550 FOR MASONRY DETAILS

SP DENOTES SPLICE JOINT. REFER TO DETAIL ON DRAWING PW-02-DD-S-DR-3540.

- NOTES:
1. PARAPET RESTRAINT STEELWORK NOT SHOWN ON PLAN FOR CLARITY. REFER TO DRAWING PW-02-DD-S-DR-3540 FOR DETAILS.
 2. ROOF PURLINS AND WALL GIRTS TO BE ROLL FORMED FROM HOT-DIP ZINC COATED HIGH STRENGTH BHP STEEL STRIP CONFORMING TO AS 1397, G450/G500/G550 GRADE. ROOF AND WALL BRACING SYSTEM ARE TO BE IN ACCORDANCE WITH PURLIN AND GIRT MANUFACTURERS SPECIFICATIONS (STRAMIT). PROVIDE 75 x 75 x 5 EA TRIMMING SUPPORT TO ENDS OF ALL UNSUPPORTED SHEETING.
 3. ALL BRACE MEMBERS SHALL BE TIED TO EVERY SECOND PURLIN CROSSED WITH UNISTRUT STRAP TO PREVENT SAG.
 4. PRECAMBER TO ALL STRUCTURAL STEEL RAFTERS, TRUSSES AND PORTALS SHALL BE 5mm FOR EVERY 2000mm OF SPAN UNLESS NOTED OTHERWISE ON PLAN. (REFER LEGEND FOR DESIGNATION)
 5. UNLESS NOTED OTHERWISE ALL EXTERNAL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANISED.
 6. PROVIDE FIRE PROTECTION TO ALL STRUCTURAL STEEL ELEMENTS AS REQUIRED. (REFER ARCHITECTS DRAWING FOR FIRE RATING REQUIREMENTS)
 7. UNLESS NOTED OTHERWISE FLYBRACE AT EVERY 3RD PURLIN.

SCALE 1:1 @ A1 mm

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B 50% DD ISSUE 23/11/18
C 60% DD ISSUE 07/12/19
D 100% DD ISSUE 06/12/19

DRAWING STATUS
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INTERNAL PROJECT No:
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PROJECT

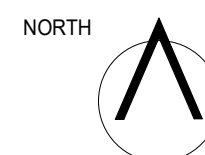
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

**ROOF FRAMING PLAN
SHEET 1**

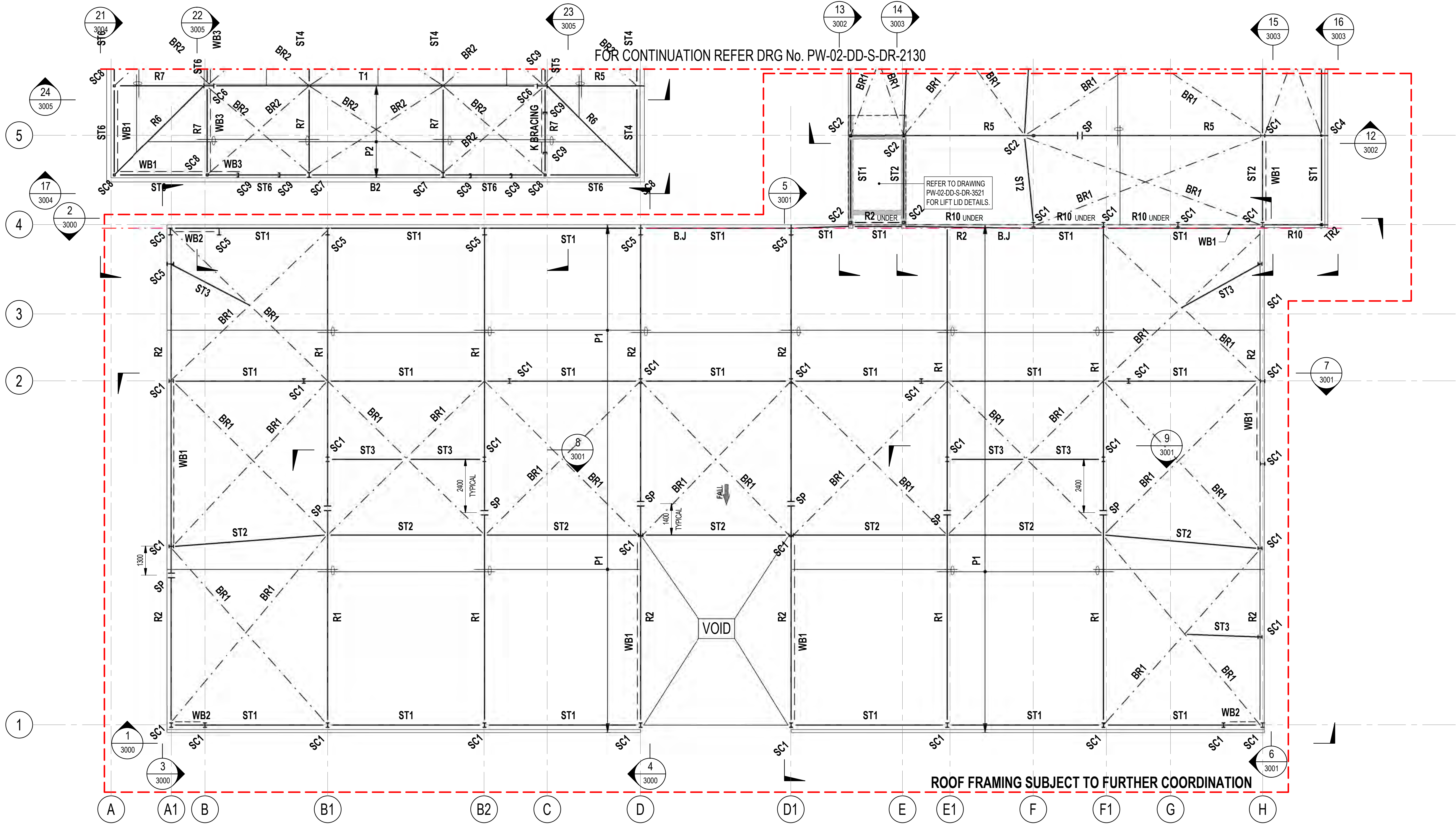
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DATE:
06/12/19



SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:
PW - 02 - DD - S - DR - 2130 - D

REFER TO DRG. PW-02-DD-S-DR-2131 STEEL MEMBER SCHEDULE



MEMBER SCHEDULE		
MARK	SECTION	REMARKS
SC1	200UB22.3	STEEL COLUMN
SC2	100 x 100 x 5.0 SHS	STEEL COLUMN
SC3	125 x 125 x 5.0 SHS	STEEL COLUMN
SC4	65 x 65 x 5.0 SHS	STEEL COLUMN
SC5	310UB40	STEEL COLUMN
SC6	460UB67	STEEL COLUMN
SC7	200UB22.3	STEEL COLUMN
SC8	89 x 89 x 3.5 SHS	STEEL COLUMN
SC9	180 PFC	STEEL COLUMN
SC10	310UB32	STEEL COLUMN
R1	310UB40	RAFTER
R2	250UB25	RAFTER
R3	460UB67	RAFTER, REFER TO SECTION 18 FOR HAUNCH DETAILS.
R4	200UB22	RAFTER
R5	310UB32	RAFTER
R6	250UB25	RAFTER
R7	180UB16	RAFTER
R8	180UB16	RAFTER
R9	310UB40	RAFTER
R10	180UB18	RAFTER
B1	150UB14	BEAM
B2	200 x 200 x 5.0 SHS	BEAM
T1	150UC23.4	TRUSS

MEMBER SCHEDULE		
MARK	SECTION	REMARKS
ST1	150 x 100 x 4.0 RHS	STRUT
ST2	114.3 x 3.6 CHS	STRUT
ST3	76.1 x 3.2 CHS	STRUT
ST4	114.3 x 3.6 CHS	STRUT
ST5	150 x 100 x 4.0 RHS	STRUT
ST6	200 x 100 x 4.0 RHS	STRUT
ST7	101.6 x 3.2 CHS	STRUT
WH1	150 x 100 x 4.0 RHS	WINDOW HEAD (REFER TO FRAMING ELEVATIONS)
WH2	125 x 75 x 4.0 RHS	WINDOW HEAD (REFER TO FRAMING ELEVATIONS)
WH3	200 x 200 x 5.0 SHS	WINDOW HEAD (REFER TO FRAMING ELEVATIONS)
WB1	90 x 10 FLAT BAR	WALL BRACING (REFER TO FRAMING ELEVATIONS)
WB2	100 x 100 x 5.0 SHS	WALL BRACING (REFER TO FRAMING ELEVATIONS)
WB3	100 x 100 x 6 EA	WALL BRACING (REFER TO FRAMING ELEVATIONS)
BR1	90 x 90 x 6 EA	HORIZONTAL BRACING
BR2	90 x 90 x 8 EA	HORIZONTAL BRACING
KB1	101.6 x 3.2 CHS	KNEE BRACE
P1	Z20015	PURLINS AT 1200 MAX. CTS. 1 ROW OF BRIDGING MINIMUM. LAP 1200.
P2	Z15015	PURLINS AT 1200 MAX. CTS. 1 ROW OF BRIDGING MINIMUM. LAP 1200.
P3	Z20015	PURLINS AT 900 MAX. CTS. 1 ROW OF BRIDGING MINIMUM. LAP 1200.
G1	C20015	GIRTS AT 1000 MAX. CTS. 1 ROW OF BRIDGING MINIMUM.
TR1	100 x 100 x 4.0 SHS	FULLY WELDED FRAME
FB	FLY BRACE	AT THIRD POINTS. REFER TYPICAL DETAIL ON DRAWING PW-02-DD-S-DR-3510.

LEGEND

REFER TO DRAWING PW-02-DD-S-DR-0002 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-S-DR-3000 FOR STEELWORK ELEVATIONS
REFER TO DRAWING PW-02-DD-S-DR-3530 FOR TYPICAL CONCRETE DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3540 FOR TYPICAL STEELWORK DETAILS
REFER TO DRAWING PW-02-DD-S-DR-3550 FOR MASONRY DETAILS

SP DENOTES SPICE JOINT. REFER TO DETAIL ON DRAWING PW-02-DD-S-DR-3540.

PURLIN NOTES

- UNLESS NOTED OTHERWISE ALL PURLINS SHALL BE LAPPED AS FOLLOWS:
SPAN
≤ 6000 900
> 6000 ≤ 8000 1200
> 8000 ≤ 12000 1500
> 12000 1800
- PURLINS, GIRTS AND BRIDGING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.
- UNLESS NOTED OTHERWISE PROVIDE PURLIN / GIRT BRIDGING AS FOLLOWS:

PURLIN SIZE	MAXIMUM PURLIN SPAN		
	0 BRIDGES	1 BRIDGES	2 BRIDGES
100	2000	4000 (3000)	6000 (5000)
150	3000	6000 (5000)	9000 (7000)
200	4000	8000 (7000)	12000 (9000)
250	5000	10000 (8000)	15000 (12000)

NOTE: FIGURES IN BRACKETS APPLY TO SIMPLY SUPPORTED PURLINS.

- NOTES:
- PARAPET RESTRAINT STEELWORK NOT SHOWN ON PLAN FOR CLARITY. REFER TO DRAWING PW-02-DD-S-DR-3540 FOR DETAILS.
 - ROOF PURLINS AND WALL GIRTS TO BE ROLL FORMED FROM HOT-DIP ZINC COATED HIGH STRENGTH BHP STEEL STRIP CONFORMING TO AS 1397. G450/G500/G550 GRADE. ROOF AND WALL BRACING SYSTEM ARE TO BE IN ACCORDANCE WITH PURLIN AND GIRT MANUFACTURERS SPECIFICATIONS (STRAMIT). PROVIDE 75 x 75 x 5 EA TRIMMING SUPPORT TO ENDS OF ALL UNSUPPORTED SHEETING.
 - ALL BRACE MEMBERS SHALL BE TIED TO EVERY SECOND PURLIN CROSSED WITH UNISTRUT STRAP TO PREVENT SAG.
 - PRECAMBER TO ALL STRUCTURAL STEEL RAFTERS, TRUSSES AND PORTALS SHALL BE 5mm FOR EVERY 2000mm OF SPAN UNLESS NOTED OTHERWISE ON PLAN. (REFER LEGEND FOR DESIGNATION)
 - UNLESS NOTED OTHERWISE ALL EXTERNAL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANISED.
 - PROVIDE FIRE PROTECTION TO ALL STRUCTURAL STEEL ELEMENTS AS REQUIRED. (REFER ARCHITECTS DRAWING FOR FIRE RATING REQUIREMENTS)
 - UNLESS NOTED OTHERWISE FLYBRACE AT EVERY 3RD PURLIN.

UNLESS OTHERWISE NOTED:
ALL PLATES: 12 THICK (GR250)
ALL BOLTS: M20 8.8S
ALL SHOP WELDS: 6CFW/SP
ALL SITE WELDS: 8CFW/SP
ALL BEAM CONNECTIONS: MIN 2 BOLTS OR AS SHOWN ON SECTION/DETAIL

SCALE 1:1 @ A1
10 0 10 20 30 40 50
mm

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REV DESCRIPTION
A TENDER ISSUE
B 50% DD ISSUE
C 60% DD ISSUE
D 100% DD ISSUE

APPRO
DATE
24/11/17
23/11/18
07/12/18
06/12/19

DRAWING STATUS
PRELIMINARY

ENGINEER

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PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

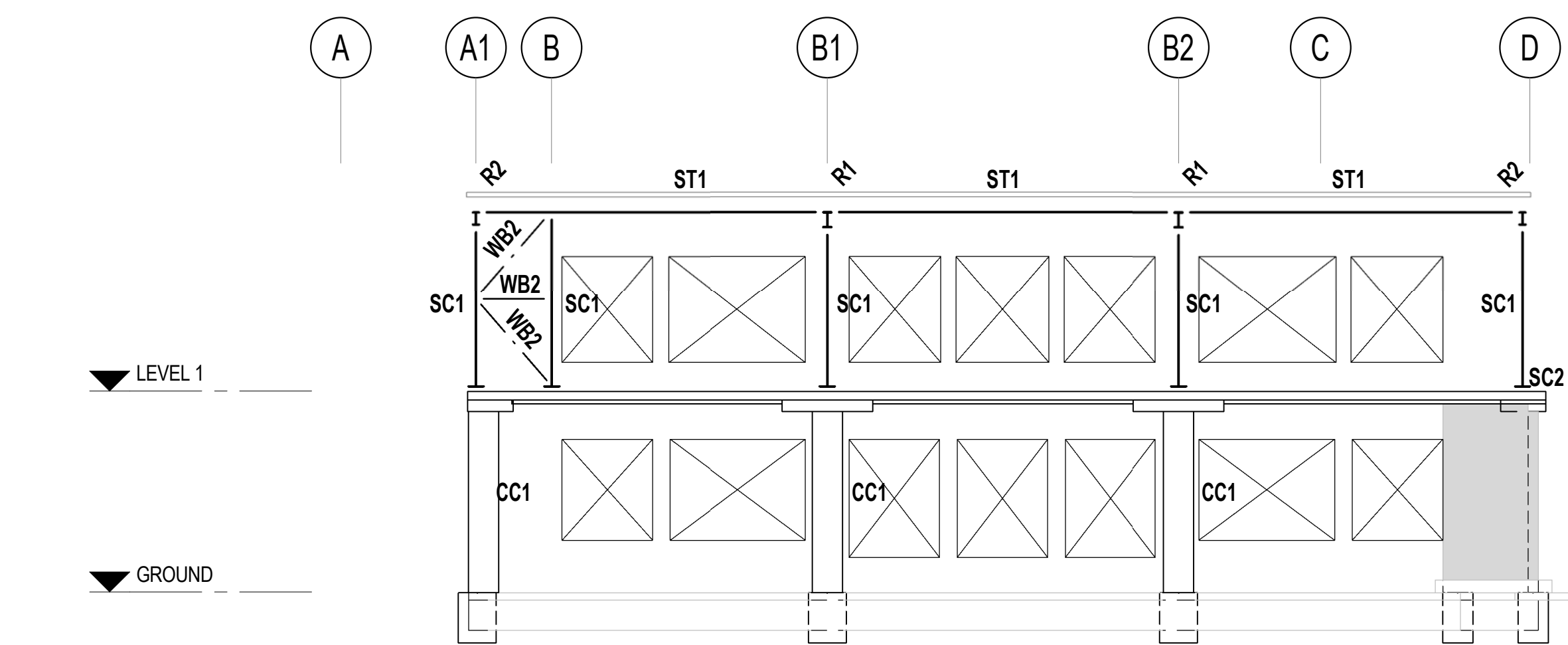
**ROOF FRAMING PLAN
SHEET 2**

A1 SCALE

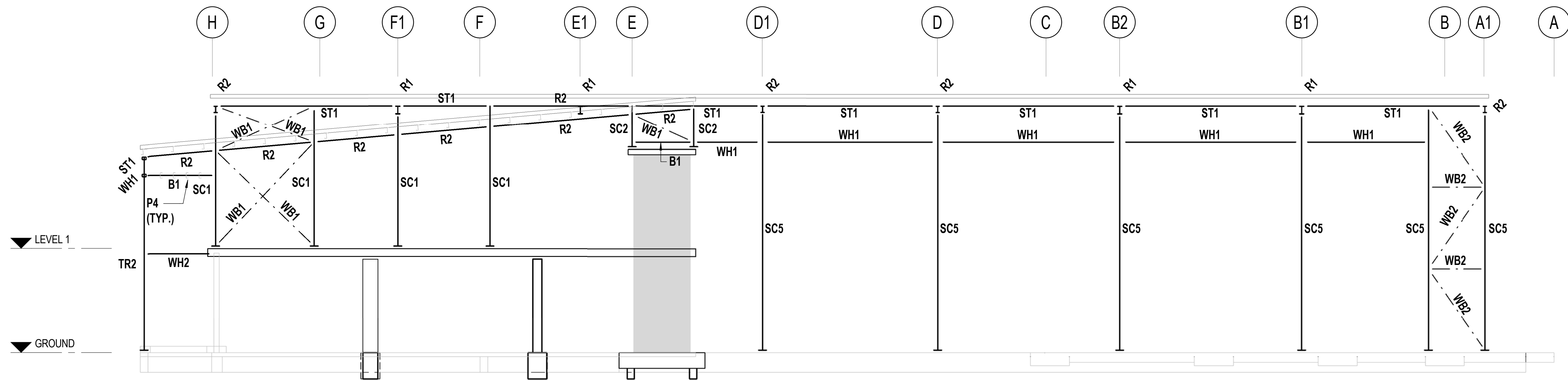
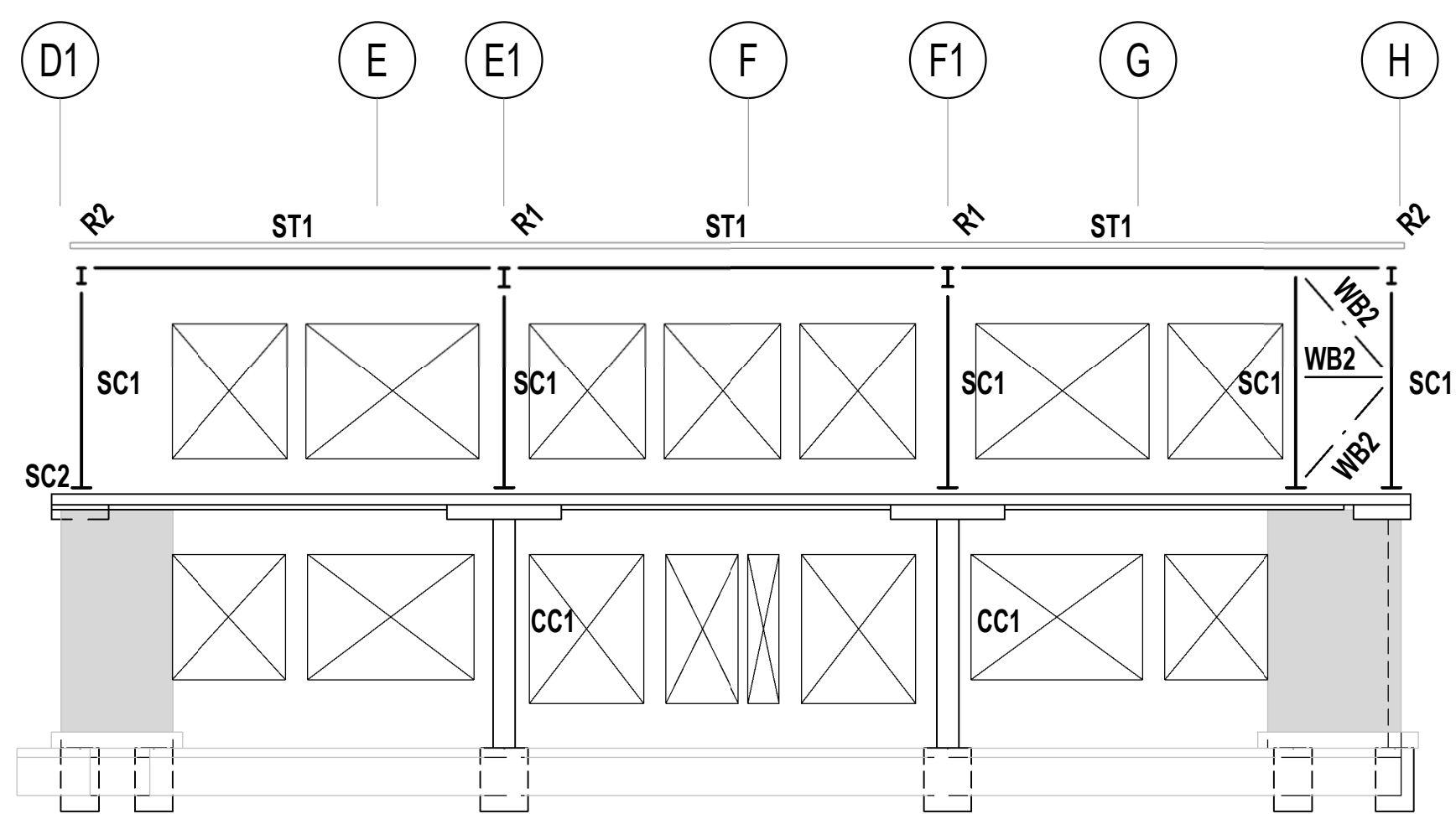
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06/12/19

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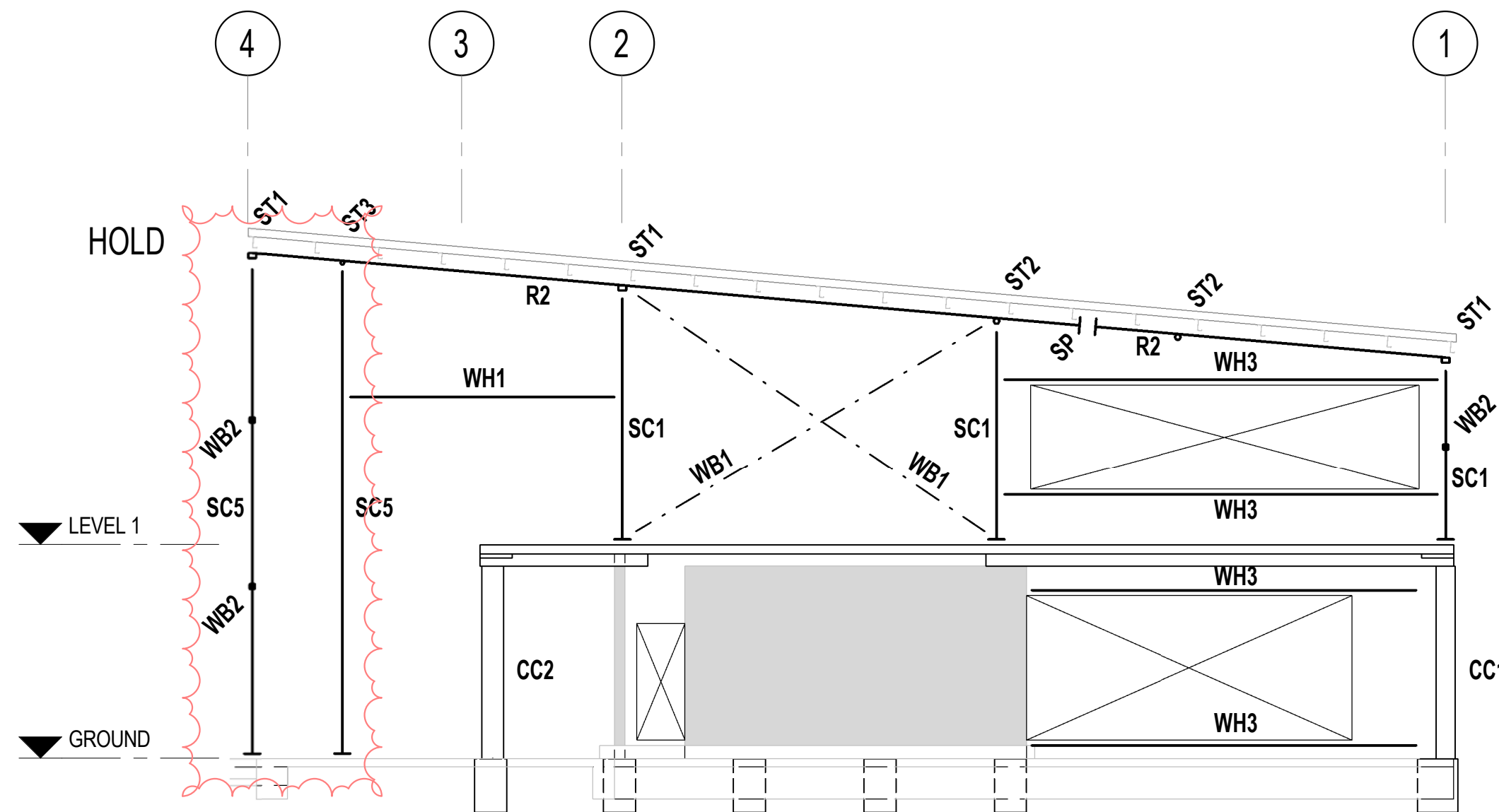


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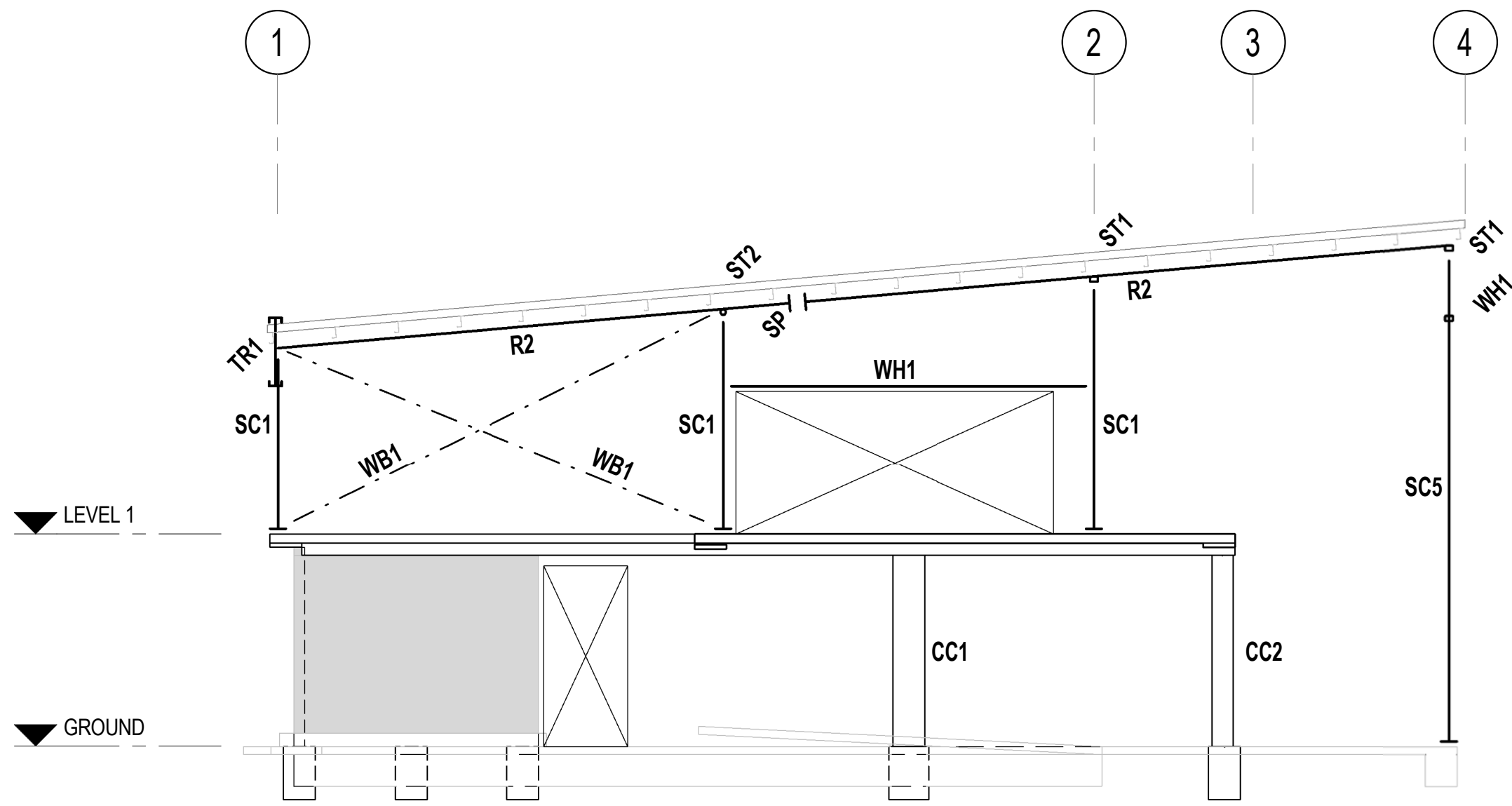


SECTION 2
SCALE 1: 100 2130

NOTE:
P4 - C20015 PURLINS AT 600 MAX. CTS. WITH 2 ROWS OF BRIDGING.



SECTION 3
SCALE 1: 100 2131



SECTION 4
SCALE 1: 100 2131

LEGEND

REFER TO DRAWING PW-01-SD-S-DR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-01-SD-S-DR-2120, 2121 FOR LEVEL 1 GA PLAN
REFER TO DRAWING PW-01-SD-S-DR-2130, 2131 FOR ROOF FRAMING PLAN
REFER TO DRAWING PW-01-SD-S-DR-2130 FOR STEELWORK MEMBER SCHEDULE
REFER TO DRAWING PW-01-SD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS

NOTES:
ASSUME ALL EXTERNAL WALLS/FACADES FOR THE MAIN BUILDING TO BE
FRAMED USING LIGHT-GUAGE STEELWORK SUCH AS RONDO SYSTEM.
WINDOW/DOOR OPENINGS LESS THAN 3.5m WIDE CAN BE FRAMED USING RONDO
SYSTEM SO NO STRUCTURAL STEEL HEAD/SILL BEAMS ARE REQUIRED.

10 0 10 20 30 40 50
SCALE 1:1 @ A1 mm
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REV DESCRIPTION DATE APPD
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PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

**STEEL FRAMING
ELEVATIONS
SHEET 1**

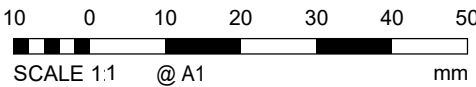
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**As
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PROCORE: REV:
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SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:

PW - 01 -DD - S - DR -3000 -B



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PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

**STEEL FRAMING
ELEVATIONS
SHEET 2**

A1 SCALE

**As
indicated**
DATE:

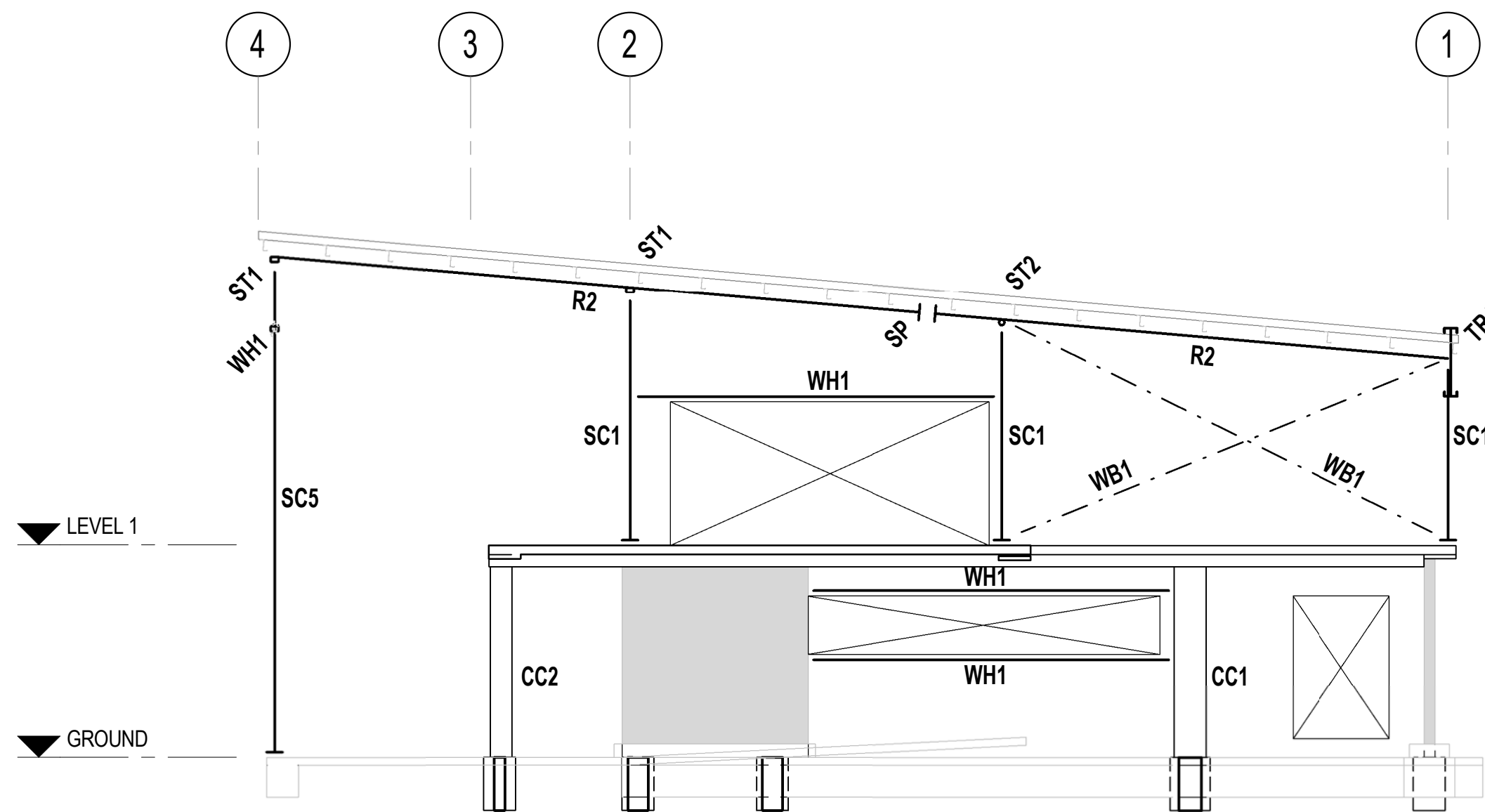
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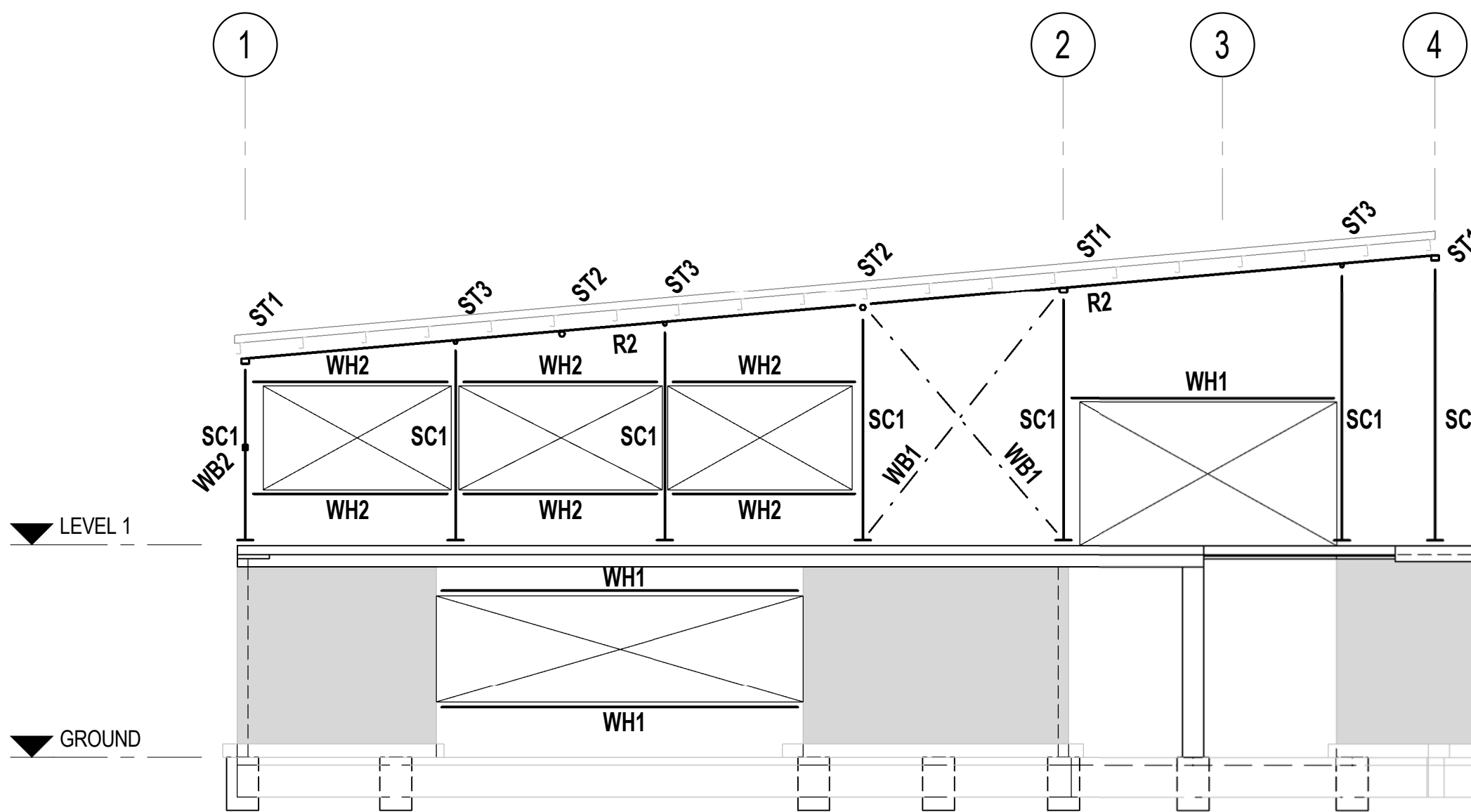
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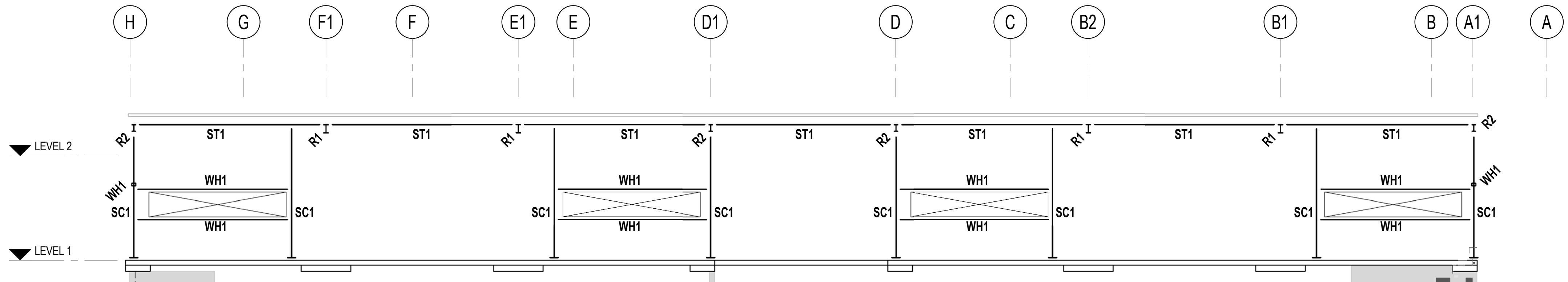
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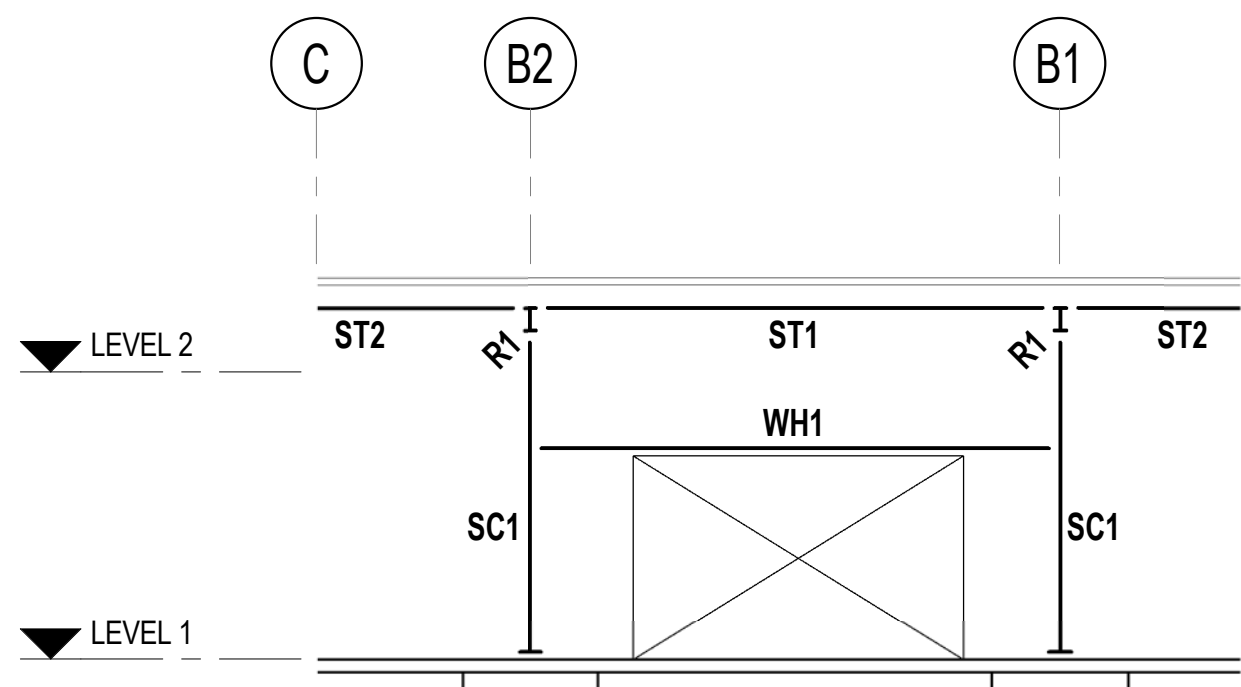
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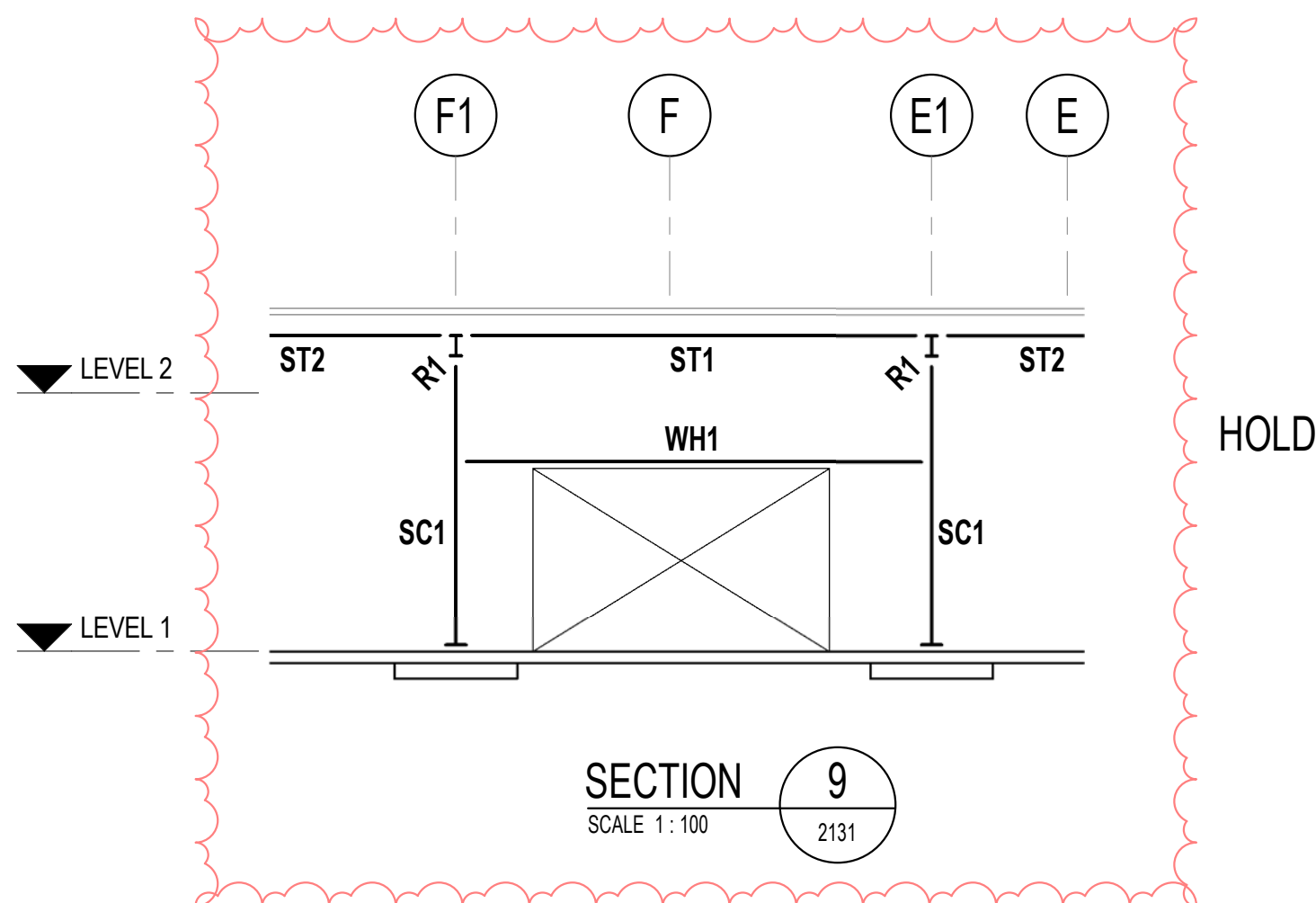
SECTION 6
SCALE 1:100
2131



SECTION 7
SCALE 1:100
2131



SECTION 8
SCALE 1:100
2131



SECTION 9
SCALE 1:100
2131

NOTES:
ASSUME ALL EXTERNAL WALLS/FACADES FOR THE MAIN BUILDING TO BE
FRAMED USING LIGHT-GUAGE STEELWORK SUCH AS RONDO SYSTEM.
WINDOW/DOOR OPENINGS LESS THAN 3.5m WIDE CAN BE FRAMED USING RONDO
SYSTEM SO NO STRUCTURAL STEEL HEAD/SILL BEAMS ARE REQUIRED.

LEGEND

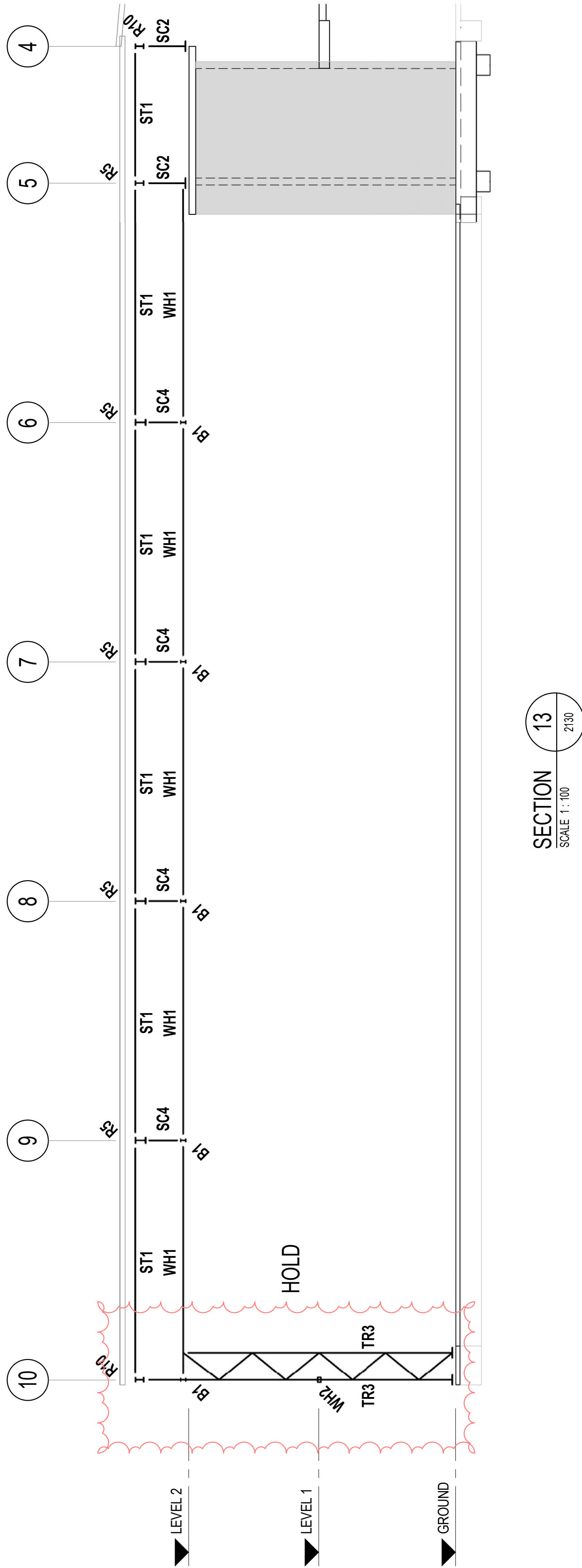
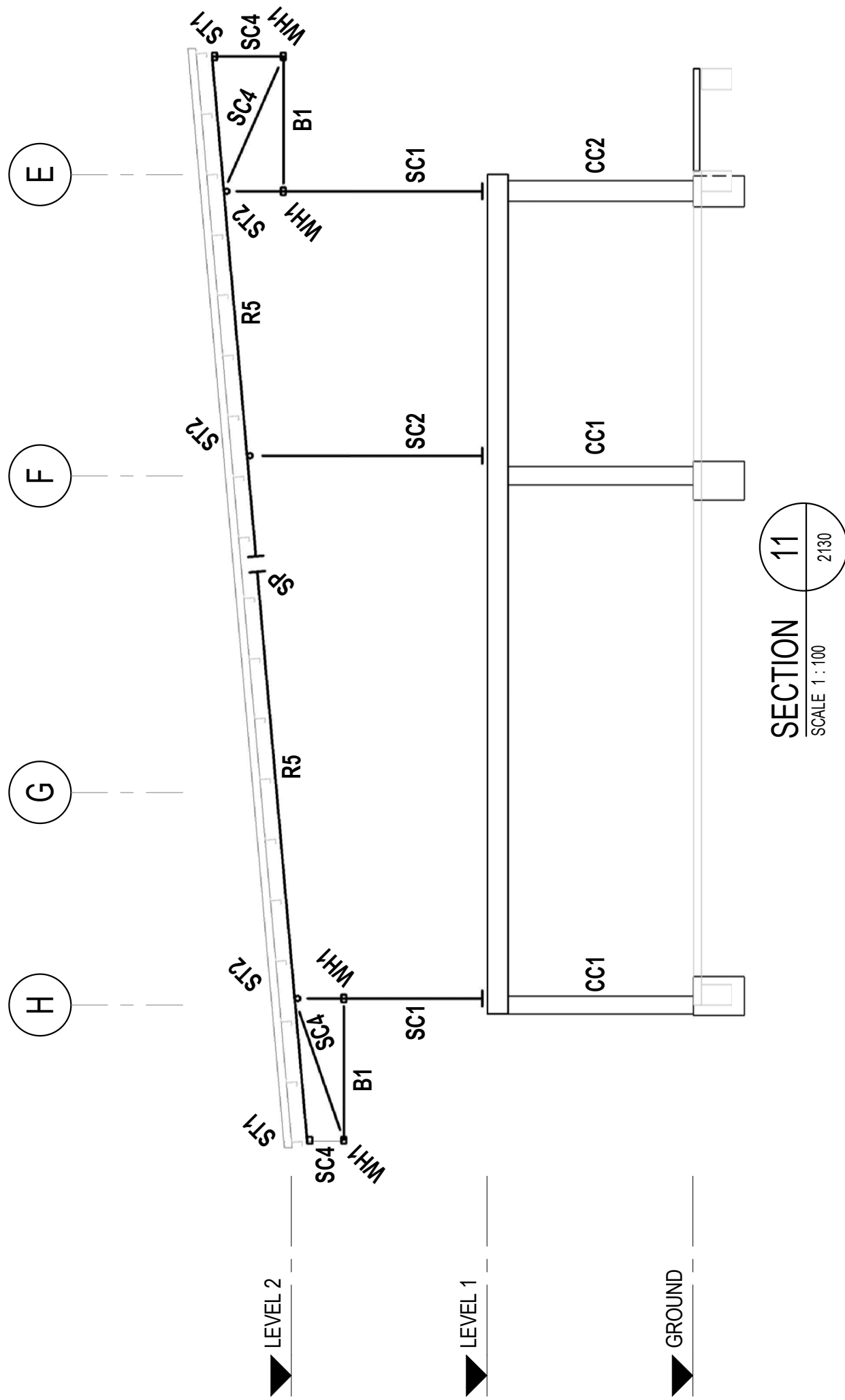
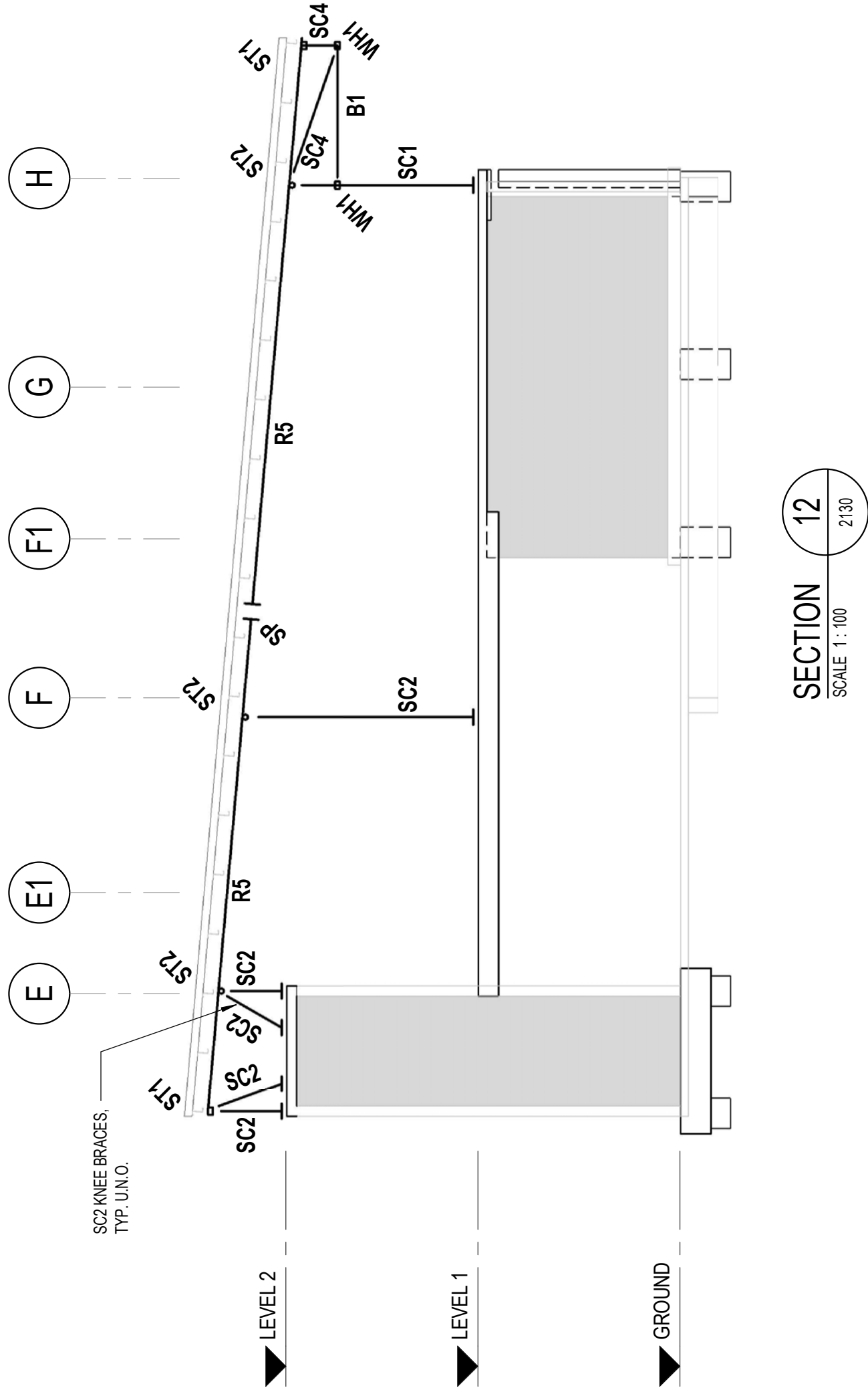
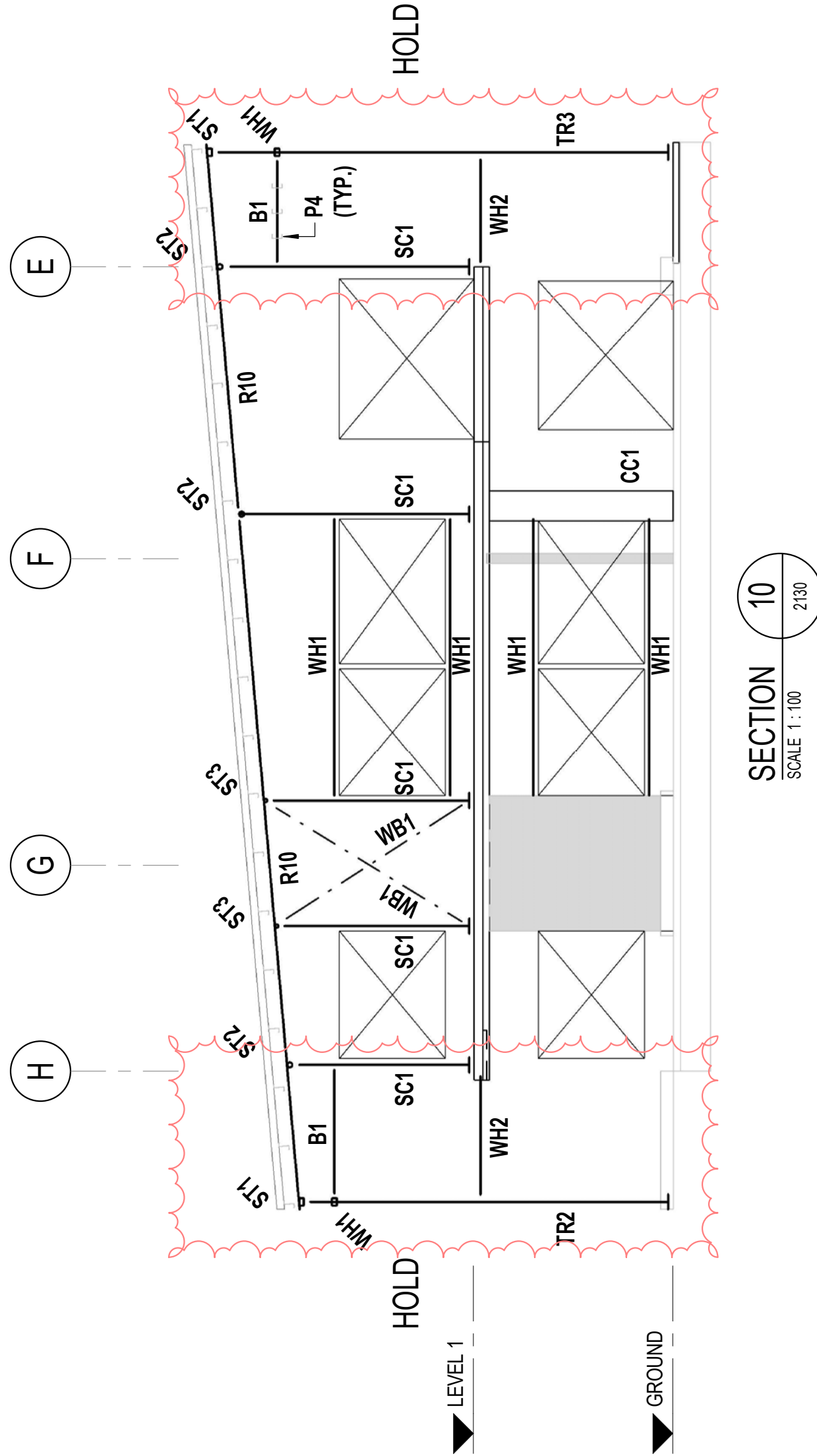
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REFER TO DRAWING PW-01-SD-S-DR-2120, 2121 FOR LEVEL 1 GA PLAN
REFER TO DRAWING PW-01-SD-S-DR-2130, 2131 FOR ROOF FRAMING PLAN
REFER TO DRAWING PW-01-SD-S-DR-2130 FOR STEELWORK MEMBER SCHEDULE
REFER TO DRAWING PW-01-SD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS



LEGEND

REFER TO DRAWING PW-01-SD-SR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-01-SD-SR-2120, 2121 FOR LEVEL, 1 GA PLAN
REFER TO DRAWING PW-01-SD-SR-2130, 2131 FOR ROOF FRAMING PLAN
REFER TO DRAWING PW-01-SD-SR-2130 FOR STEELWORK MEMBER SCHEDULE
REFER TO DRAWING PW-01-SD-SR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS

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WINDOW/DOOR OPENINGS LESS THAN 3.5m WIDE CAN BE FRAMED USING RONDO
SYSTEM SO NO STRUCTURAL STEEL HEAD/SILL BEAMS ARE REQUIRED



DRAWING STATUS

PRELIMINARY

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t +61 2 9222 9970 e projects@adamseng.com.au w www.adamseng.com.au

INTERNAL PROJECT No:
160623

ARCHITECT

**Conrad
Gargett**

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 **NSW**
GOVERNMENT

Education
School Infrastructure

PROJECT MANAGER

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)

PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

STEEL FRAMING ELEVATIONS SHEET 3

A1 SCALE

As

indicated

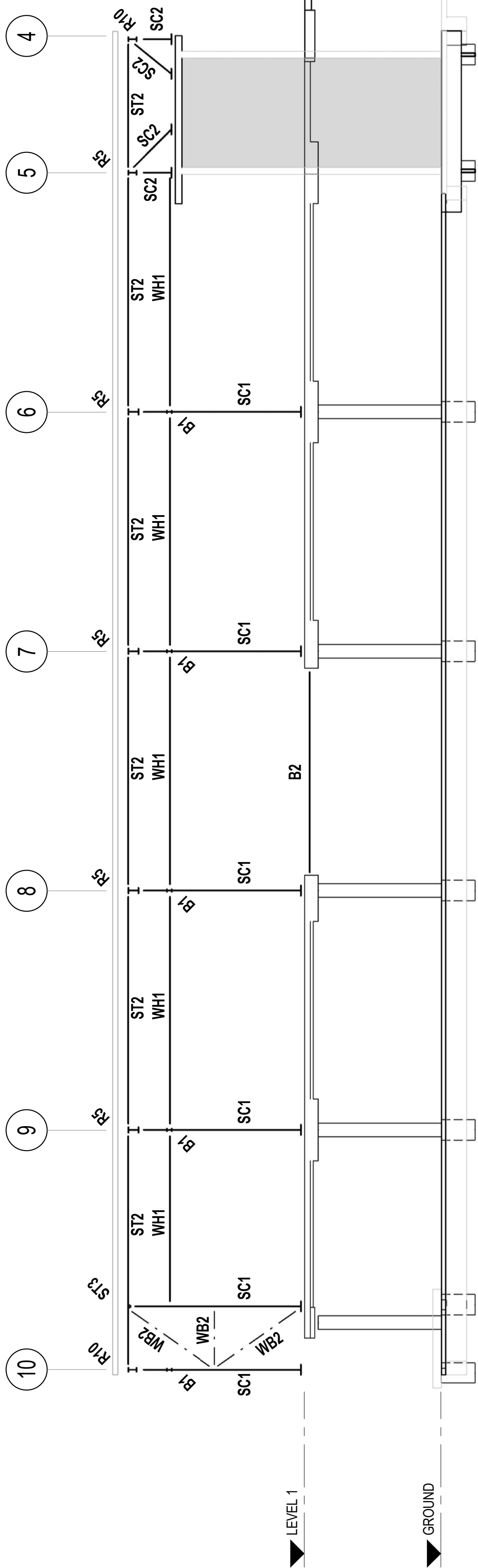
07/12/18

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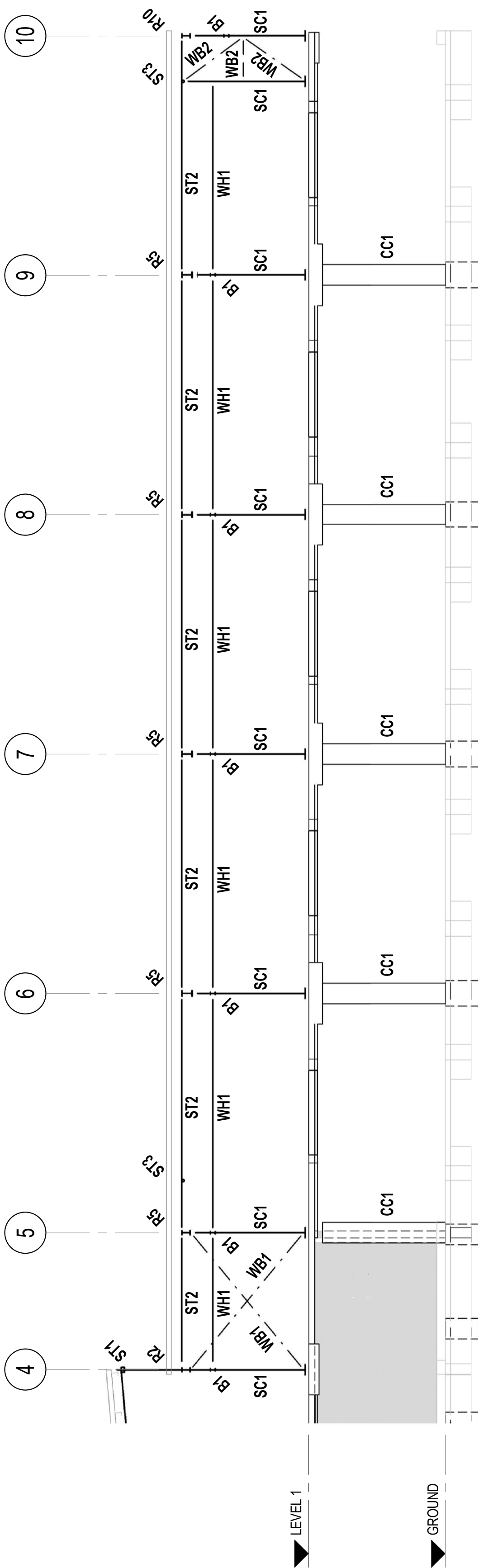
S3002 - B

SCHOOL ID	PAC ID	STAGE	DISCIPLINE	DOC TYPE	DRAWING No:	REV:
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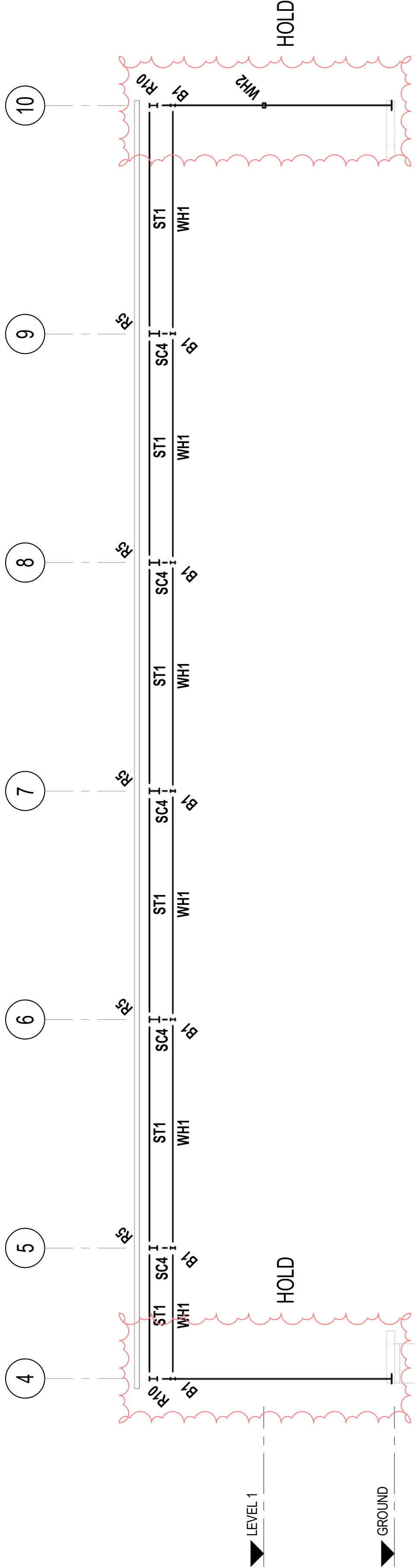
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SECTION 14
SCALE 1:100



SECTION 15
SCALE 1:100



SECTION 16
SCALE 1:100

LEGEND

REFER TO DRAWING PW-01-SD-S-DR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-01-SD-S-DR-2120, 2121 FOR LEVEL 1 GA PLAN
REFER TO DRAWING PW-01-SD-S-DR-2130, 2131 FOR ROOF FRAMING PLAN
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REFER TO DRAWING PW-01-SD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS

NOTES:
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WINDOW/DOOR OPENINGS LESS THAN 1.5m WIDE CAN BE FRAMED USING RONDO
SYSTEM. SONO STRUCTURAL STEEL HEADSILL BEAMS ARE REQUIRED.

10 0 10 20 30 40 50
SCALE 1:1 @ A1
mm
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mail@conradgargett.com.au
ABN 49 325 121 360
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PARRAMATTA REGIONAL COUNCIL LANDSCAPE CONSULTING PTY LTD
REV DESCRIPTION DATE
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2 DESIGN DEVELOPMENT 20/12/18
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8 DESIGN DEVELOPMENT 20/12/18
9 DESIGN DEVELOPMENT 20/12/18
10 DESIGN DEVELOPMENT 20/12/18

DRAWING STATUS
PRELIMINARY
ENGINEER

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INTERNAL PROJECT No:
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Gargett**

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PROJECT
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
**STEEL FRAMING
ELEVATIONS
SHEET 4**

A1 SCALE

As

indicated

DATE

07/12/18

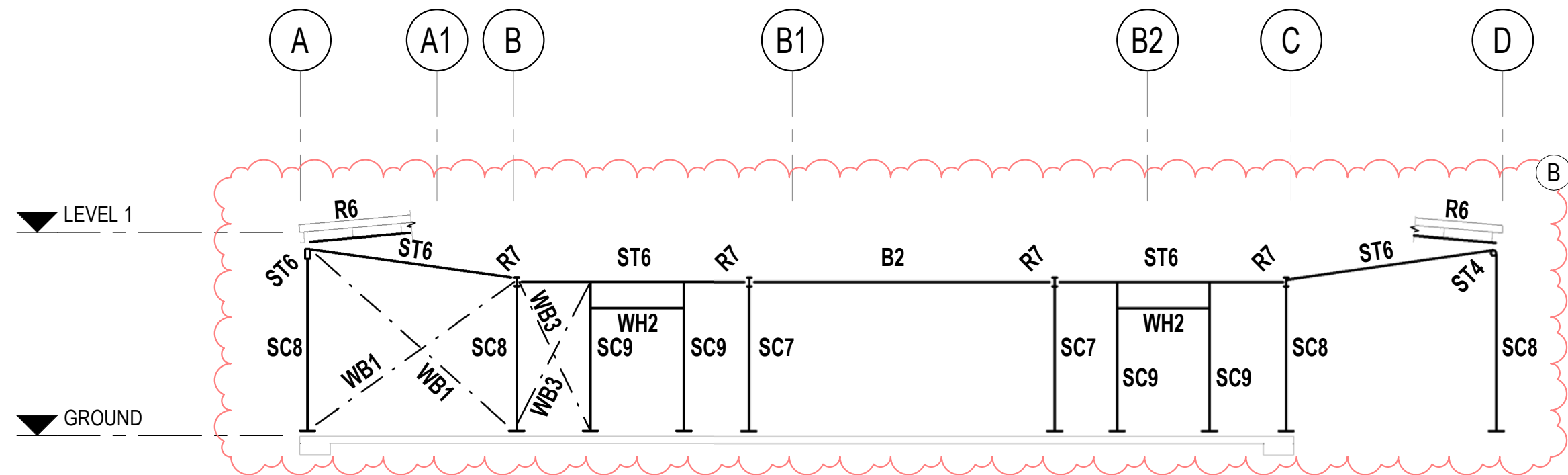
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REV

S3003 - B

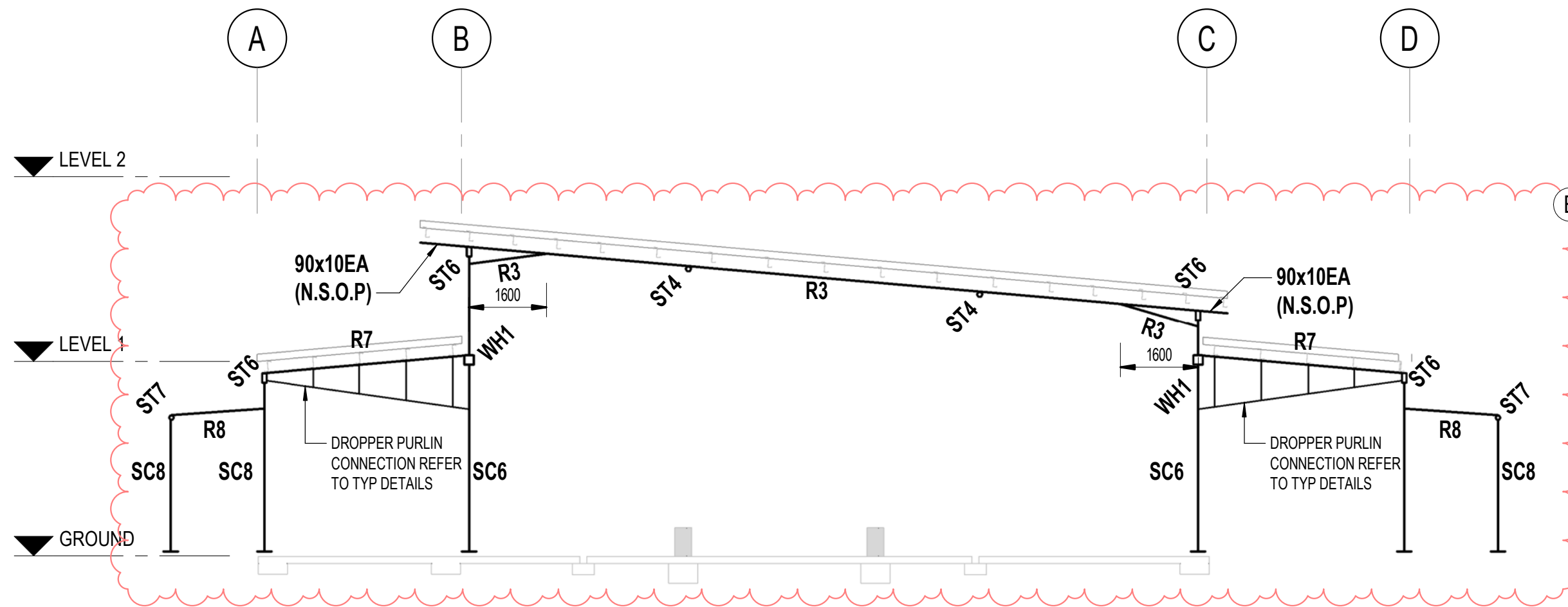
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PW - 01 - DD - S - DR - 3003 - B



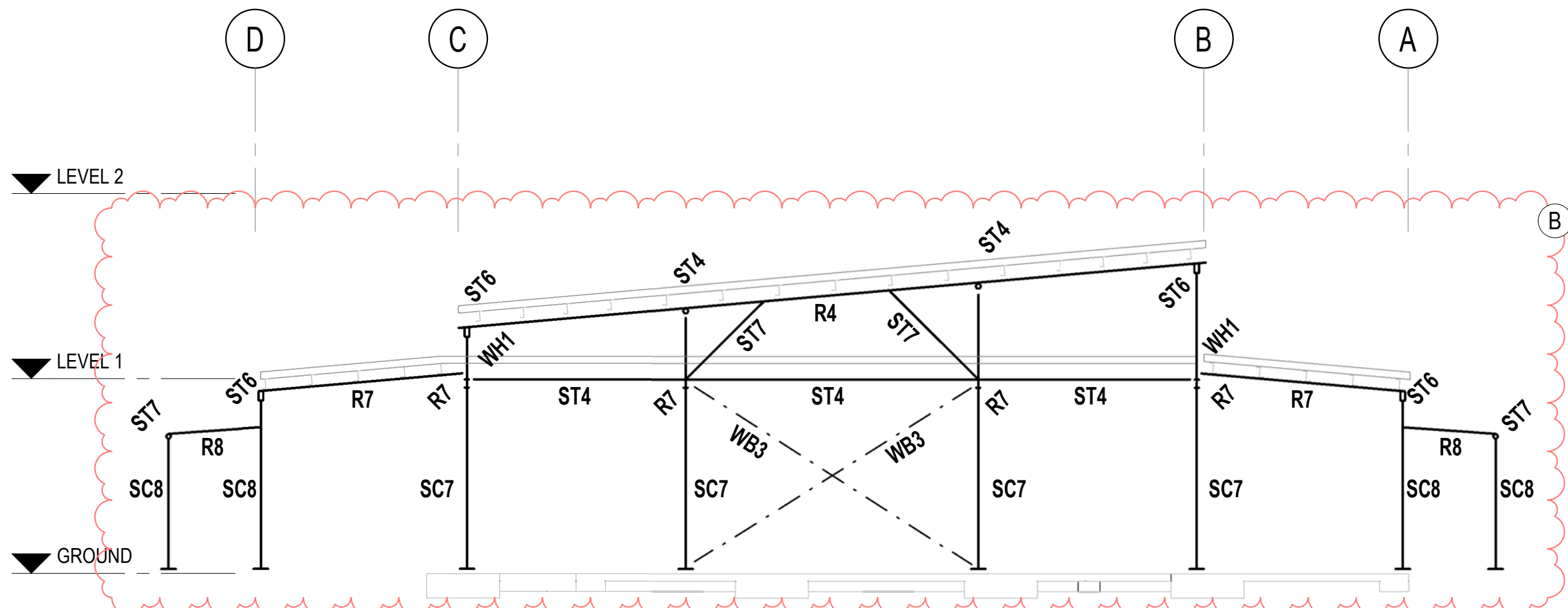
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NOTE:
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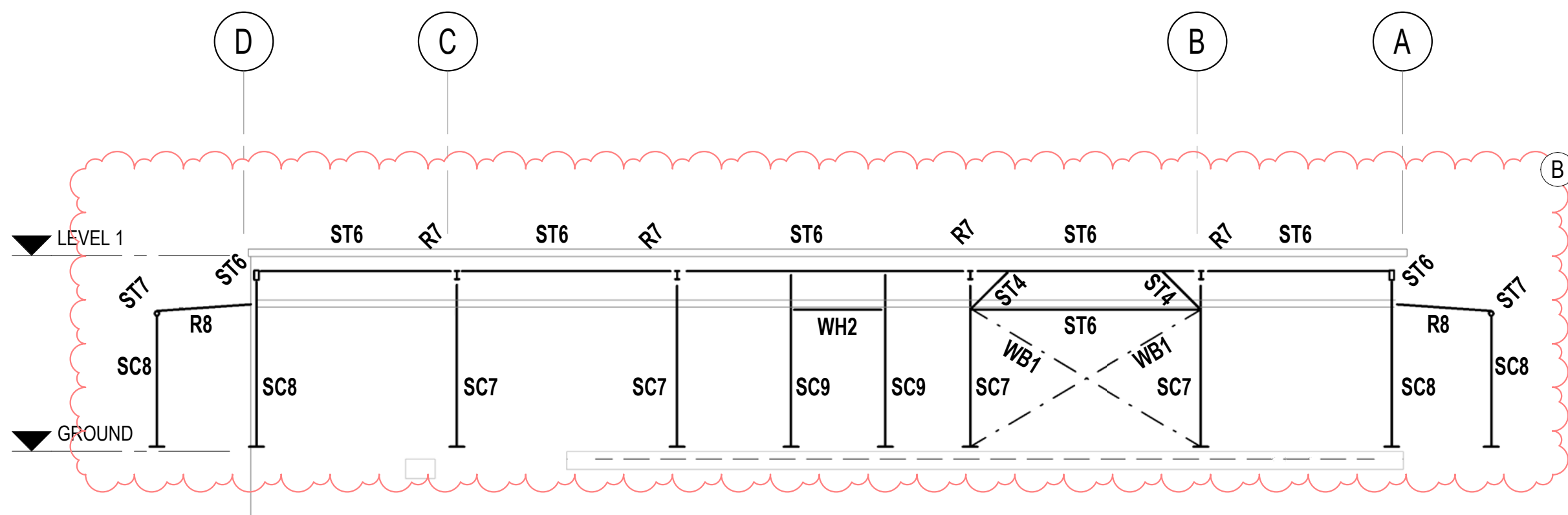
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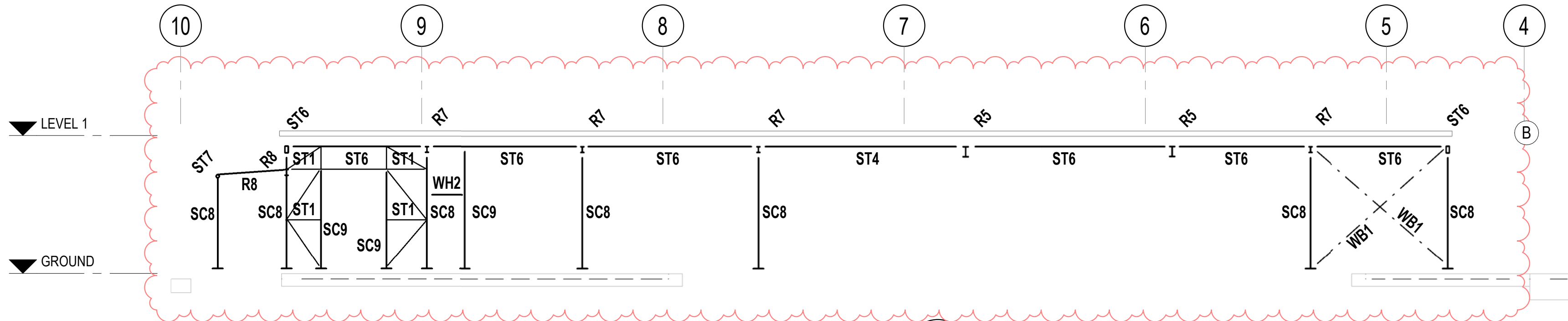
SECTION 19
SCALE 1:100

NOTE:
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SECTION 20
SCALE 1:100

NOTE:
FACADE STUD WALL DETAIL BY OTHERS NOT SHOWN FOR CLARITY.



SECTION 21
SCALE 1:100

NOTE:
FACADE STUD WALL DETAIL BY OTHERS NOT SHOWN FOR CLARITY.

LEGEND

REFER TO DRAWING PW-02-DD-S-DR-0002, 0003 FOR GENERAL NOTES
REFER TO DRAWING PW-02-DD-S-DR-2120, 2121 FOR LEVEL 1 GA PLAN
REFER TO DRAWING PW-02-DD-S-DR-2130, 2131 FOR ROOF FRAMING PLAN
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REFER TO DRAWING PW-02-DD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS

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SCALE 1:1 @ A1 mm						
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mail@conradgargett.com.au ABN 49 325 121 350						
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NOMINATED ARCHITECT: LAWRENCE TOLDO NSW Reg 10225						
REV	DESCRIPTION	DATE	APPD			
A	TENDER ISSUE	24/11/17				
B	100% DD ISSUE	06/12/19				

DRAWING STATUS
PRELIMINARY

ENGINEER

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Melbourne Sydney Geelong
Suite 1402, Level 14, 49 York Street Sydney NSW 2000
t +61 2 9222 9970 e projects@adamseng.com.au w www.adamseng.com.au

INTERNAL PROJECT No:
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ARCHITECT

**Conrad
Gargett**

CLIENT / APPLICANT

NSW Education
GOVERNMENT School Infrastructure

PROJECT MANAGER

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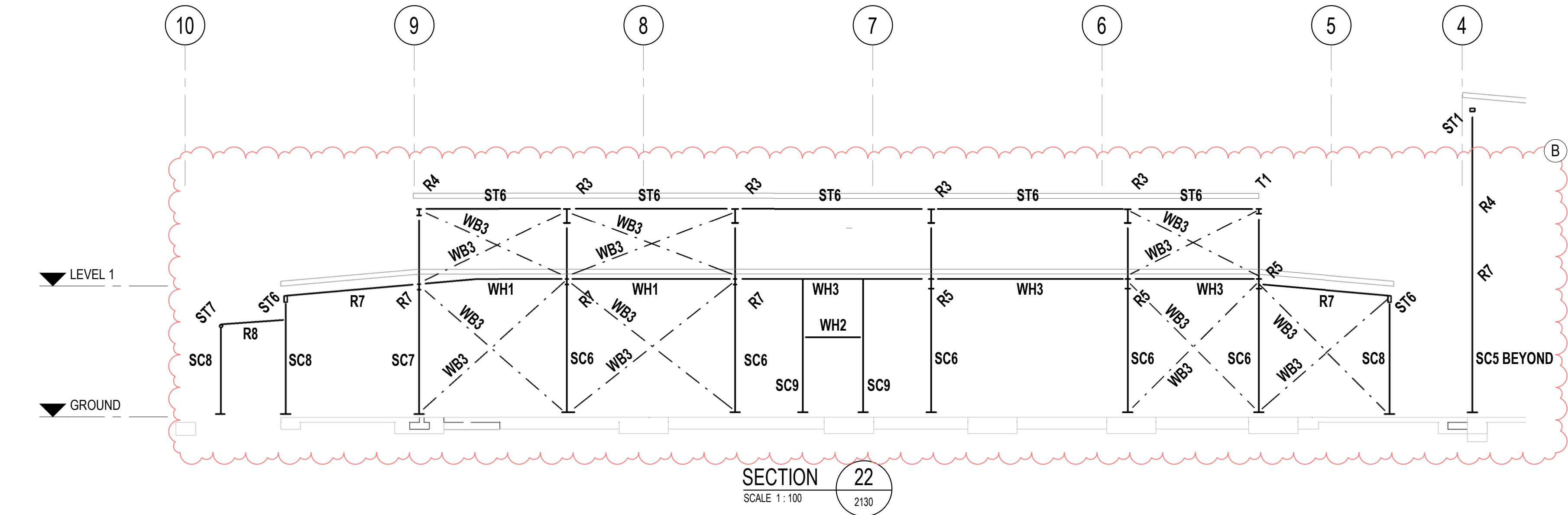
PROJECT
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
**STEEL FRAMING
ELEVATIONS
SHEET 5**

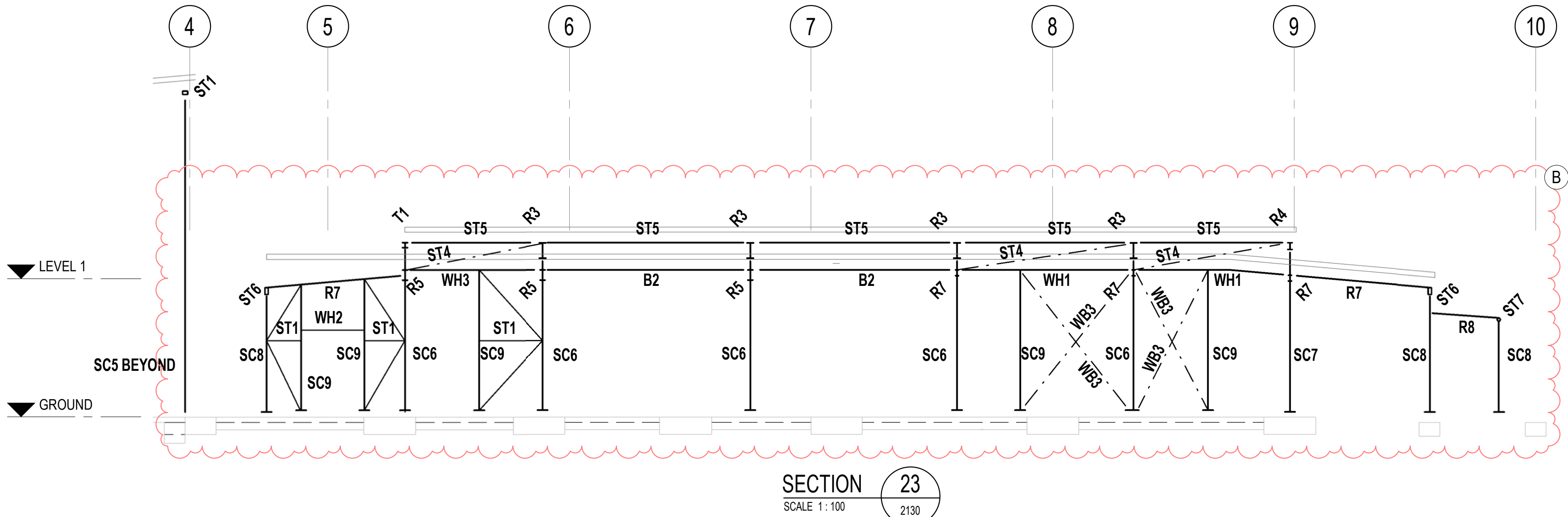
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DATE:
06/12/19
PROCORE: REV:
S3004 -B

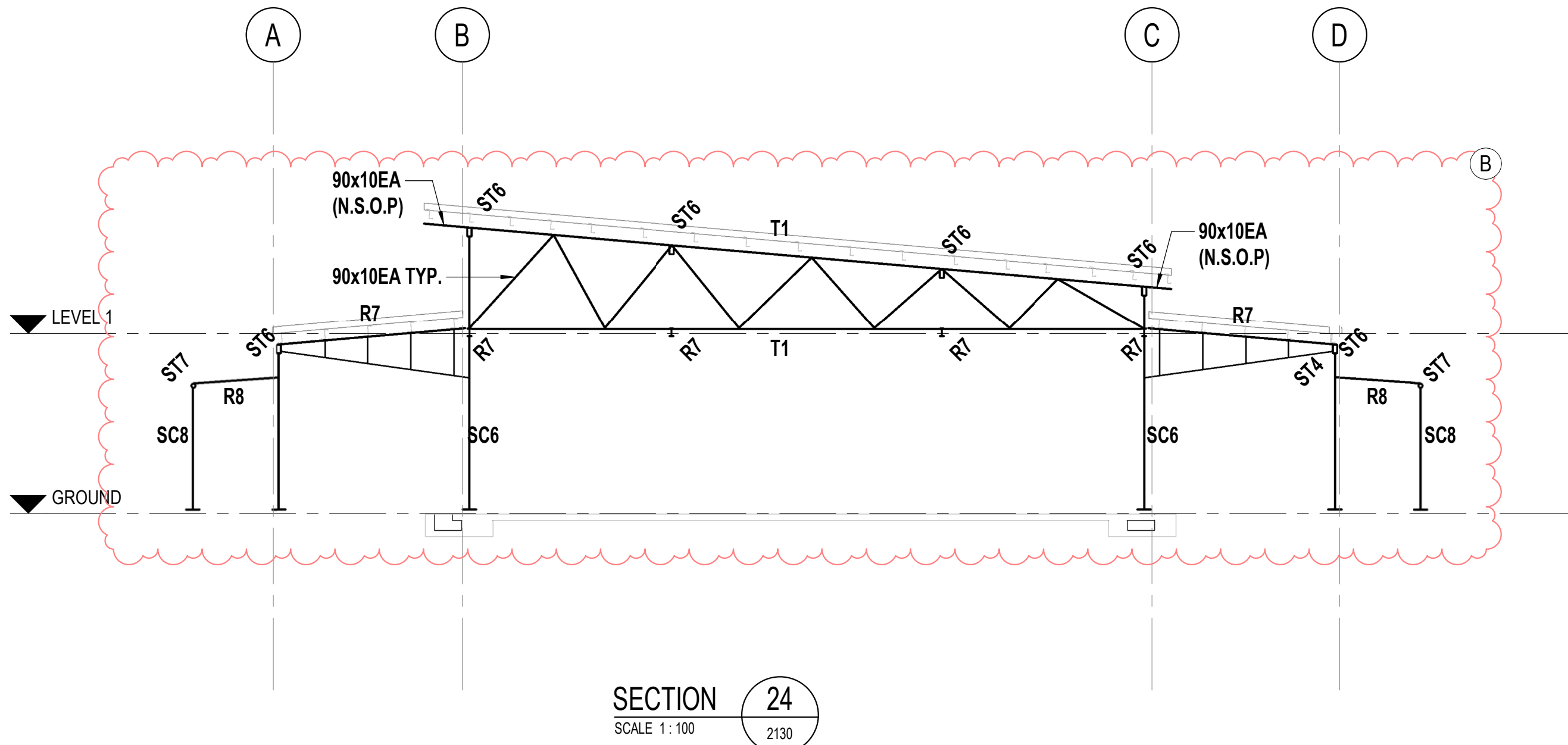
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PW - 02 -DD - S - DR -3004 -B



NOTE:
FACADE STUD WALL DETAIL BY OTHERS NOT SHOWN FOR CLARITY.



NOTE:
FACADE STUD WALL DETAIL BY OTHERS NOT SHOWN FOR CLARITY.



NOTE:
FACADE STUD WALL DETAIL BY OTHERS NOT SHOWN FOR CLARITY.

LEGEND
REFER TO DRAWING PW-02-DD-S-DR-0002, 0003 FOR GENERAL NOTES
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REFER TO DRAWING PW-02-DD-S-DR-3530, 3531, 3532 FOR TYPICAL STEELWORK DETAILS

100 0 10 20 30 40 50

SCALE 1:1 @ A1 mm

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NOMINATED ARCHITECT: LAWRENCE TOALDO NSW Reg. 10225

ABN 49 325 121 350

DATE 24/11/17

APPRO APPD

REV	DESCRIPTION	DATE	APPRO
A	TENDER ISSUE	24/11/17	
B	100% DD ISSUE	06/12/19	

DRAWING STATUS
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Melbourne Sydney Geelong

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INTERNAL PROJECT No:
160623

ARCHITECT
Conrad Gargett

CLIENT / APPLICANT

NSW GOVERNMENT

Education

School Infrastructure

PROJECT MANAGER

blueVisions

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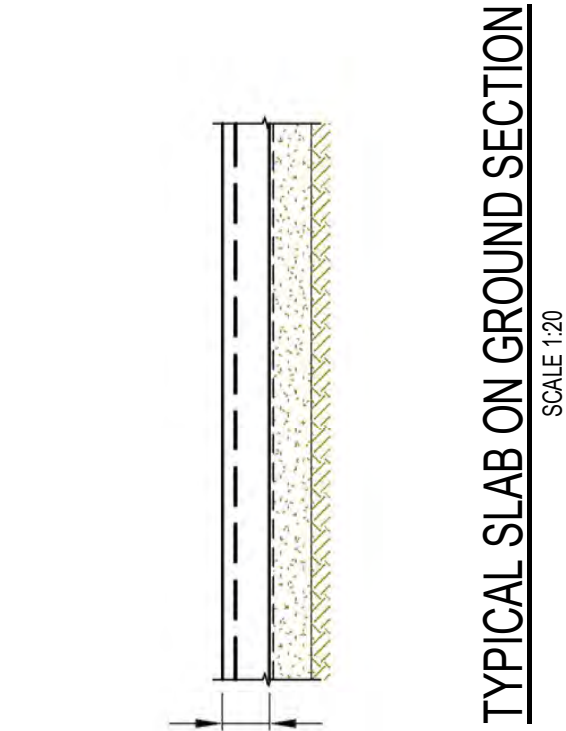
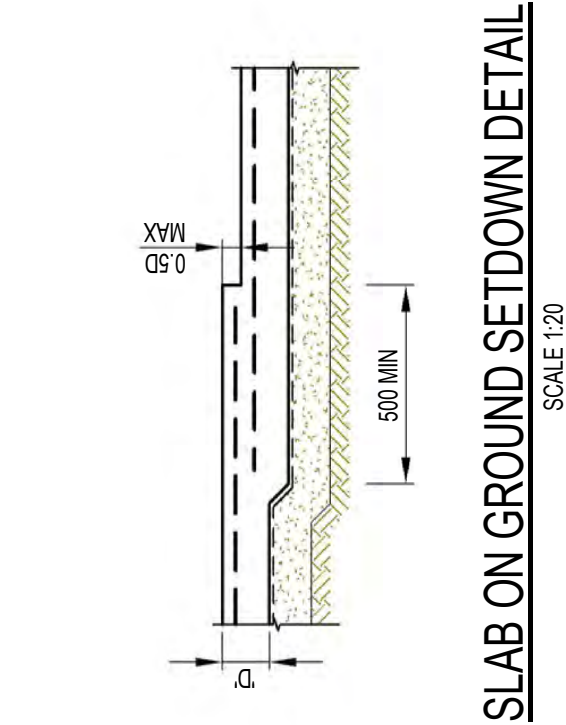
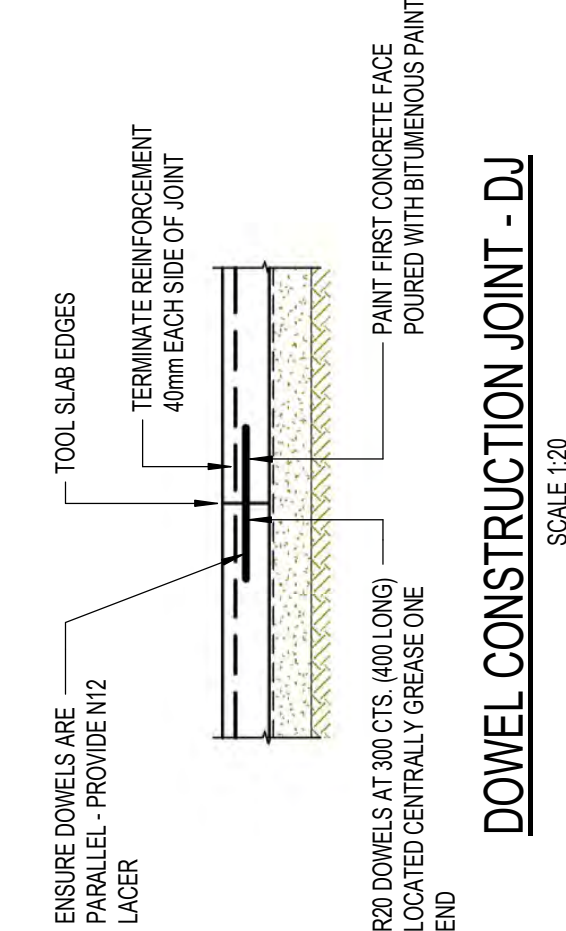
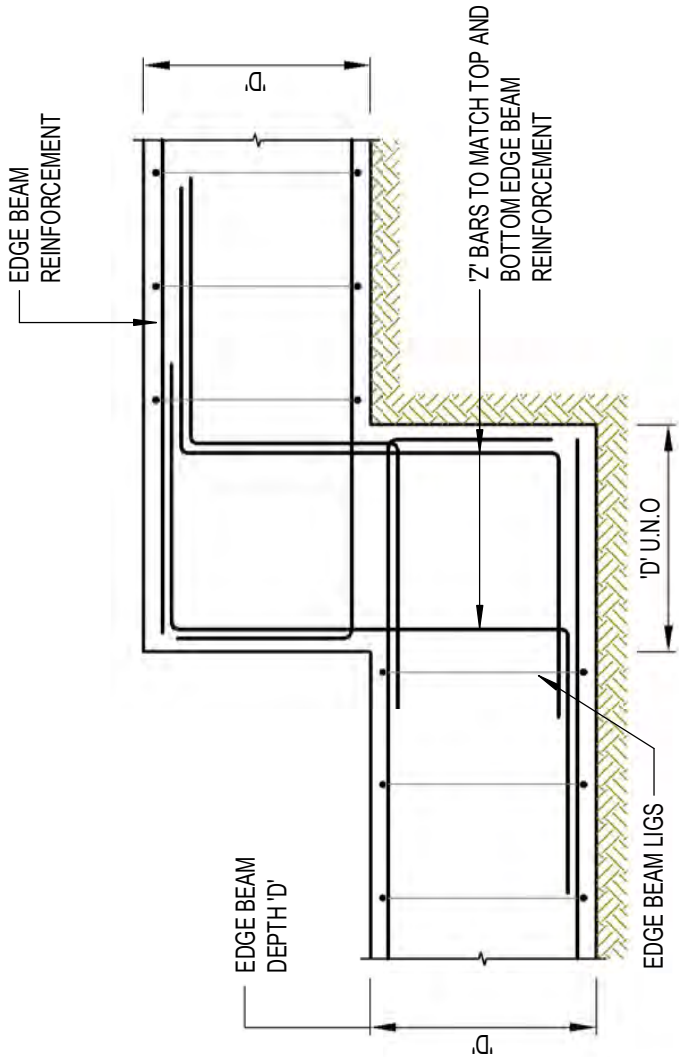
PROJECT
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
**STEEL FRAMING
ELEVATIONS
SHEET 6**

A1 SCALE
1 : 100

DATE:
06/12/19
PROCORE: REV:
S3005 -B

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:
PW - 02 -DD - S - DR -3005 -B

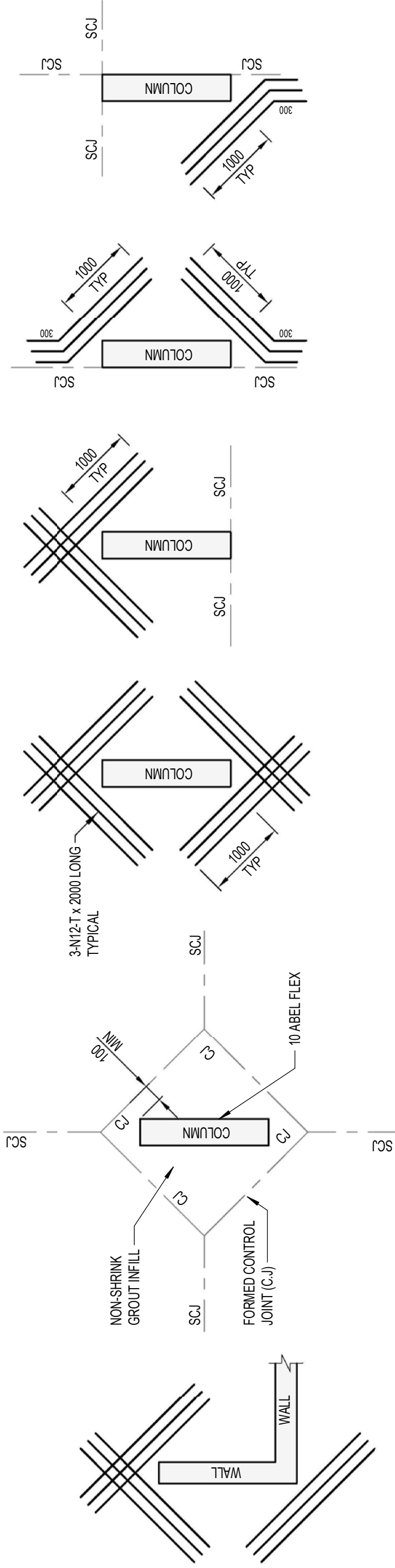


- NOTES:
1. REFER ARCHITECT'S DRAWINGS FOR SETDOWN LOCATIONS.
2. REFER PLANS FOR SLAB THICKNESS AND REINFORCEMENT.

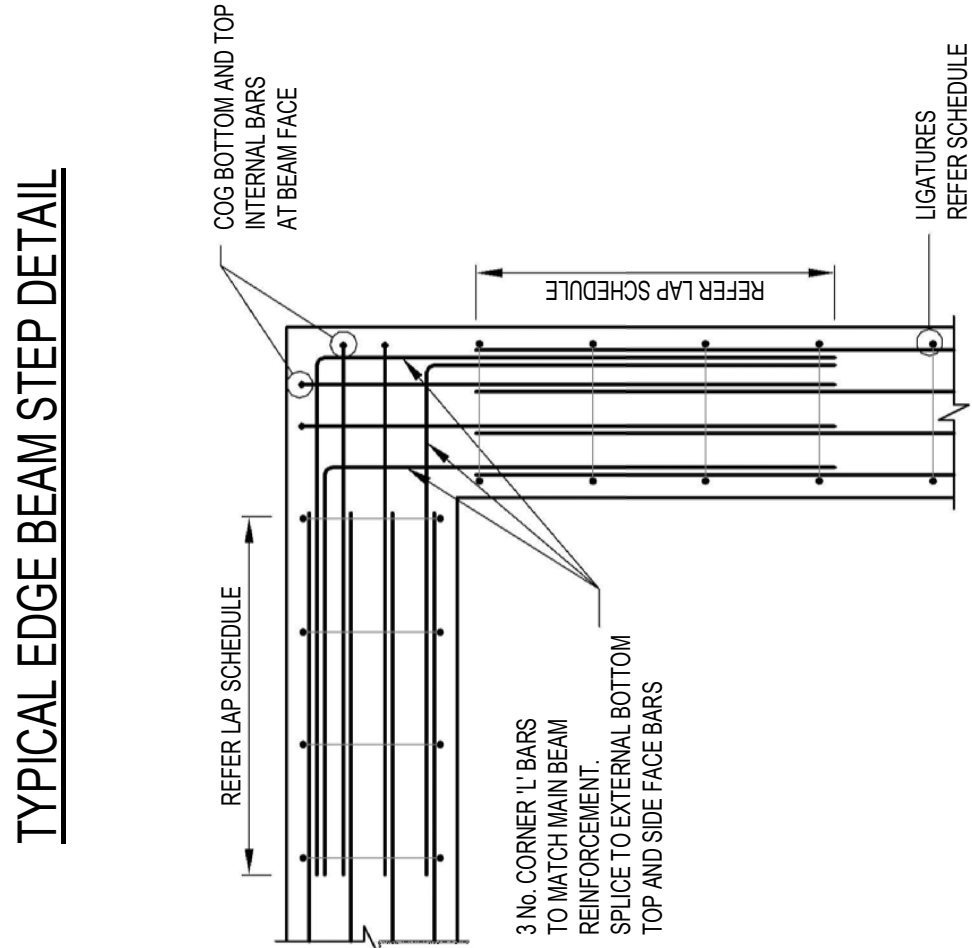
TYPICAL SLAB ON GROUND SECTION
SCALE 1:20

SLAB ON GROUND SETDOWN DETAIL
SCALE 1:20

DOWEL CONSTRUCTION JOINT - D1
SCALE 1:20

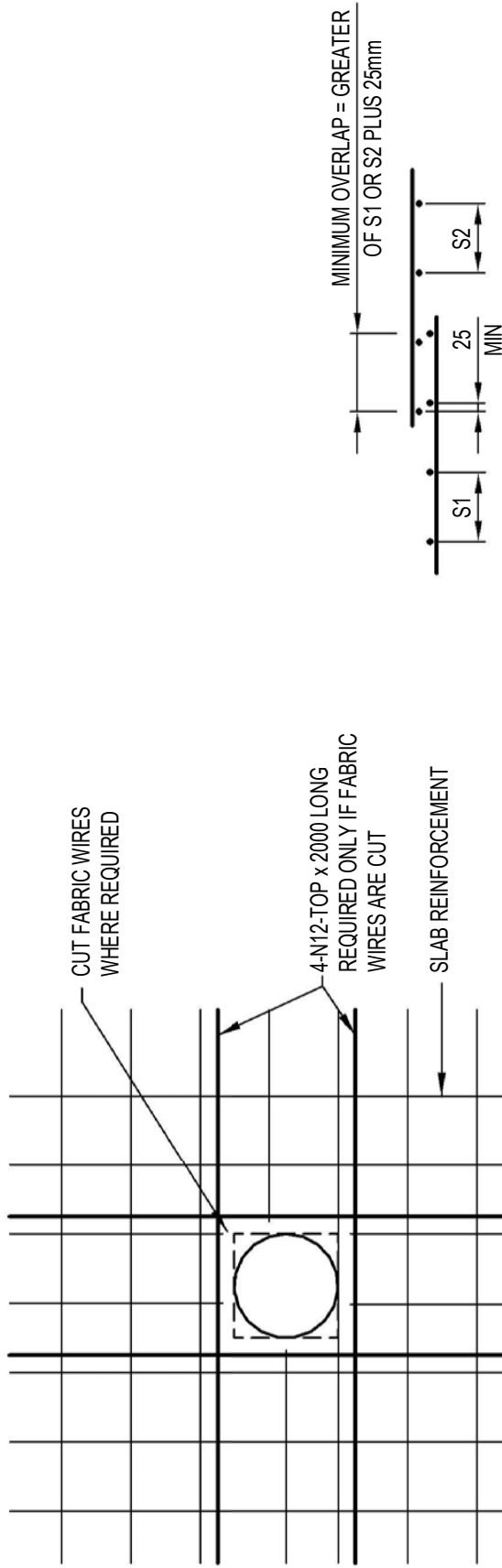


TYPICAL CONCRETE COLUMN-WALL BLOCKOUT DETAIL
SCALE 1:20



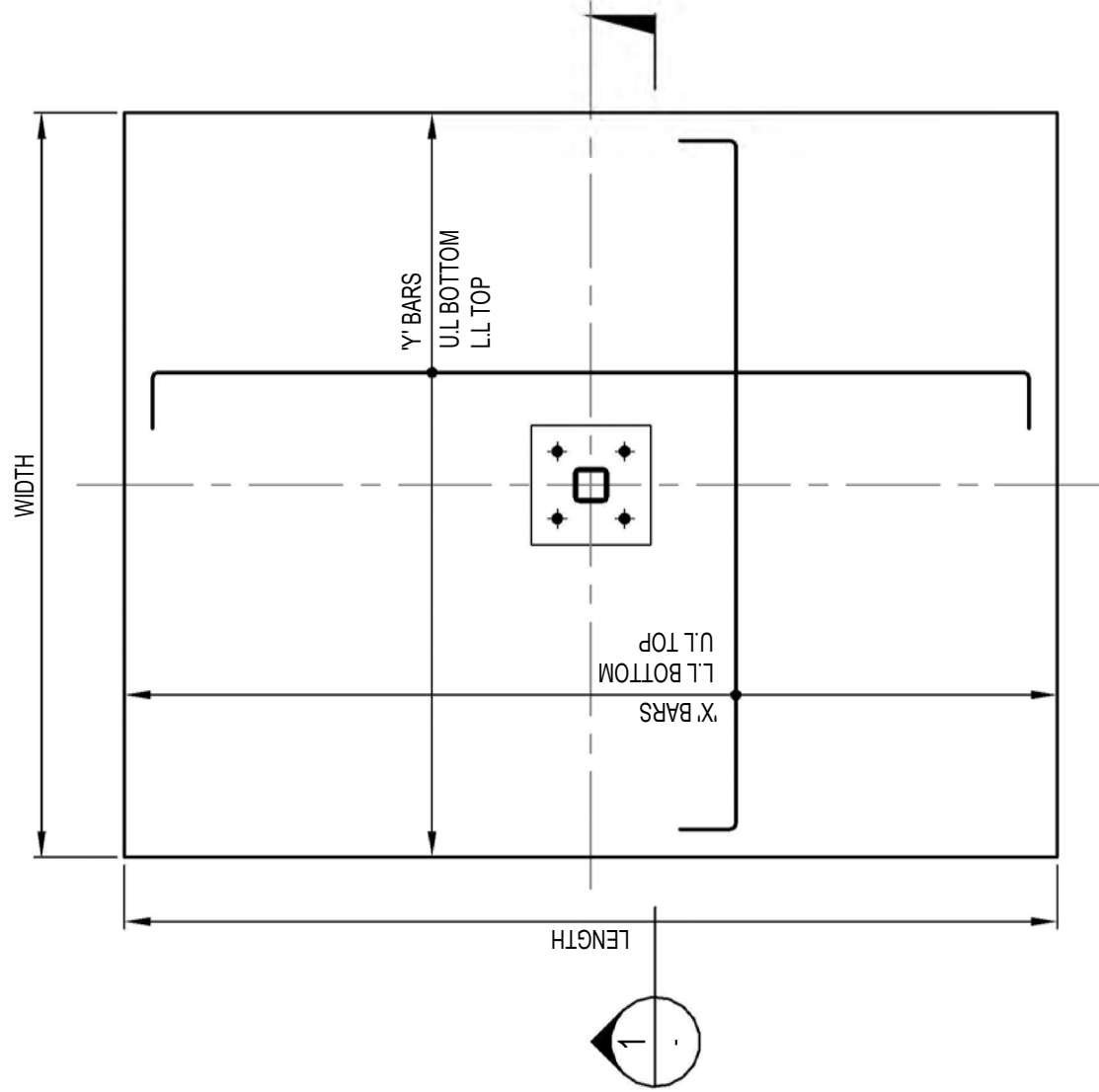
TYPICAL EDGE BEAM STEP DETAIL

EDGE BEAM CORNER REINFORCEMENT
DETAIL - PLAN VIEW



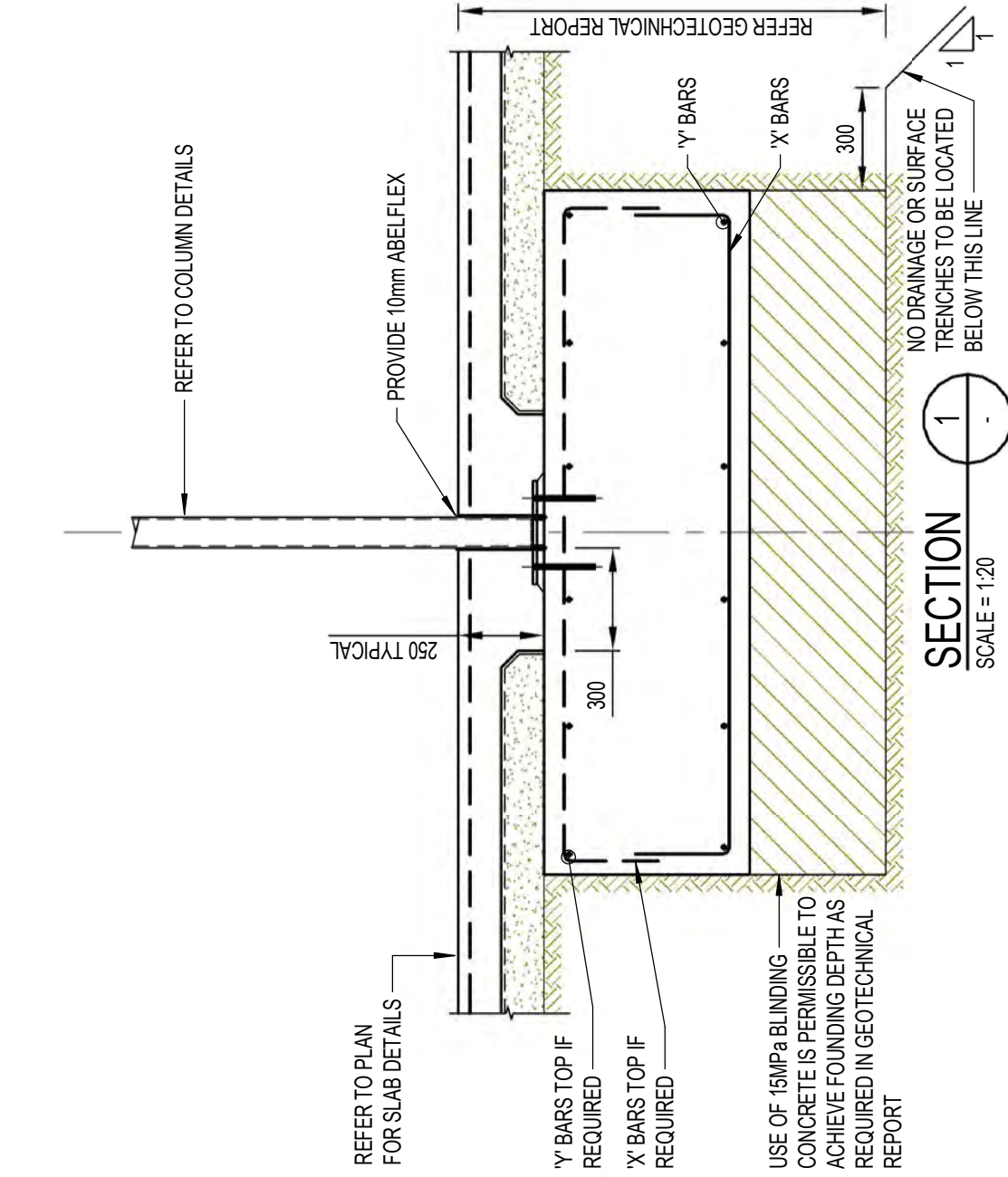
TYPICAL SLAB ON GROUND PENETRATION DETAIL
SCALE 1:20

TENSION LAP SPlice IN CONVENTIONAL
FABRIC DETAIL
SCALE 1:20



TYPICAL PAD FOOTING PLAN - STEEL COLUMN

BASE EXCAVATION SHALL BE GRADED / DRAINED TO SUMPS AND PUMPED AS REQUIRED TO MAINTAIN THE EXCAVATION FREE OF SURFACE WATER. INITIAL EXCAVATION MAY BE CARRIED OUT TO LEVELS ABOVE THOSE SHOWN ON THE DRAWINGS WITH THE FINAL PRIMING TO DESIGN LEVELS JUST PRIOR TO CASTING OF FOOTINGS.



TYPICAL PAD FOOTING DETAIL

NOTE:
REFER TO PAD FOOTING SCHEDULE FOR REINFORCEMENT AND DIMENSIONS.

A1 SCALE
1 : 20

DATE:
07/02/20

PROCEDURE:
S3500 -A

SCHOOL ID: PW - 02-DD - S - DR -3500 -A
PAC ID: PW - 02-DD - S - DR -3500 -A
STAGE: PW - 02-DD - S - DR -3500 -A
DISCIPLINE: PW - 02-DD - S - DR -3500 -A
DOCT TYPE: PW - 02-DD - S - DR -3500 -A
DRAWING No: PW - 02-DD - S - DR -3500 -A
REV: PW - 02-DD - S - DR -3500 -A

DRAWING STATUS
CONSTRUCTION
ENGINEER

Adams
DESIGNING THE FUTURE

INTERNAL PROJECT No:
160623

ARCHITECT

Conrad
Gargett

CLIENT / APPLICANT

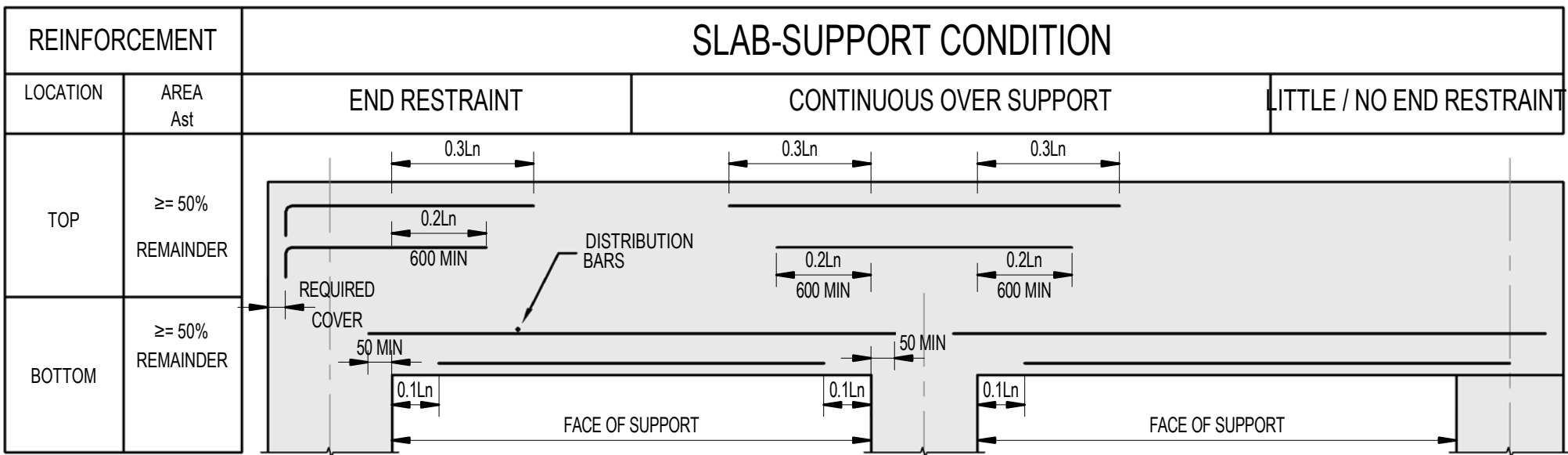
NSW GOVERNMENT
Education
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PROJECT MANAGER

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PROJECT
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
FOOTING AND SLAB
ON GROUND DETAILS
SHEET 1

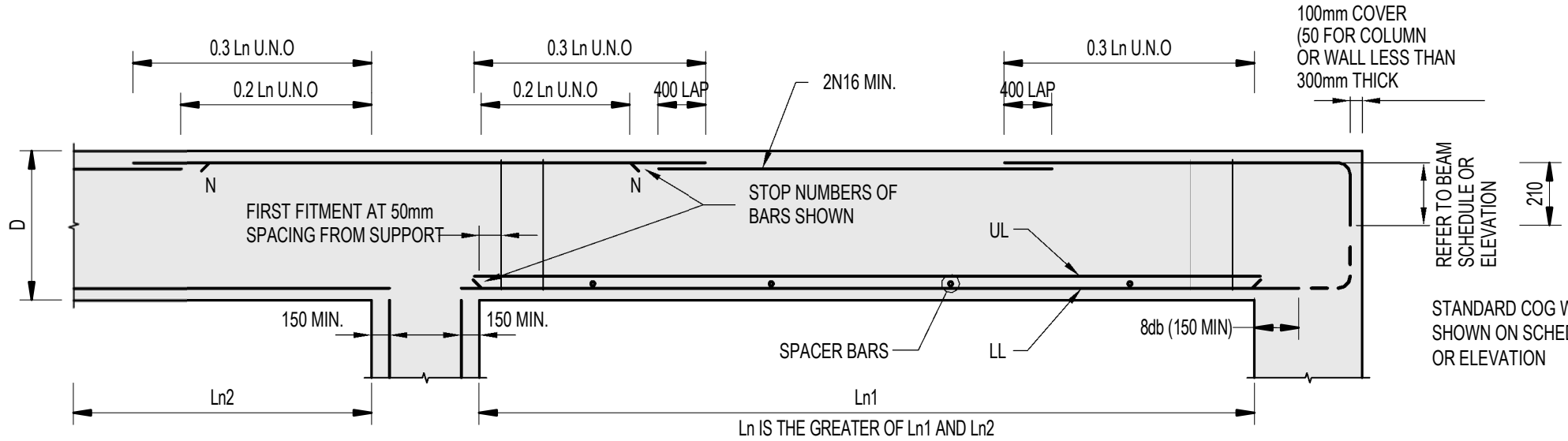
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REV: PW - 02-DD - S - DR -3500 -A



TYPICAL ARRANGEMENT OF SLAB REINFORCEMENT

NOTES

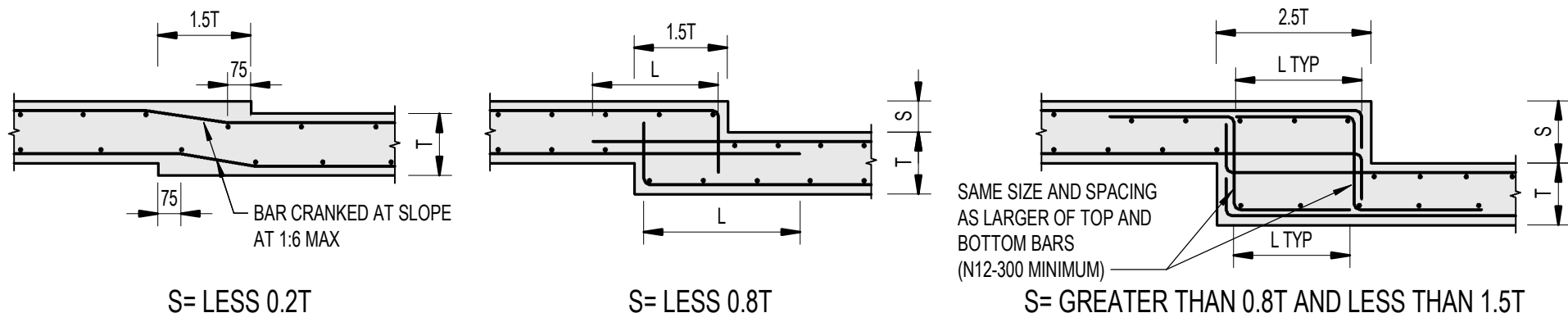
1. X = GREATER OF 12 BAR DIAMETERS AND T



TYPICAL BEAM REINFORCEMENT ARRANGEMENT DETAILS

NOTES

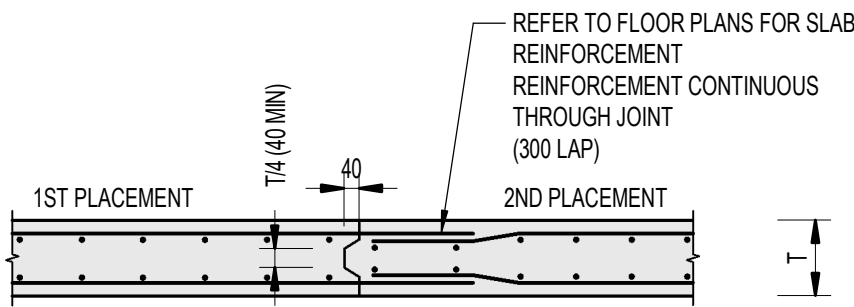
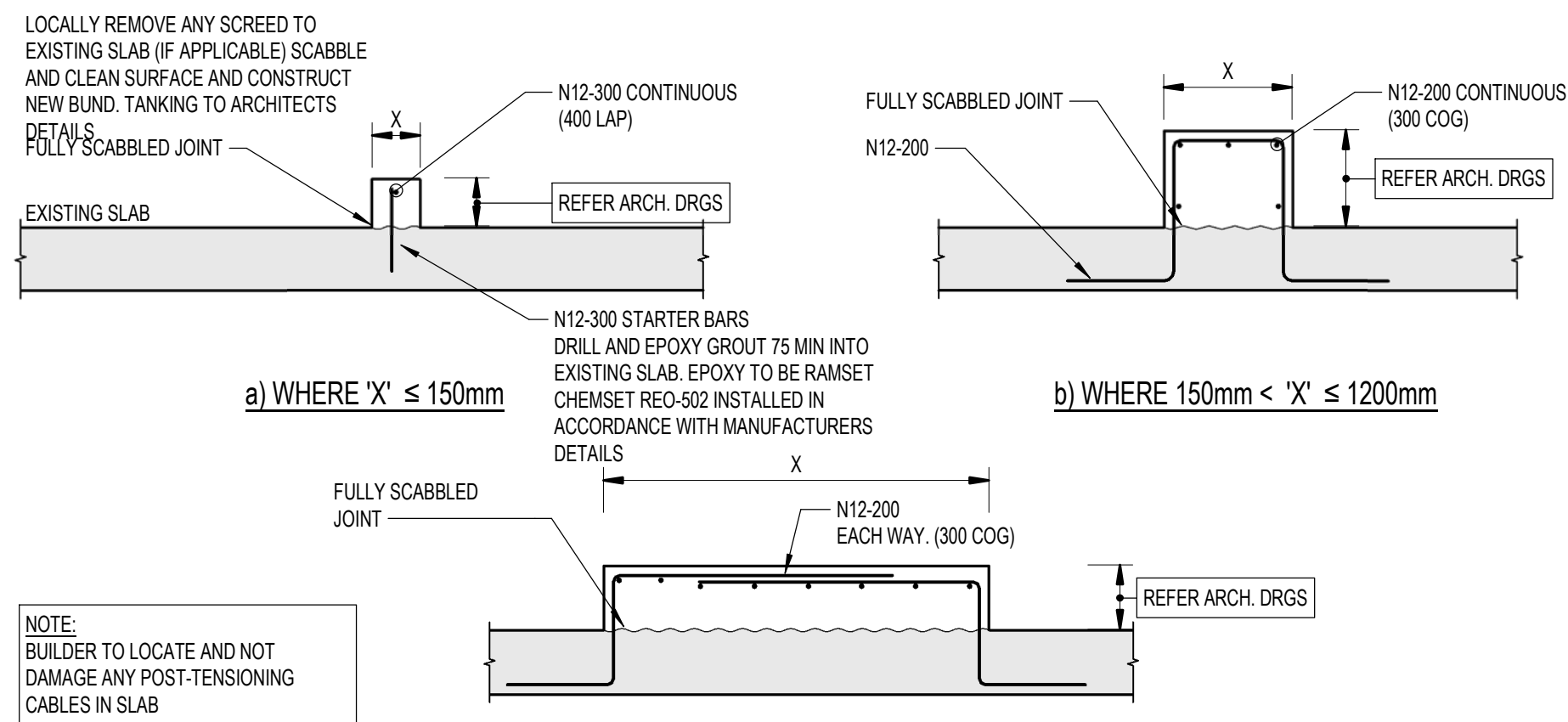
1. FOR REINFORCEMENT, BEAM DIMENSIONS ETC. REFER FLOOR PLANS/SCHEDULE.
2. BEAM DIMENSIONS ARE GIVEN AS DEPTH x WIDTH AND DO NOT INCLUDE FINISHES.
3. BARS ARE TO BE IN ONE LAYER UNLESS SPECIFICALLY NOTED UPPER LAYER (UL) OR LOWER LAYER (LL)
4. BARS AT SLAB LEVEL NEED NOT BE CONFINED TO THE BEAM WIDTH. IF NECESSARY THEY MAY SPREAD INTO THE SLAB WITH 40mm MINIMUM CLEARANCE. REFER FURTHER DETAILS ON PLAN.



TYPICAL SUSPENDED SLAB SETDOWN REINFORCEMENT SPLICE DETAIL

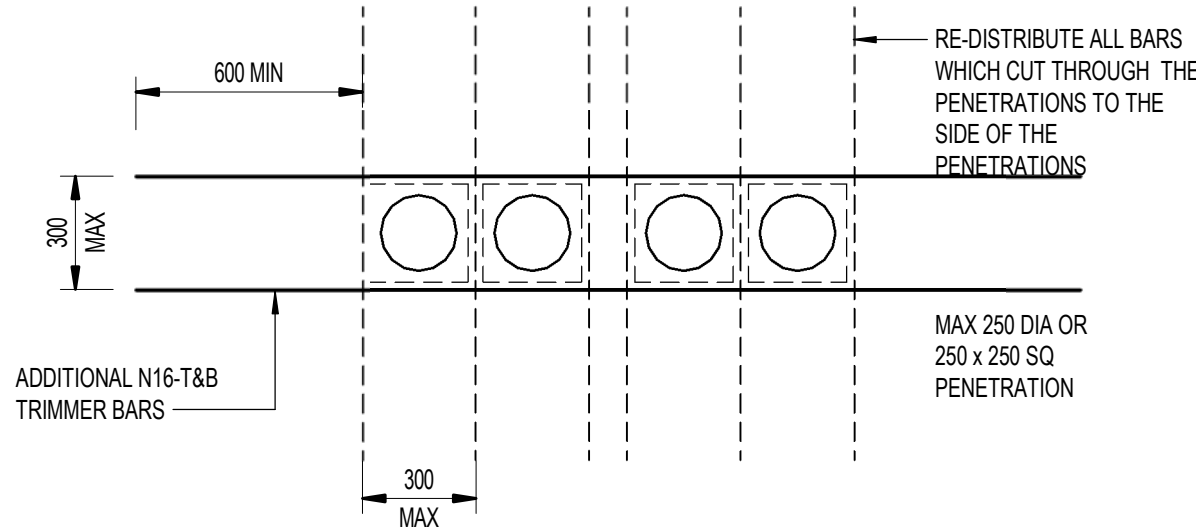
NOTES:

1. DETAILS APPLY UNLESS SHOWN OR NOTED OTHERWISE ON DRAWINGS
2. 'T' REFERS TO SLAB THICKNESS
3. REFER TO PLANS FOR LOCATIONS OF SETDOWNS AND STEPS
4. REINFORCEMENT SIZE AND SPACING TO BE AS SHOWN ON PLAN

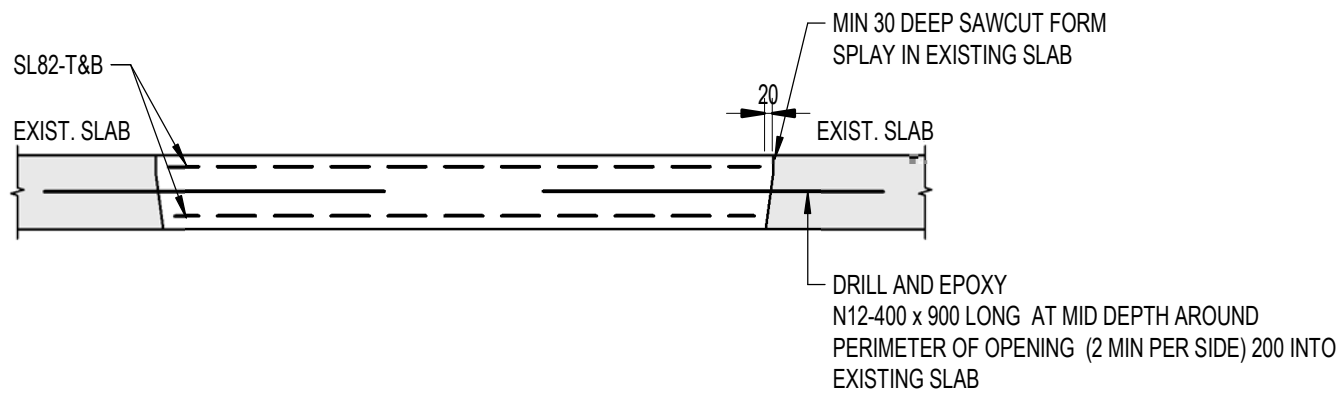


1. LOCATION OF JOINT TO BE TO THE APPROVAL OF THE ENGINEER
2. IF NO REINFORCEMENT AT JOINT, PROVIDE MINIMUM N16-300 x 1200 LONG, LAP 600

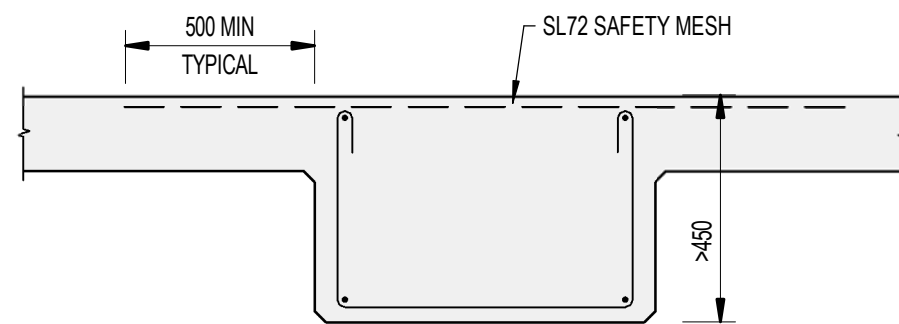
TYPICAL JOINT IN SUSPENDED SLAB DETAIL



TYPICAL ADDITIONAL REINFORCEMENT DETAIL FOR MULTI-PENETRATIONS



TYPICAL INFILL SUSPENDED SLAB DETAIL



- NOTE:
- WHERE BEAMS, BAND BEAMS AND SLABS EXCEED 450mm IN DEPTH AND NO TOP REINFORCEMENT HAS BEEN SPECIFIED, PROVIDE SAFETY MESH AS NOTED
- SAFETY MESH SHALL BE SUPPORTED BY BAR CHAIRS AT 1000 CTS. IN ANY DIRECTION

CONSTRUCTION SAFETY MESH

DRAWING STATUS CONSTRUCTION

ENGINEER

Adams
DESIGNING THE FUTURE

INTERNAL PROJECT No:
160623

ARCHITECT

Conrad Gargett

CLIENT / APPLICANT

NSW Education
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PROJECT MANAGER

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PROJECT

PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING

**CONCRETE DETAILS
SHEET 1**

A1 SCALE

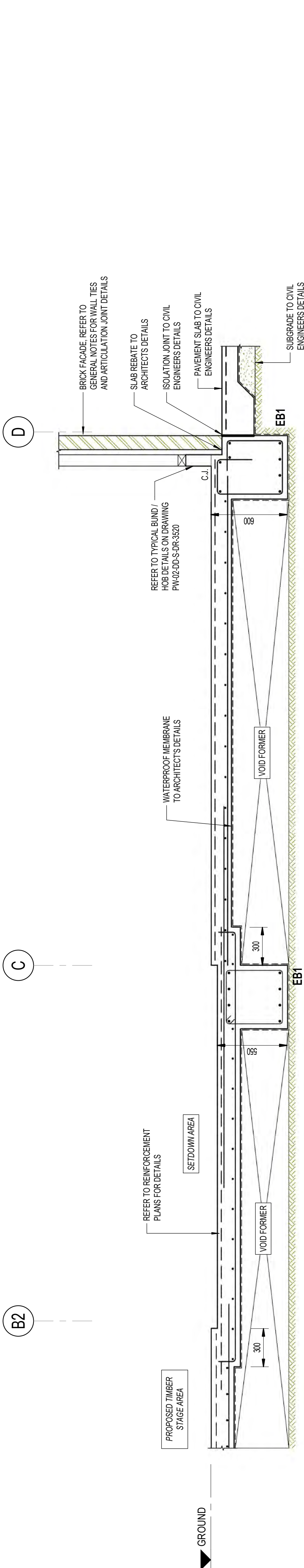
1 : 20

DATE:
07/02/20

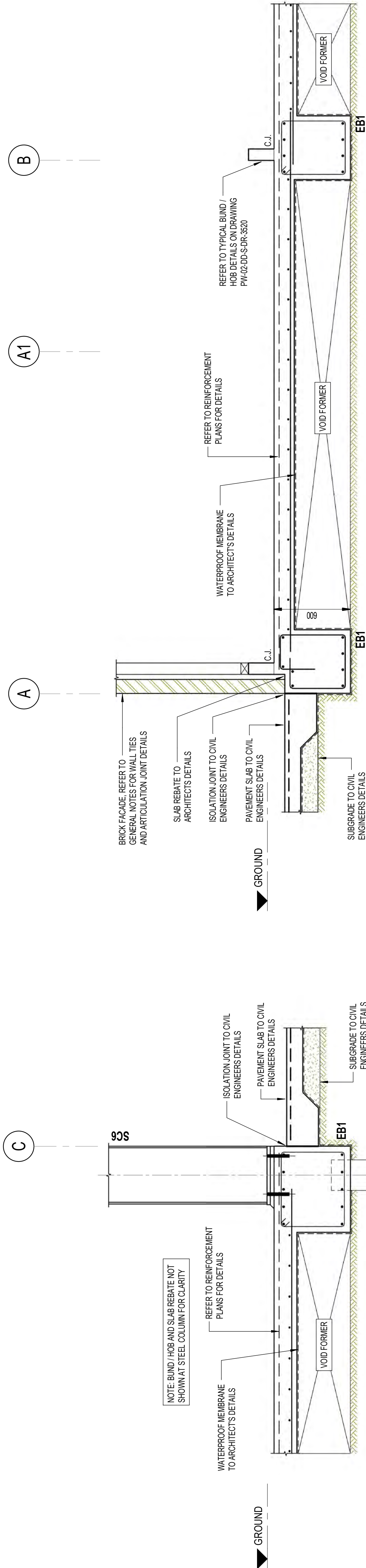
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S3520 -B

SCHOOL ID PAC ID STAGE DISCIPLINE DOC TYPE DRAWING No: REV:

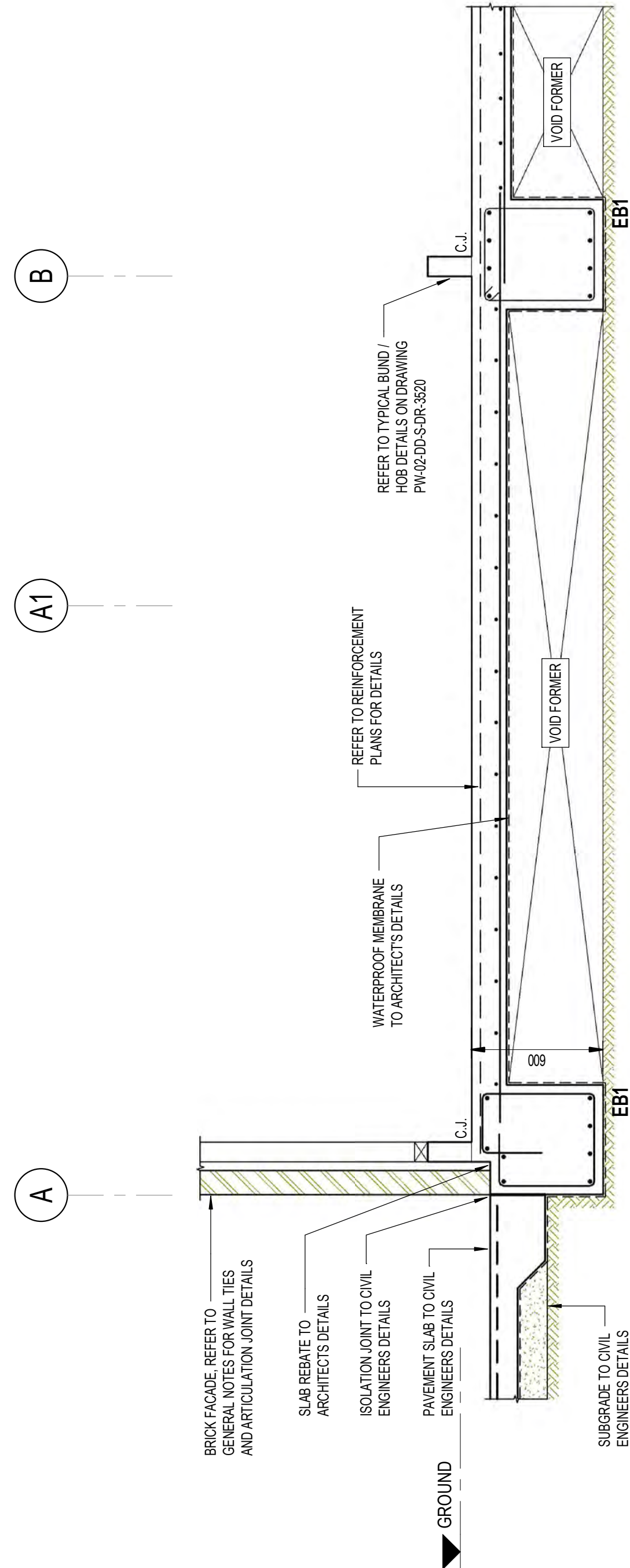
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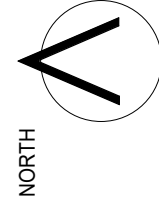
SECTION G.05
SCALE 1:20

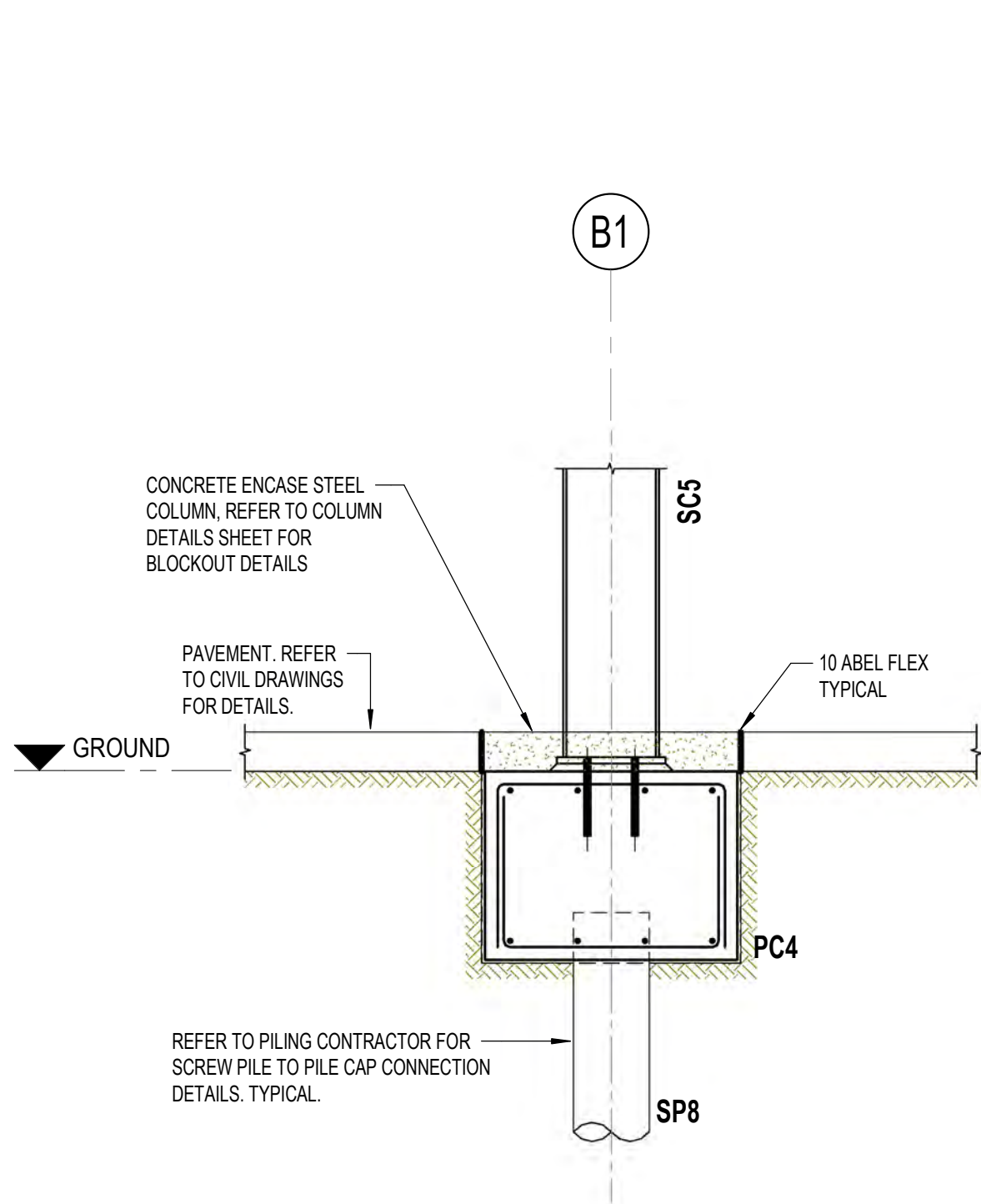


SECTION G.06
SCALE 1:20

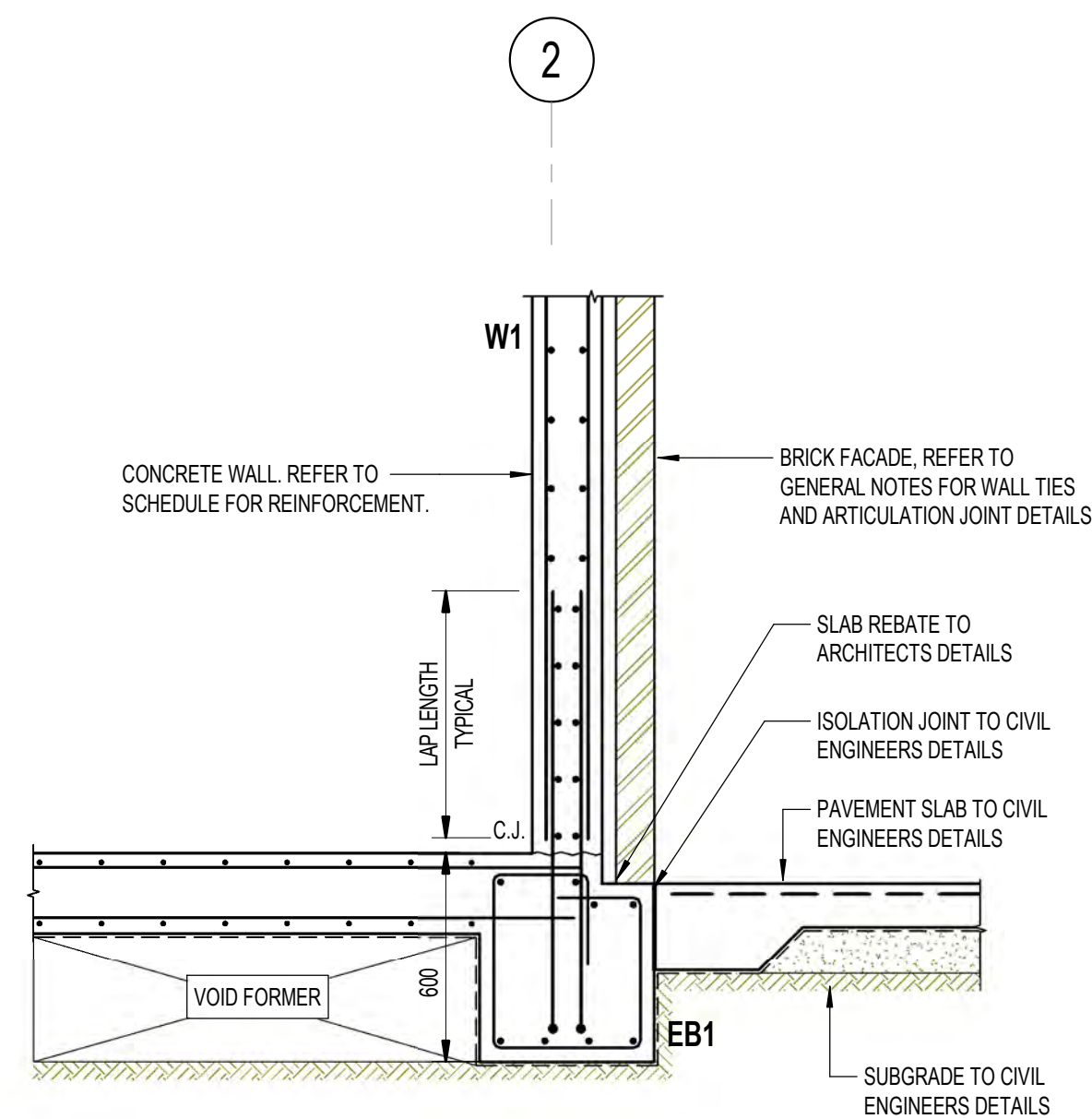


SECTION G.07
SCALE 1:20

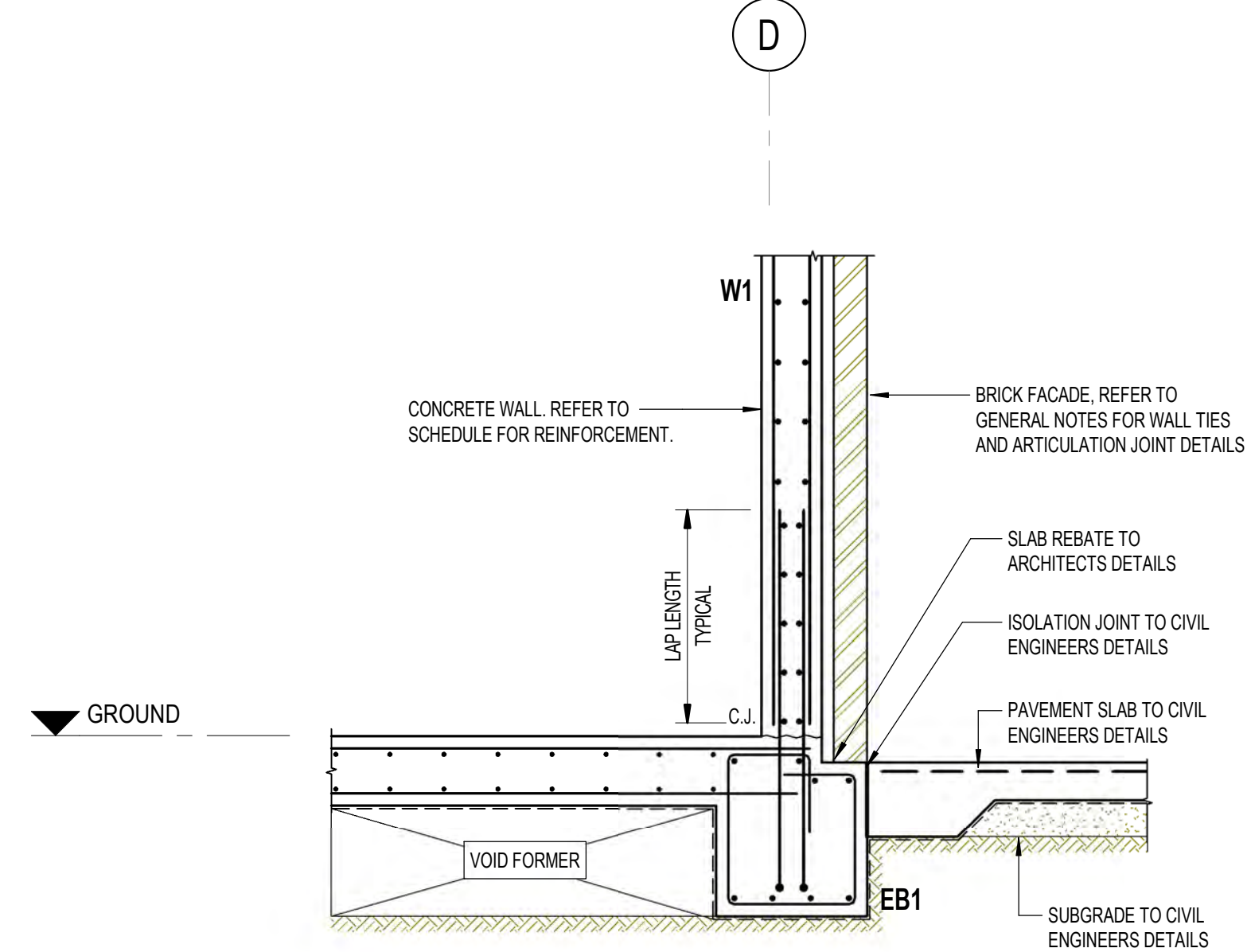




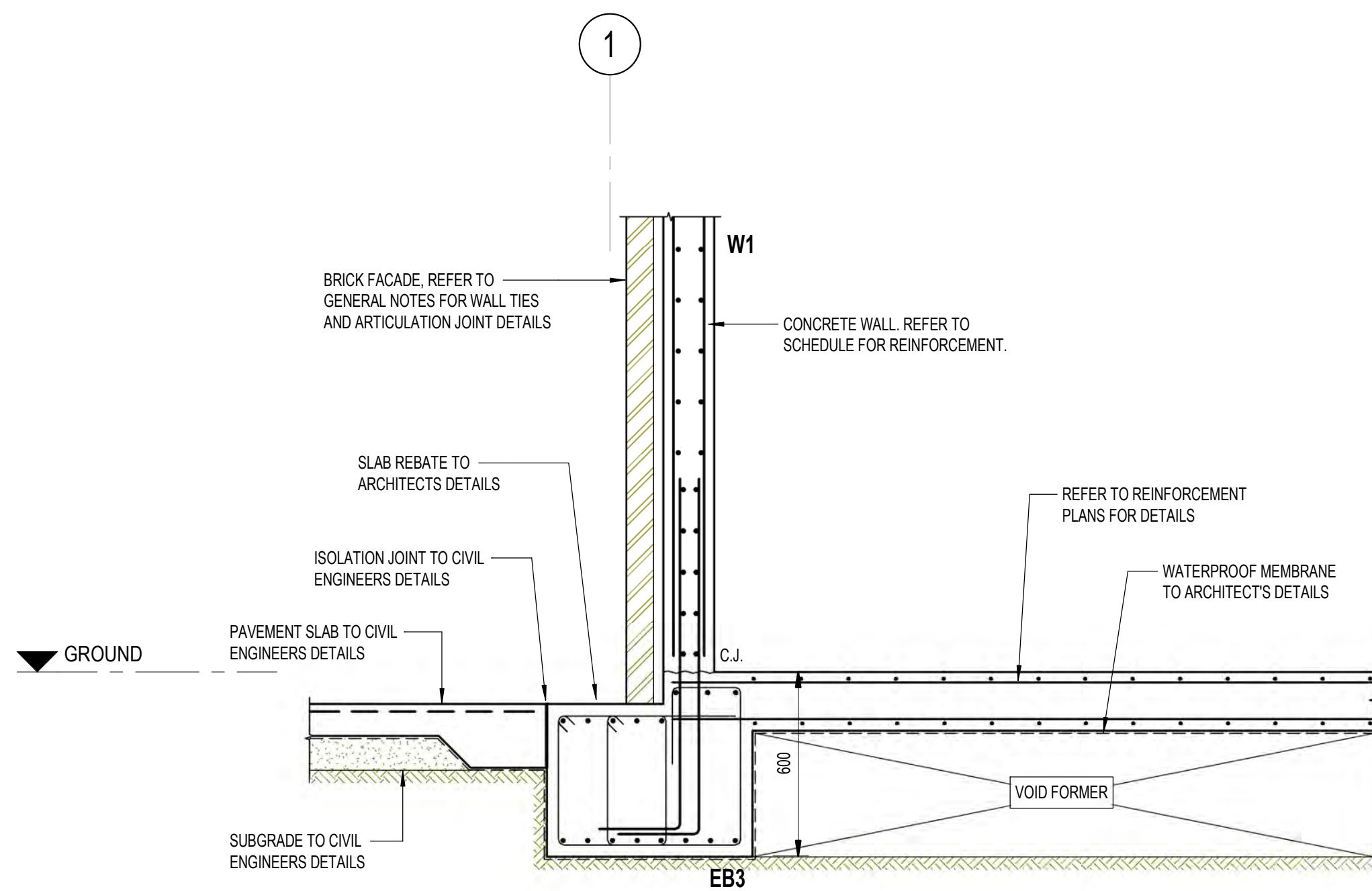
SECTION G.08
SCALE 1:20
2110



SECTION G.09
SCALE 1:20
2111



SECTION G.10
SCALE 1:20
2111



SECTION G.11
SCALE 1:20
2111

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PROJECT
PARRAMATTA REGION SCHOOLS -
PACKAGE 2 (418)
PARRAMATTA WEST PUBLIC SCHOOL

DRAWING
**GROUND FLOOR
SECTIONS
SHEET 3**

A1 SCALE
1:20

DATE:
07/02/20

PROCORE: REV:
S3562 -A

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