

AUSTRALIAN STANDARDS STRUCTURAL DESIGN			
STANDARD CODE	YEAR	TITLE	
AS/NZS 1170 PART 0	2002	STRUCTURAL DESIGN ACTIONS – GENERAL PRINCIPLES (INCORPORATING AMENDMENTS 1,3 AND 4)	
AS/NZS 1170 PART 1	2002	STRUCTURAL DESIGN ACTIONS – PERMANENT IMPOSED AND OTHER ACTIONS (INCORPORATING AMENDMENTS 1 AND 2)	
AS/NZS 1170 PART 2	2021	STRUCTURAL DESIGN ACTIONS – WIND ACTIONS	
AS/NZS 1170 PART 3	2003	STRUCTURAL DESIGN ACTIONS – EARTHQUAKE ACTIONS IN AUSTRALIA (INCORPORATING AMENDMENTS 1 AND 2)	
AS/NZS 1170 PART 4	2007	STRUCTURAL DESIGN ACTIONS – EARTHQUAKE ACTIONS IN AUSTRALIA (INCORPORATING AMENDMENTS 1 AND 2)	
AS/NZS 2327	2017	COMPOSITE STRUCTURES – COMPOSITE STEEL-CONCRETE CONSTRUCTION 1 BUILDINGS (INCORPORATING AMENDMENT 1)	
AS 3600	2018	CONCRETE STRUCTURES (INCORPORATING AMENDMENTS 1 AND 2)	
AS 3700	2018	MASONEY STRUCTURES	
AS 4100	2020	STEEL STRUCTURES	

GENERAL NOTES

- 01

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT OR ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- 02

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- 03

ANY SETTING-OUT DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE BUILDER.
- 04

DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED, TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS & EXCAVATION STABLE AT ALL TIMES.
- 05

THE STRUCTURAL WORK ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:.....2.5kPa, 15kN
- 06

UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES & ALL DIMENSIONS ARE IN MILLIMETRES.
- 07

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CURRENT EDITIONS OF THE RELEVANT SAA STANDARDS AND LOCAL GOVERNMENT ORDINANCES EXCEPT WHERE VARYED BY THE PROJECT SPECIFICATION

CONCRETE

- 01

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS:3600 CURRENT EDITION WITH AMENDMENTS EXCEPT WHERE VARYED BY THE CONTRACT DOCUMENTS
- 02

EXPOSURE CLASSIFICATION
THE EXPOSURE CLASSIFICATION IN ACCORDANCE WITH AS:3600 IS AS FOLLOWS:
INTERIOR – EXPOSURE CLASSIFICATIONA2
EXTERIOR – EXPOSURE CLASSIFICATIONA2 ON GROUND
- 03

CONCRETE QUALITY AND COVER

STANDARD AS: 3600-CURRENT EDITION WITH AMENDMENT					
ELEMENT	CONC GRADE	MAX SLUMP mm	AGG SIZE mm	STANDARD FORMWORK & COMPACTION USED	CAST AGAINST GROUND & STANDARD COMPACTION USED
PILE CAPS	N32	80	20	–	–
FOOTINGS	N25	80	20	40	40
EDGE BEAMS	N32	80	20	40	40
SLAB	N32	80	20	25	25 TOP
AFS WALLS	S32	230	14	45	–

THE CONCRETE GRADE IS DENOTED BY AN "N" OR "S" FOR "NORMAL" OR "SPECIAL" GRADE FOLLOWED BY A NUMBER SPECIFYING THE REQUIRED 28 DAY COMPRESSIVE STRENGTH IN MPa. REQUIREMENTS FOR THE SPECIAL GRADE CONCRETE ARE AS FOLLOWS:
– AFS WALL CONCRETE TO AFS RECOMMENDATIONS.

- 04

IF REINFORCEMENT INSPECTION IS REQUIRED, THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE & CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL OBTAINED
- 05

NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 06

THE FINISHED CONCRETE SHALL BE DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY BEDDING THE REINFORCING AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- 07

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- 08

REINFORCEMENT SYMBOLS:
S – GRADE 230 S HOT ROLLED DEFORMED BAR TO AS1302
N – GRADE 500 N BARS TO ASM1302 GRADE N
R – GRADE 230 R HOT ROLLED PLAIN BARS TO AS1302
SL – HARD DRAWN WIRE REINFORCING FABRIC TO AS1302
W – HARD DRAWN PLAIN WIRE TO AS1302
THE NUMBER FOLLOWING THE SYMBOL FOR A BAR IS THE DIAMETER OF THE BAR IN MILLIMETRES.
- 09

REFER TO DRAWINGS FOR DETAILS OF LAPS IN MESH IN COMPOSITE CONCRETE CONDECK SLABS
- 10

REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON WILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONC CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS
- 11

CURING OF ALL CONC IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS AND PREVENTION FOR LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS, FOLLOWED BY GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE TO BE PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- 12

FORMWORK TO SUSPENDED CONCRETE SHALL BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED STRENGTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO WALLS OR OTHER PERMANENT LOADING SHALL BE ERECTED ON SUSPENDED SECTIONS OF THE STRUCTURE UNTIL ALL FORMWORK AND PROPS HAVE BEEN REMOVED FROM THOSE SECTIONS.
- 13

PROVIDE UPWARD CAMBER TO FORMWORK OF CANTILEVERS OF L/120 WHERE L IS THE SHORTEST PROJECTION BEYOND COLUMN OR WALL FACE AND TO FORMWORK OF SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB & BEAM DEPTHS SHOWN

CONCRETE TESTING

- C11.

PROJECT CONTROL TESTING IS REQUIRED
- C12.

REGISTER THE PROJECT WITH THE TESTING AUTHORITY
- C13.

CARRY OUT COMPRESSIVE STRENGTH TESTING AS FOLLOWS:

(i) COLUMNS – EVERY TRUCKLOAD OF CONCRETE DELIVERED AND PLACED INTO FORMWORK

(ii) FOOTINGS, PILECAPS, SLABS ON GROUND, STAIRS, SUSPENDED FLOORS, ROOF TO FOLLOWING TABLE:

NO OF BATCHES FOR EACH TYPE + GRADE OF CONCRETE PER DAY	MINIMUM NUMBER OF SAMPLES (2 CYLINDERS PER SAMPLE)
1	1
2–5	2
6–10	3
11–20	4

FOUNDATIONS

- F1

ALL FOOTINGS SHALL BEAR ON SIMILAR UNDISTURBED SOLID MATERIAL HAVING AN ALLOWABLE BEARING CAPACITY OF ...100 kPa. FOUNDATION MATERIAL SHALL BE APPROVED BY THE ENGINEER FOR THIS PRESSURE BEFORE PLACING CONCRETE.
- F2

EXCAVATION SHALL NOT BE MADE BELOW THE LEVEL OF ANY EXISTING ADJACENT FOOTINGS WITHOUT THE APPROVAL OF THE ENGINEER.
- F3

FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS & COLUMNS UNLESS NOTED OTHERWISE.
- F4

DO NOT EXCEED A RISE OF 1 IN A RUN OF 2 FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.
- F5.

REFER TO GEOTECHNICAL REPORT FOR SOIL AGGRESSIVITY POTENTIAL

PILING

1.

ALL PILES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH AS:2159 PILING CODE.
2.

DETAILED DESIGN OF PILES SHALL BE RESPONSIBILITY OF SPECIALIST PILING SUB-CONTRACTOR. SUBMIT PILE DETAILS FOR APPROVAL.
3.

PILE CAPS AND THE LIFT BASE SHOWN ON THESE DRAWINGS ARE SUBJECT TO CONFIRMATION ON COMPLETION OF THE DETAILED PILE DESIGN.
4.

PILES SHALL BE DESIGNED, INSTALLED, TESTED AND CERTIFIED TO SUPPORT WORKING LOADS AS NOMINATED ON PLAN. AT LEAST 2 PILES, NOMINATED BY ENGINEER, SHALL BE SUBJECT TO STATIC LOAD TESTS.
5.

SUBMIT PILING RECORDS TO ENGINEER INCLUDING WORK AS EXECUTED, SETOUT AND REDUCED LEVEL OF PILE TOP.
6.

ALL SITE WELDING SHALL BE TO AS:1554 USING E41XX ELECTRODES.
7.

STEEL PLATES SHALL BE GRADE 300 PLATE OR S.E.F.B. TO AS:3678 OR AS:3679
8.

CONTRACTOR TO CHECK ALL SERVICES LOCATIONS AND STATUS OF SERVICES PRIOR TO INSTALLATION OF PILING. DEPTHS NOTED ARE APPROXIMATE.
9.

REFER TO ARCHITECTS PLANS FOR LEVELS AT BASEMENT, PILES TO BE INSTALLED VERTICALLY UNLESS APPROVED OTHERWISE BY ENGINEER.
10.

FOR GENERAL NOTES REFER DRAWING 501.
11.

GEOTECHNICAL INFORMATION IS TO BE SUPPLIED BY THE CLIENT.
12.

AT LIFT PIT PROVIDE NOT LESS THAN 4 PILES TO EACH.

SITE NOTES

- SN1.

THE SITE IS CLASSIFIED CLASS "F" IN ACCORDANCE WITH AS:2870. RESIDENTIAL SLABS & FOOTINGS CODE.
- SN2.

THE SLAB HAS BEEN DESIGNED FOR A LEVEL BUILDING PLATFORM & FOR FULLY TRUSSED ROOF CONSTRUCTION.
- SN3.

ALL VEGETATION & TOPSOIL IS TO BE REMOVED FROM THE SITE PRIOR TO THE PLACEMENT OF THE UNDERSLAB FILL.
- SN4.

REFER TO GEOTECHNICAL REPORT 88400.0 REV 1 OCTOBER 2023 PREPARED BY DOUGLAS PARTNERS.

TERMITE PROTECTION

- TT1.

AN OPEN DECK CARPARK DOESN NOTE REQUIRE TERMITE PROTECTION.

CONSTRUCTION SEQUENCE

- C51

THE CONSTRUCTION SEQUENCE IS PROPOSED ON THE BASIS OF PROVISION OF CLUB PARKING THROUGHOUT THE CONSTRUCTION PROGRAMME.
- C52

PARKING STRUCTURE BETWEEN GRIDS 2 AND 4 ARE INTENDED TO BE CONSTRUCTED AND PLACED INTO OPERATIONAL SERVICE PRIOR TO COMMENCEMENT OF CONSTRUCTION OF STRUCTURE BETWEEN GRIDS 1 AND 2. THUS, DURING INITIAL CONSTRUCTION THE GRADE LEVEL PARKING TO THE NORTHERN PART OF THE SITE SHALL REMAIN IN USE BY CLUB PATRONS.
- C53

CONSTRUCTION OF STRUCTURE BETWEEN GRIDS 2 AND 4 PROVIDES THE FULL CORKSCREW CIRCULATION OF THE INCLINED PARKING DECKS.
- C54

THE NUMBER OF PARKING SPACES PLACED INTO OPERATIONAL SERVICE IS SUBJECT TO CERTIFIER REQUIREMENTS UNDER A PARTIAL OCCUPANCY CERTIFICATE.
- C55

THE LIFT AND STAIR NO 1 MAY NOT BE CONSTRUCTED AT SAME TIME AS STRUCTURE GRIDS 2 TO 4.
- C56

THE NORTHERN DECKED PARKING STRUCTURE INCLUDING FOUNDATIONS AND FOOTINGS, IS NOT TO BE CONSTRUCTED UNTIL HANDOVER OF DECK STRUCTURE GRIDS 2 TO 4 TO THE CLUB.
- C57

VEHICLE BARRIERS ON GRID 2 ARE REQUIRED FOR INITIAL CONSTRUCTION HOWEVER ARE TO BE REMOVED AFTER COMPLETION OF STRUCTURE GRIDS 1 TO 2.

LOAD BEARING BRICKWORK

- BW1

ALL BRICKS SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 20MPa WHEN TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF AS:3700 SAA MASONRY CODE.
- BW2

MORTAR TO BE MIXED IN THE PROPORTION OF 1 : 1 : 6 CEMENT: HYDRATED LIME: SAND, OR EQUIVALENT SAND-CEMENT MORTAR WITH PLASTICISER.
- BW3

PLACE A DOUBLE LAYER OF CONTINUOUS 1.00mm THICK GALVANISED STEEL STRIP WITH MULTIDENOVN SULPHUR GREASE BETWEEN FOR THE FULL WIDTH OF LOAD-BEARING BRICK OR CONCRETE BLOCK WALLS AT SLAB AND BEAM BEARING SURFACES. SEAL THE EDGES OF THE STRIPS WITH MASKING TAPE.
- BW4

LOADBEARING BRICK WALLS SHALL NOT BE USED TO SUPPORT FORMWORK FOR SLABS SUPPORTED THEREON, WITHIN 1km OF THE SEA ALL MASONRY ACCESSORIES TO COMPLY WITH BC469
- BW5

HOUSING PROVISIONS TABLE 3.3.3.1 FOR EXPOSURE CATEGORY LESS THAN 1 km FROM BREAKING SURF (i.e. STAINLESS STEEL OR ENGINEERED POLYMER
- BW6

LOADBEARING BRICK WALLS SHALL NOT BE USED TO SUPPORT FORMWORK FOR SLABS SUPPORTED THEREON.

LOAD BEARING MASONRY

- BW1

ALL BLOCKS SHALL HAVE A MINIMUM CRUSHING STRENGTH OF MPa WHEN TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.3700 SAA MASONRY CODE.
- BW2

MORTAR TO BE MIXED IN THE PROPORTION OF 1 : 1 : 6 CEMENT: HYDRATED LIME: SAND, OR EQUIVALENT SAND-CEMENT MORTAR WITH PLASTICISER.
- BW3

PLACE A DOUBLE LAYER OF CONTINUOUS 0.55mm THICK GALVANISED STEEL STRIP WITH MULTIDENOVN SULPHUR GREASE BETWEEN FOR THE FULL WIDTH OF LOAD-BEARING BRICK ON CONCRETE BLOCK WALLS AT SLAB AND BEAM BEARING SURFACES. SEAL THE EDGES OF THE STRIPS WITH MASKING TAPE.
- BW4

LOADBEARING BRICK WALLS SHALL NOT BE USED TO SUPPORT FORMWORK FOR SLABS SUPPORTED THEREON.

REINFORCED CONCRETE BLOCKWORK

- B1

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS:3700 SAA MASONRY CODE.
- B2

UNITS SHALL BE CLASS A HAVING A MINIMUM COMPRESSIVE STRENGTH, f_{cu}, OF 15 MPa AND SHALL CONFORM TO AS 3700.
- B3

UNITS SHALL NOT BE WETTED PRIOR TO LAYING.
- B4

MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO OF ONE PART CEMENT, ONE-FIFTH PART HYDRATED LIME AND THREE PARTS SAND, AND SHALL CONFORM TO AS 3700.
- B5

ALL JOINTS INCLUDING PERPENDS SHALL BE COMPLETELY FILLED WITH MORTAR.
- B6

CLEAN-OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF ALL CORES WHICH ARE TO BE FILLED WITH GROUT.
- B7

GROUT FOR FILLING CORES SHALL BE COMPOSED OF ONE PART CEMENT, ONE-TENTH HYDRATED LIME, THREE PARTS SAND, TWO PARTS 10mm NOMINAL SIZE AGGREGATE AND SHALL CONFORM TO AS3600. THE GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH f_{cu} OF 20 MPa AND A SLUMP OF 230mm ± 30mm.
- B8

BEFORE GROUTING, ALL PROJECTING FINIS OF MORTAR SHALL BE REMOVED FROM THE CORES BY RODDING AND/OR BRUSHING AND REMOVED THROUGH THE CLEAN-OUT OPENINGS.
- B9

VERTICAL REINFORCEMENT SHALL BE TIED IN ITS CORRECT POSITION TO THE BOTTOM STARTER BARS VIA THE CLEAN-OUT OPENINGS AND HELD IN POSITION AT THE TOP.
- B10

GROUT SHALL BE RODDED OR VIBRATED TO ENSURE THAT THE CORES ARE COMPLETELY FILLED.
- B11

GROUT POUR HEIGHT SHALL NOT EXCEED 1.8 METRES.
- B12

FOR HALTS IN PLACING GROUT, THE LEVEL OF GROUT SHALL BE LOCATED AT LEAST 50mm FROM ANY HORIZONTAL JOINT IN THE BLOCKWORK.
- B13

UNLESS OTHERWISE SHOWN, ALL CORES SHALL BE FILLED WITH GROUT.
- B14

NO BACKFILL SHALL BE PLACED BEHIND REINFORCED CONCRETE BLOCKWORK WALLS UNTIL THE GROUT HAS ATTAINED A STRENGTH OF 15 MPa, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

FORMWORK

- F1

FORMWORK SHALL BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR THE ADEQUACY OF FORMWORK.
- F2

ALL FORMWORK SHALL BE EXECUTED IN ACCORDANCE WITH AS3610 CURRENT EDITION
- F3

INFORMATION CONTAINED IN THIS DOCUMENTATION IS A GUIDE TO THE CONTRACTOR. THE CONSULTANT ENGINEER WILL NOT BE RESPONSIBLE FOR FORMWORK DESIGN OR CONSTRUCTION ARISING FROM THESE NOTES
- F4

MINIMUM FORMWORK STRIPPING TIMES ARE AS FOLLOWS:

VERTICAL FACES ON CLASS 2 OR 3 SURFACES 2 DAYS
VERTICAL FACES ON CLASS 4 SURFACES 1 DAY
SLAB AND BEAM SOFFITS FORMWORK 6 DAYS FOR FORMWORK WHERE STRUCTURE IS TO BE BACKPROPPED 18 DAYS FOR REMOVING BACKPROPS
COLUMN FORMWORK 2 DAYS
- F5

SPACING OF SLAB SUPPORTS SUCH AS BACKPROPS SHALL NOT EXCEED THE FOLLOWING:

200mm THICK SLAB 2900mm
240mm THICK SLAB 3200mm
OTHER THICKNESS SUBJECT TO ENGINEERING ADVICE
- F6

EARLY AGE CONCRETE STRENGTH AT TIME OF BACKPROPPING SHALL NOT BE LESS THAN 30MPa FOR GRADE N40 CONCRETE
- F7

MULTISTOREY FORMWORK SHALL BE SUPPORTED AS FOLLOWS: IN ACCORDANCE WITH AS3610 CURRENT EDITION
- F8

BACKPROPPING SHALL BE INSTALLED PROGRESSIVELY TO REINFORCED CONCRETE SLABS IN ACCORDANCE WITH AS3600. DIAGRAMMATIC DETAILS ARE INDICATED BELOW:

DO NOT DISTURB FORMWORK AT POST-TENSIONED FLOORS UNTIL POST-TENSIONING HAS BEEN COMPLETED, ANCHORAGES SEALED AND UNTIL AT LEAST 24 HOURS HAS PASSED AFTER GROUTING OF TENDON DUCTS.
- F10

ALL EARLY AGE CONCRETE TEST CYLINDERS SHALL BE LEFT ONSITE AT THE SAME LOCATION AS THE STRUCTURAL MEMBER FOR THE CYLINDER.
- F11

FORMED CONCRETE SURFACES, USE THE FOLLOWING TABLE:

SURFACE FORMWORK CLASS FORMWORK CLASS
SLAB AND SOFFITS AND SIDES TO SUSPENDED SLABS 2 B
COLUMNS (WHERE NECESSARY FOR PAINTING) 2 B
PILECAPS AND FOOTINGS 5 C
- F12

REFER TO THE FORMWORK DRAWINGS FOR CONCEPT DESIGN OF FORMWORK AND PROPPING USING CONDECK AS FORMWORK FOR THE COMPOSITE CARPARK SLABS AND PROPPING AS SPECIFIED.

CONDECK NOTES

1.

CONDECK SHALL BE CONDECK II PROFILE STEEL SHEETING ROLL FORMED FROM HOT DIPPED ZINC COATED STEEL STRIP TO AS:1397 GRADE G550-2200.
2.

CONDECK THICKNESSES SHALL BE 1.00mm THICK CONDECK.
3.

CONDECK SHALL BE PLACED TO GIVE UNIFORM BEARING ON SUPPORTING MEMBERS AS FOLLOWS:

STEEL BEAMS WHERE CONDECK CONTINUES OVER BEAMS – 50mm MIN. STEEL BEAMS AT END OF CONDECK SHEETS – 50mm MIN.
4.

WHERE CONDECK IS PLACED ON OSD TANK WALLS FINISH THE 190 BLOCK WALL WITH A 10mm MORTAR LAYER STEEL TROWELLED SMOOTH TO A TOLERANCE OF 3mm IN 1000mm. PLACE A DOUBLE LAYER OF DAMP PROOF COURSING (DPC) BETWEEN THE MORTAR LAYER AND CONDECK.
5.

REFER FORMWORK PLANS FOR CONDECK TEMPORARY PROPPING.
6.

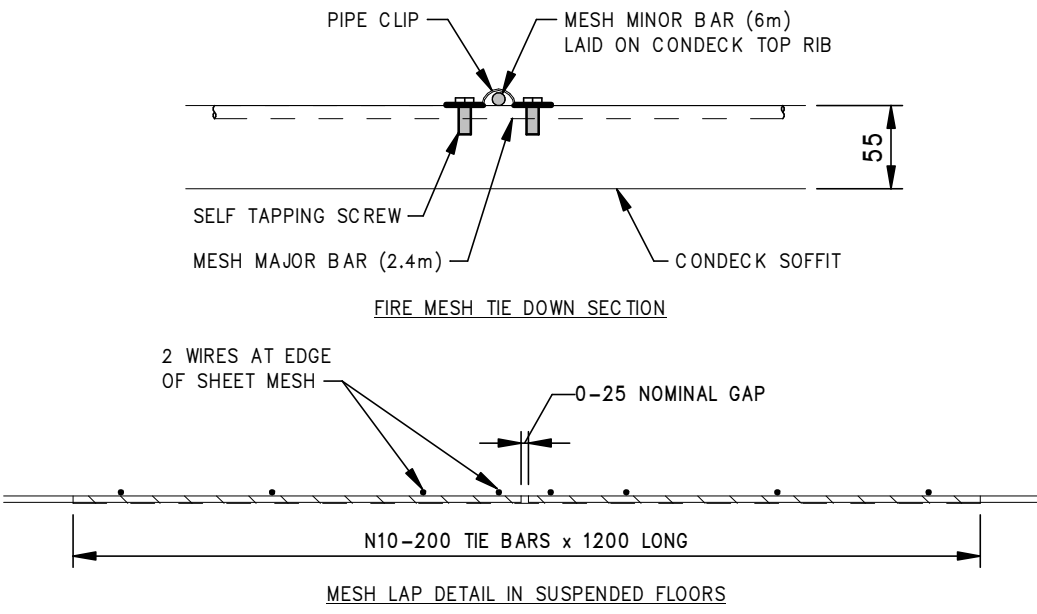
ALLOW FOR ADDITIONAL CONCRETE TO COMPENSATE FOR DEFLECTIONS OF CONDECK SHEETING
7.

CURE CONCRETE FOR MINIMUM 7 DAYS BY COVERING THE SLAB SURFACE WITH VAPOUR BARRIER WEIGHED DOWN TO PREVENT AIR CIRCULATION. DO NOT USE SPRAYED CURING COMPOUNDS IN ANY AREA TO RECEIVE AN APPLIED SURFACE FINISH.
8.

FOR CONSTRUCTION LOADING AND TIMING, REFER TO FORMWORK DRAWINGS.
9.

FORM EDGES OF SLAB WITH SUITABLE METAL EDGE FORMS.
10.

PROVIDE CLIPS TO SL92 MESH AND CONNECT TO CONDECK RIBS TO PREVENT REINFORCEMENT SLIDING DURING ERECTION AND CONCRETE PLACEMENT.



STRUCTURAL STEEL

- S1

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS:4100 AND AS:1554 EXCEPT WHERE VARYED BY CONTRACT DOCUMENTS.
- S2

UNLESS NOTED OTHERWISE ALL STEEL SHALL BE IN ACCORDANCE WITH AS:3679 GRADE 300
- S3

THE BUILDER SHALL PREPARE WORKSHOP DRAWINGS AND SUBMIT 3 COPIES OF EACH DRAWING FOR APPROVAL. FABRICATION SHALL NOT COMMENCE UNTIL APPROVAL HAS BEEN RECEIVED
- S4

BOLT DESIGNATION :-
4.6/S-COMMERCIAL BOLTS OF GRADE 4.6 TO AS:1111-SNUG TIGHTENED
8.8/S-HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS:1252 SNUG TIGHTENED
8.8/1B-HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS:1252 FULLY TENSIONED TO AS:1511 AS A BEARING JOINT
8.8/1F-HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS:1252 FULLY TENSIONED TO AS:1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED
- S5

WELDS SHALL BE 6mm CONTINUOUS FILLET TYPE GP, USING E41XX ELECTRODES (UNLESS NOTED OTHERWISE). BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS TO AS:1554
- S6

UNLESS NOTED ALL GUSSET PLATES TO BE 10mm
- S7

PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS, WITH "BREATHER" HOLES IF MEMBERS TO BE HOT DIP GALVANISED
- S8

ROOF STRUCTURES HAVE BEEN DESIGNED FOR NORMAL ROOF LOADS ONLY AND DO NOT ALLOW FOR ANY EXTRANEOUS LOADS SUCH AS HOSTS, MONORAILS, ETC, EXCEPT WHERE SHOWN ON STRUCTURAL DRAWINGS
- S9

ALL STEELWORK SHALL BE SECURELY TEMPORARILY BRACED AS REQUIRED TO STABILISE THE STRUCTURE DURING CONSTRUCTION
- S10

STEEL FLOOR BEAMS SHALL BE PRECAMBERED SPAN/500 AND SHALL BE PROVIDED WITH NO SPLICES.
- S11

STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE SPECIFICATION :-

ENVIRONMENT	LOCATION	MINIMUM PROTECTIVE COATINGS	
		General structural steel members	Details on masonry
MODERATE	EXTERNAL	BLAST CLEAN CLASS 2.5 INORGANIC ZINC SILICATE 75um DFT	HOT DIP GALVANISED

FIRE RESISTING CONSTRUCTION

- FRC1

THE CARPARK HAS BEEN DESIGNED AS AN OPEN DECK CARPARK TO COMPLY WITH B.C.A. 2022 55519.
- FRC2

THE CARPARK HAS BEEN DESIGNED AS A 5 STOREY STRUCTURE. FUTURE CONSTRUCTION COULD ADD 3 STOREIES TO THE STRUCTURE
- FRC3

THE CARPARK IS THEN CONSIDERED TO BE TYPE A CONSTRUCTION FOR THE CARPARK STRUCTURE. CURRENT CONSTRUCTION AS OPEN FIRE EXIT STAIRS WILL NEED TO BE ASSESSED FOR COMPLIANCE AT TIME OF FUTURE CONSTRUCTION OF ADDITIONAL STOREIES.
- FRC4

STRUCTURAL MEMBER	REQUIRED ESA/M	STEEL SECTION AND COMPLIES ACTUAL ESA/M	
COLUMNS	≤26m ² /tonne	900WB175	17.0 YES
		900WB257	13.3 YES
		350WC197	10.3 YES
BEAMS	≤30m ² /tonne	610UB101	18.1 YES
		460UB67	21.4 YES
		250UB31	29.0 YES

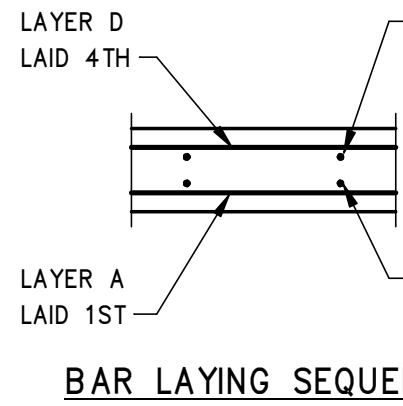
FIRE

SUMMARY TYPE A CONSTRUCTION REQUIREMENTS FOR OPEN DECK CARPARK TYPE A CONSTRUCTION: FRL OF BUILDING ELEMENTS

BUILDING ELEMENT	CLASS OF BUILDING-FRL (IN MINUTES)	
	STRUCTURAL ADEQUACY/INTEGRITY/INSULATION	
CLASS 7a		
EXTERNAL WALL (INCLUDING ANY COLUMN AND OTHER BUILDING ELEMENT INCORPORATED THEREIN) OR EXTERNAL BUILDING ELEMENT, WHERE THE DISTANCE FROM AND FIRE-SOURCE FEATURE TO WHICH IT IS EXPOSED IS: LESS THAN 3m FROM A FIRE SOURCE FEATURE 60/60/60		
COLUMN	ESA/M NOT GREATER THAN 26m ² /TONNE	
INTERNAL WALLS	FIRE RESISTING LIFT AND STAIR SHAFTS: 60/60/60	
BEAMS:	STEEL FLOOR BEAM IN CONTINUOUS CONTACT WITH CONCRETE FLOOR SLAB	
ESA/M NOT GREATER THAN 30m ² /TONNE		
FLOORS SLAB AND VEHICLE RAMPS:	60/60/60	
ROOFS (NOT USED FOR CARPARKING):	--/--/--	

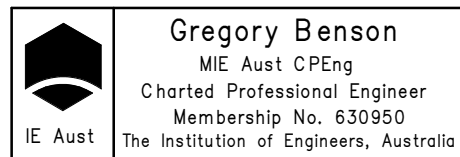
DRAWING LIST

S001	GENERAL NOTES
S002	EARTHQUAKE, WIND & FUTURE EXPANSION
S100	PILING PLAN
S101	FOOTING PLAN
S102	FOOTING DETAILS
S200	GROUND FLOOR CONCRETE PLAN
S201	GROUND FLOOR REINFORCEMENT PLAN
S202	GROUND-LEVEL 1 CONCRETE PLAN
S203	GROUND-LEVEL 1 REINFORCEMENT
S204	GROUND-LEVEL 1 FIRE RESISTANCE REINFORCEMENT
S205	LEVEL 1-3 CONCRETE PLAN
S206	LEVEL 1-3 REINFORCEMENT PLAN
S207	LEVEL 1-3 FIRE RESISTANCE REINFORCEMENT
S208	LEVEL 3-5 CONCRETE PLAN
S209	LEVEL 3-5 REINFORCEMENT PLAN
S210	LEVEL 3-5 FIRE RESISTANCE REINFORCEMENT PLAN
S211	LEVEL 5-6 CONCRETE, REINFORCEMENT & FIRE REINFORCEMENT PLANS
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S213	FIRE TUNNEL SECTIONS
S300	FRAMING PLAN - GROUND - LEVEL 1
S301	FRAMING PLAN - LEVEL 1-3
S302	FRAMING PLAN - LEVEL 3-5
S303	FRAMING PLAN - LEVEL 5-6
S304	ELEVATIONS - GRIDS 1 & 2
S305	ELEVATIONS - GRIDS 3 & 4
S306	ELEVATIONS - GRIDS A - B
S307	ELEVATIONS - GRID C - E
S308	ELEVATIONS - GRID F - H
S309	ELEVATIONS - I - K
S310	ELEVATIONS VEHICLE BARRIER - GRIDS 1 & 2
S311	ELEVATIONS VEHICLE BARRIER - GRIDS 3 & 4
S312	ELEVATIONS VEHICLE BARRIER - GRIDS A
S313	ELEVATIONS VEHICLE BARRIER GRIDS G, K & L
S314	VEHICLE BARRIER DETAILS
S315	STEEL DETAILS SHEET 01
S316	STEEL DETAILS SHEET 02
S317	STEEL DETAILS SHEET 03
S318	STEEL DETAILS SHEET 04
S400	PROPPING PLAN - GROUND - LEVEL 1
S401	PROPPING PLAN - LEVEL 1-3
S402	PROPPING ELEVATIONS



REBAR LAP SPICE LENGTHS

BAR	SPICE LENGTH
N12	500
N16	650
N20	800
N24	960
N28	1120
N32	1280
N36	1440



THE STRUCTURAL DESIGN SHOWN ON DRAWINGS 16048 SHEETS S001 TO S.... HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA 2022 VOLUME 1 PERFORMANCE REQUIREMENT 2.1 AND THE RELEVANT AUSTRALIAN STANDARDS

A P3 P2 P1	12.02.25 22.11.23 30.10.23 22.09.23	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY PRELIM REVISION	PJ8 PJ8 PJ8 PJ8 PJ8	GPB GPB GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners		A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au
	REV.						
	DATE						

Scale		Project Status	
As indicated		PRELIMINARY	
Surveyed		Datum	
Drawn	PJB	Designed	Approved
		GPB	GPB
Checked	GPB	Date	No. of dwgs
		Issue Date	

CLAUSE 8.2 METHOD USING DESIGN ACCELERATIONS

Golburn Workers Club carpark

Diagram illustrating the vertical distribution of non-structural parts and components attached to the building structure. The building is divided into three horizontal sections: floor-roof, floor-level 2, and floor-level 1. Each section contains a grey rectangular block representing a component, with a force vector F_c pointing to it. The force vectors are labeled F_{c-roof} , $F_{c-level2}$, and $F_{c-level1}$ respectively. A vertical dimension line on the left indicates the total building height. A callout line points from the text "NON STRUCTURAL PARTS AND COMPONENTS ATTACHED TO BUILDING STRUCTURE" to the component in the floor-roof section.

FUTURE VERTICAL EXPANSION

- | | |
|-----|--|
| FE1 | THE STRUCTURE AND FOUNDATIONS ARE DESIGNED TO ACCOMMODATE A FUTURE VERTICAL EXPANSION. |
| FE2 | THE FUTURE VERTICAL EXPANSION IS BASED ON 2 ADDITIONAL PARKING DECKS OF IDENTICAL DESIGN TO PARKING DECKS DETAILED IN THESE PLANS. |
| FE3 | THE DESIGN IS BASED ON NCC2022 AND AUSTRALIAN STANDARD IN FORCE AT TIME OF LODGING THE FIRST CONSTRUCTION CERTIFICATE. |



Note:

The horizontal earthquake force on any component shall be applied at the centre of gravity of the component and shall be assumed to act in any horizontal direction. Vertical earthquake forces on mechanical and electrical components shall be taken as 50% of the horizontal earthquake force.

Mechanical connectors from the following shall be designed for 1.5 times the design force for the supported element:

- (a) Curtain walls.
- (b) External walls.
- (c) Walls enclosing stairs, stair shafts, lifts and required exit paths

Design as per AS 1170.4
FALSE

de Groot & Benson

**Consulting
Engineers &
Planners**



A.C.N. 052 300 571
236 Harbour Drive,
Coffs Harbour NSW

Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgb.com.au

Scale	As indicated	Project Status		PRELIMINARY
Surveyed		Datum		
Drawn	PJB	Designed	GPB	Approved
Checked	GPB	Date	Issue Date	No. of dwgs

Project:
WORKERS CLUB CARPARK
1 McKELL PL
GOULBURN

Client:
GOULBURN WORKERS CLUB



Title: EARTHQUAKE, WIND & FUTURE EXPANSION

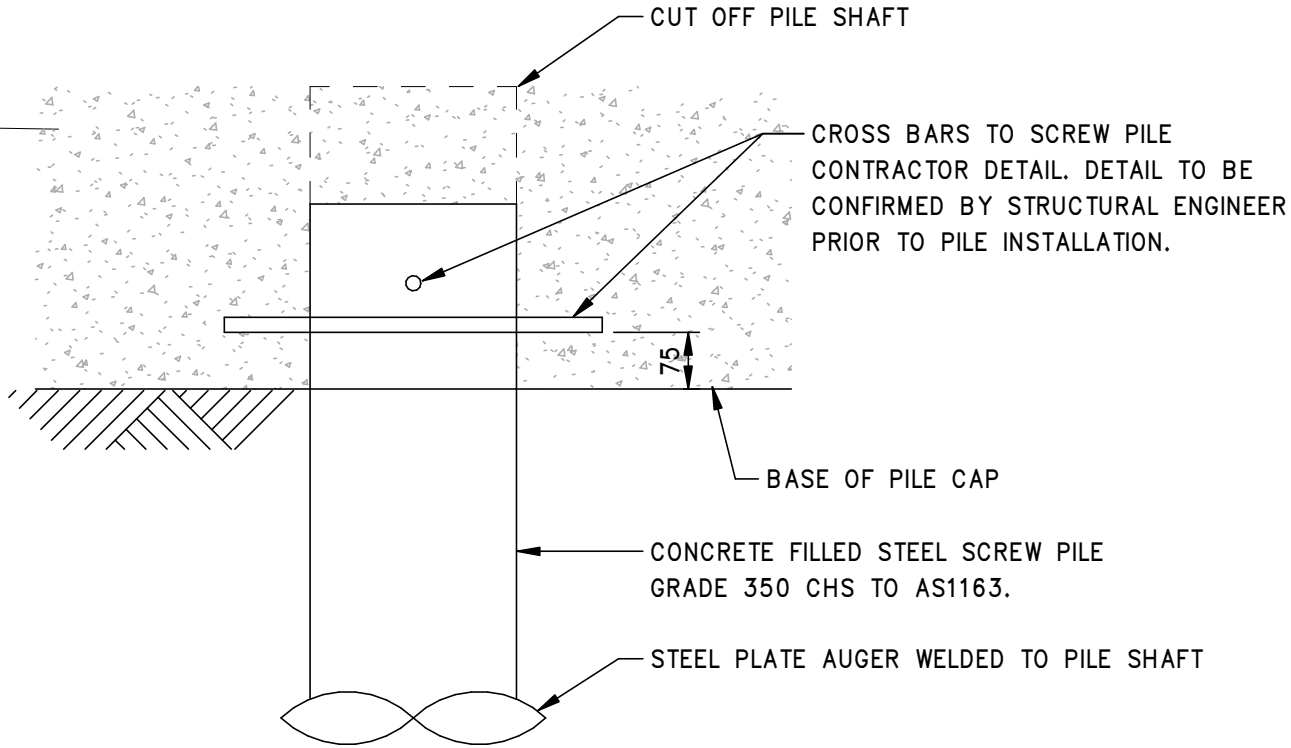
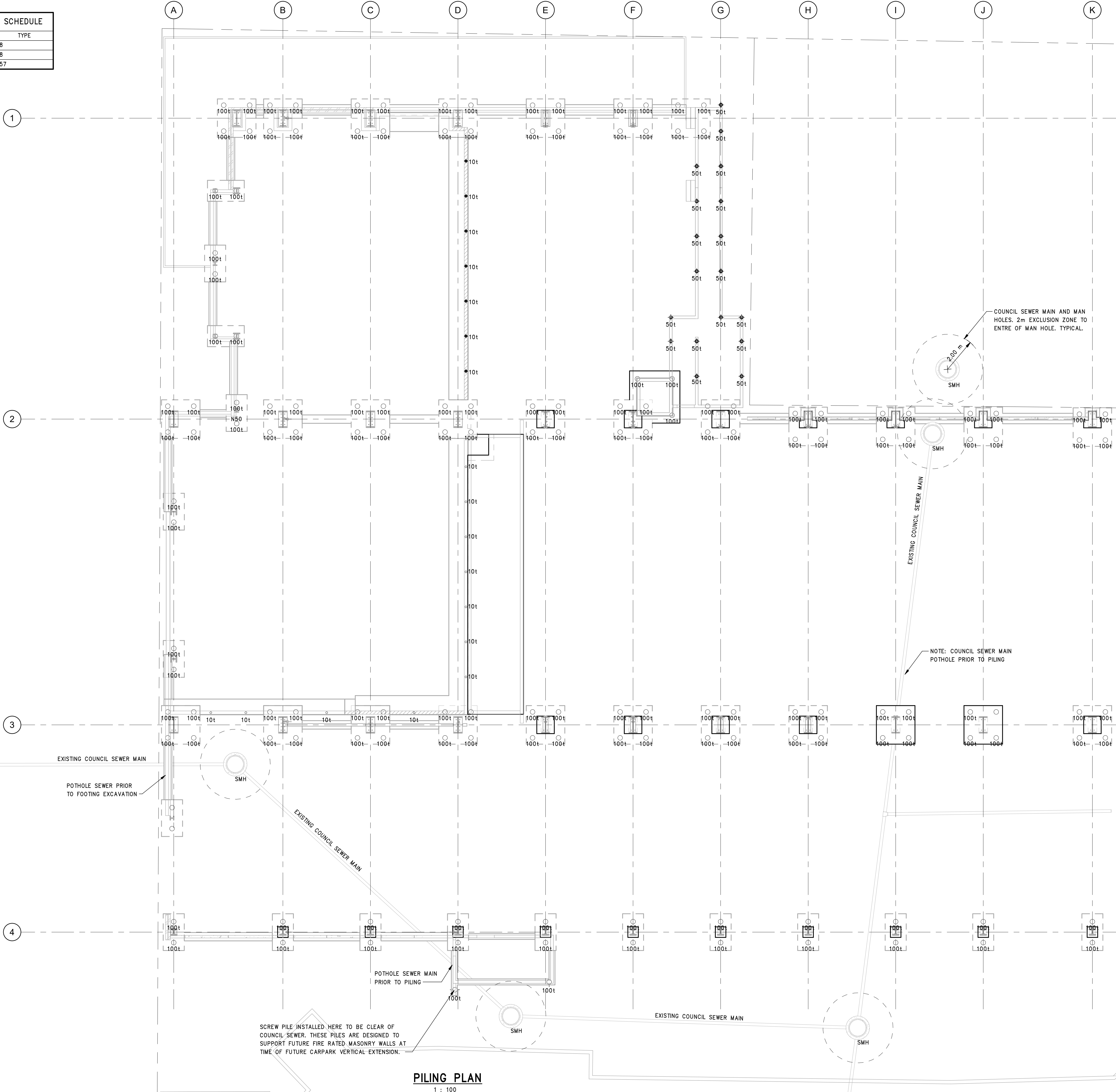
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Project No. 16048

Drawing No. S002

Amendment No.

SCREW PILE SCHEDULE		
PILE	TYPE	
10t	18	
50t	18	
100t	157	



SCREW PILE SCHEMATIC DETAIL
1 : 10

- SCREW PILE NOTES:
1. SCREW PILE DETAIL IS SCHEMATIC AND SUBJECT TO CONFIRMATION BY SCREW PILE CONTRACTOR.
 2. THE STRUCTURAL CONNECTION OF PILE TO PILE CAP, CONCRETE FILLING OF PILE, PILE SHAFT DIAMETER AND WALL THICKNESS, WELDING OF PILE SHAFT LENGTHS, AUGER PLATE DETAILS AND ALL OTHER PILE DETAILS AND ALL OTHER PILE DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO PILE INSTALLATION.
 3. STATIC LOAD TEST REQUIRED TO AT LEAST 1 PILE FOR CORRELATION AND CALIBRATION WITH DYNAMIC PILE TEST RESULTS.
 4. LOADS NOMINATED ON PLAN ARE SAFE WORKING LOAD IN TONNES.
 5. LOAD FACTOR FOR ULTIMATE LIMIT STATE LOADS = 1.33.
 6. LOADS ACCOUNT FOR FUTURE VERTICAL EXPANSION OF CARPARK ASSUMING SIMILAR CONSTRUCTION AND LOADINGS AS THE DESIGN PROVIDES IN THESE PLANS.
 7. REFER TO GEOTECHNICAL REPORT FOR PILING COMMENTARY AND ADVICE.
 8. PROVIDE A SURVEY BY REGISTERED SURVEYOR TO RECORD LOCATION OF PILE AT R.L. OF CUTOFF PILE SHAFT.
 9. DOCUMENT THE SURVEY RESULTS ON WORK AS EXECUTED PLAN AS A LAYER AND IDENTIFY ANY PILE THAT IS OUTSIDE THE PILE INSTALLATION TOLERANCE.
 10. PILE INSTALLATION TOLERANCE IS 75mm FROM DESIGN LOCATION.
 11. IN THE EVENT OF PILE LOCATED OUTSIDE INSTALLATION TOLERANCE HOLD FOOTING PILE CAP CONSTRUCTION AND OBTAIN STRUCTURAL ENGINEER REVIEW.

PILING PLAN
1 : 100

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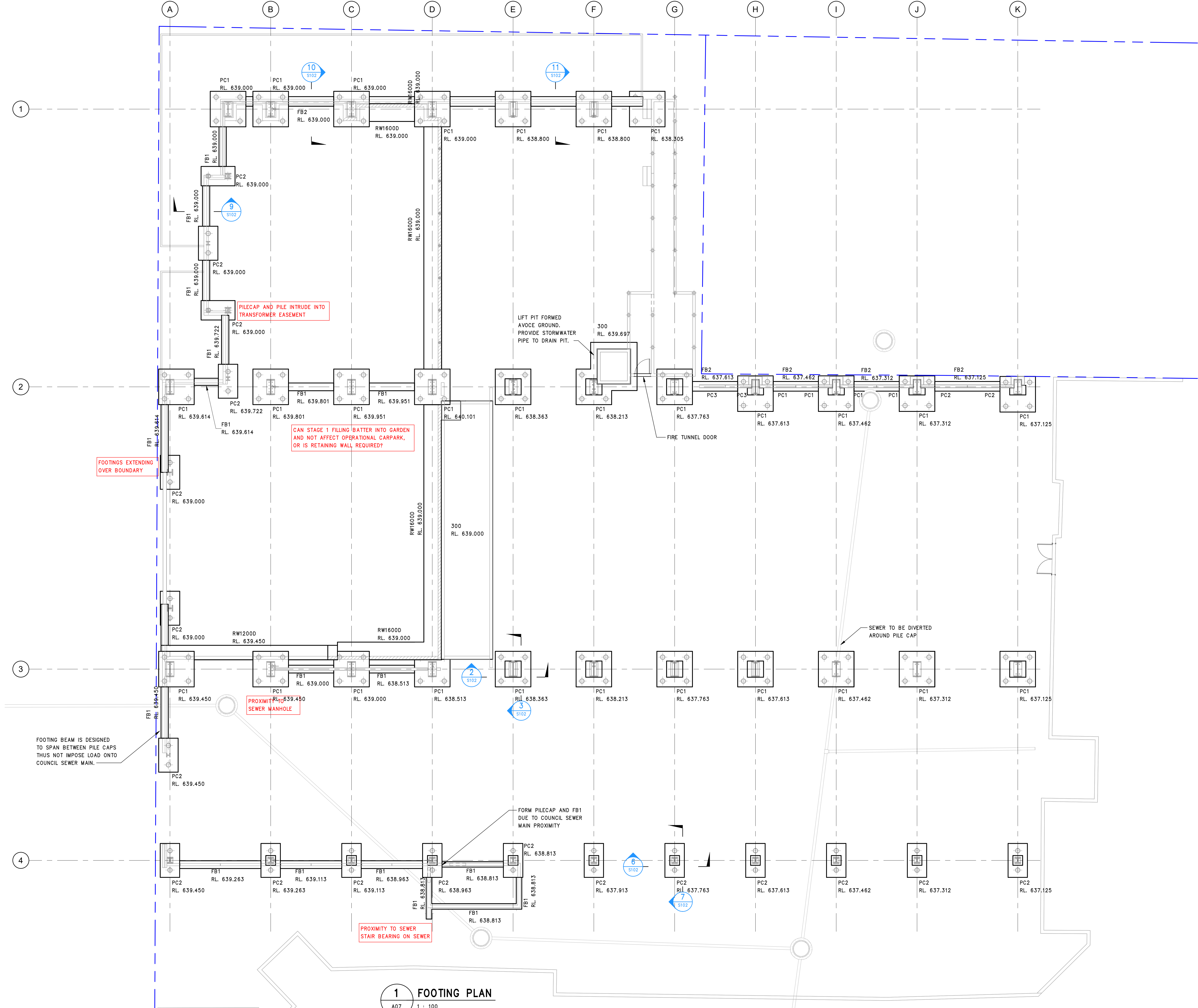
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Surveyed				Datum			
Drawn		PJB	Designed	GPB	Approved	GPB	
Checked		GPB	Date	Issue Date	No. of dwgs		

Project:			Title:	PILING PLAN	Project No. 16048				
WORKERS CLUB CARPARK									
1 McKELL PL GOULBURN									
Client:		GOULBURN WORKERS CLUB		Drawing No. S100					

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FOOTING SCHEDULE	
MARK	TYPE
300	<varies>
650	650
FB1	600 x 450
FB2	600 x 600
PC1	1250 x 2200 x 2200
PC2	1000 x 1200 x 2100
RW1200D	RW1200D
RW1200DS	RW1200D 400 Step
RW1600D	RW1600D

NOTE: WHERE VERTICAL BRACING IS INSTALLED
PROVIDE TIE BEAM BETWEEN THE 2 PILE CAPS



1 FOOTING PLAN
A07 1 : 100

REV.	DATE	REVISION
A	12.02.25	CONSTRUCTION CERTIFICATE
P4	22.11.23	COORDINATION
P3	30.10.23	PRELIMINARY
P2	22.09.23	PRELIM
P1	12.09.23	PIILING AND FOOTINGS PRELIMINARY

PJB	GPB
PJB	GPB
PJB	GPB
PJB	GPB
PJB	GPB
PJB	GPB
DR.BY	AP.BY

de Groot & Benson
Consulting Engineers & Planners

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236 Harbour Drive,
Coffs Harbour NSW

Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgbc.com.au

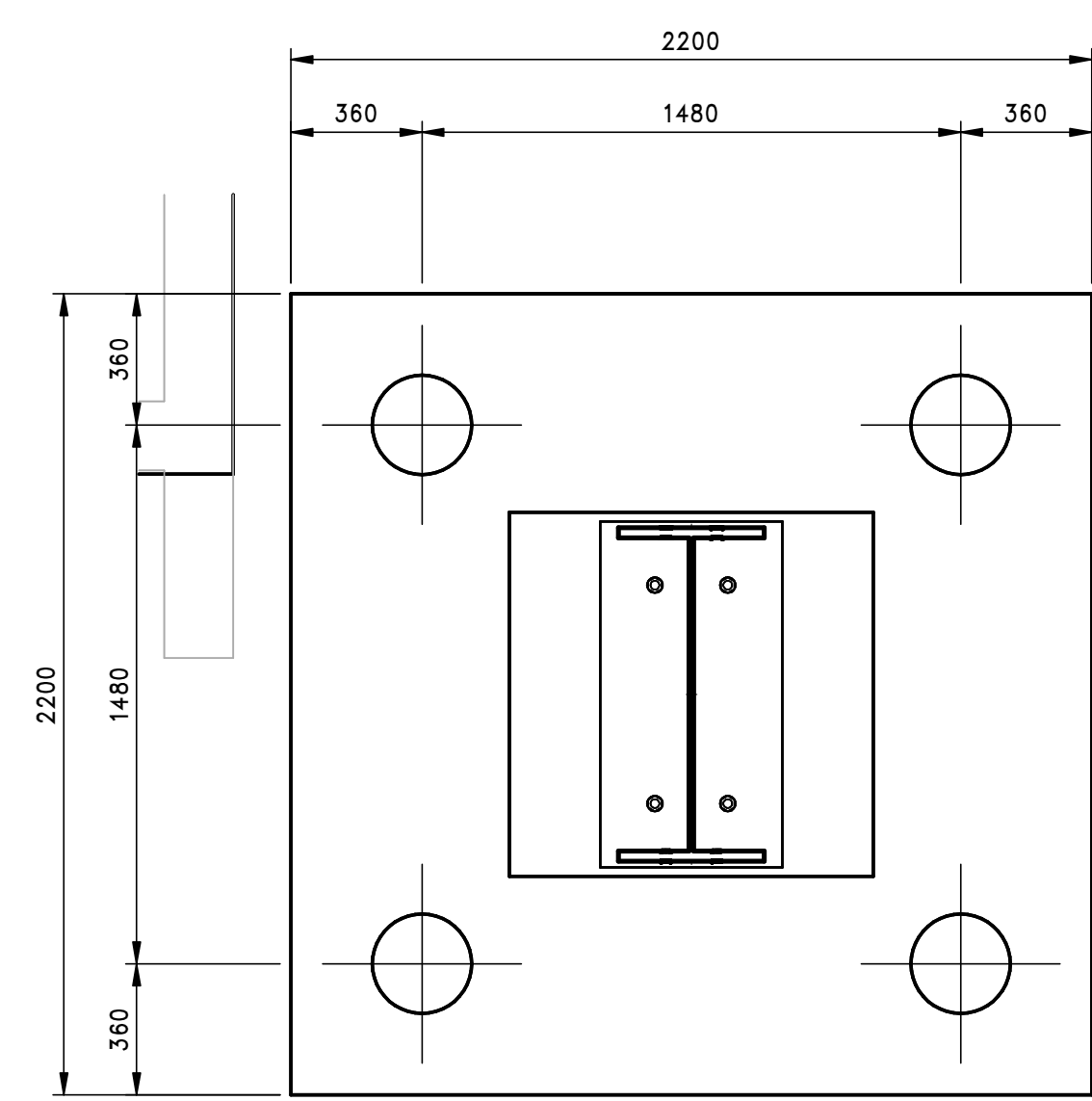
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Surveyed		Datum	
Drawn	PJB	Designed	GPB
Checked	GPB	Approved	GPB
Date		Issue Date	
No. of dwgs			

Project:
WORKERS CLUB CARPARK
1 McKELL PL
GOULBURN

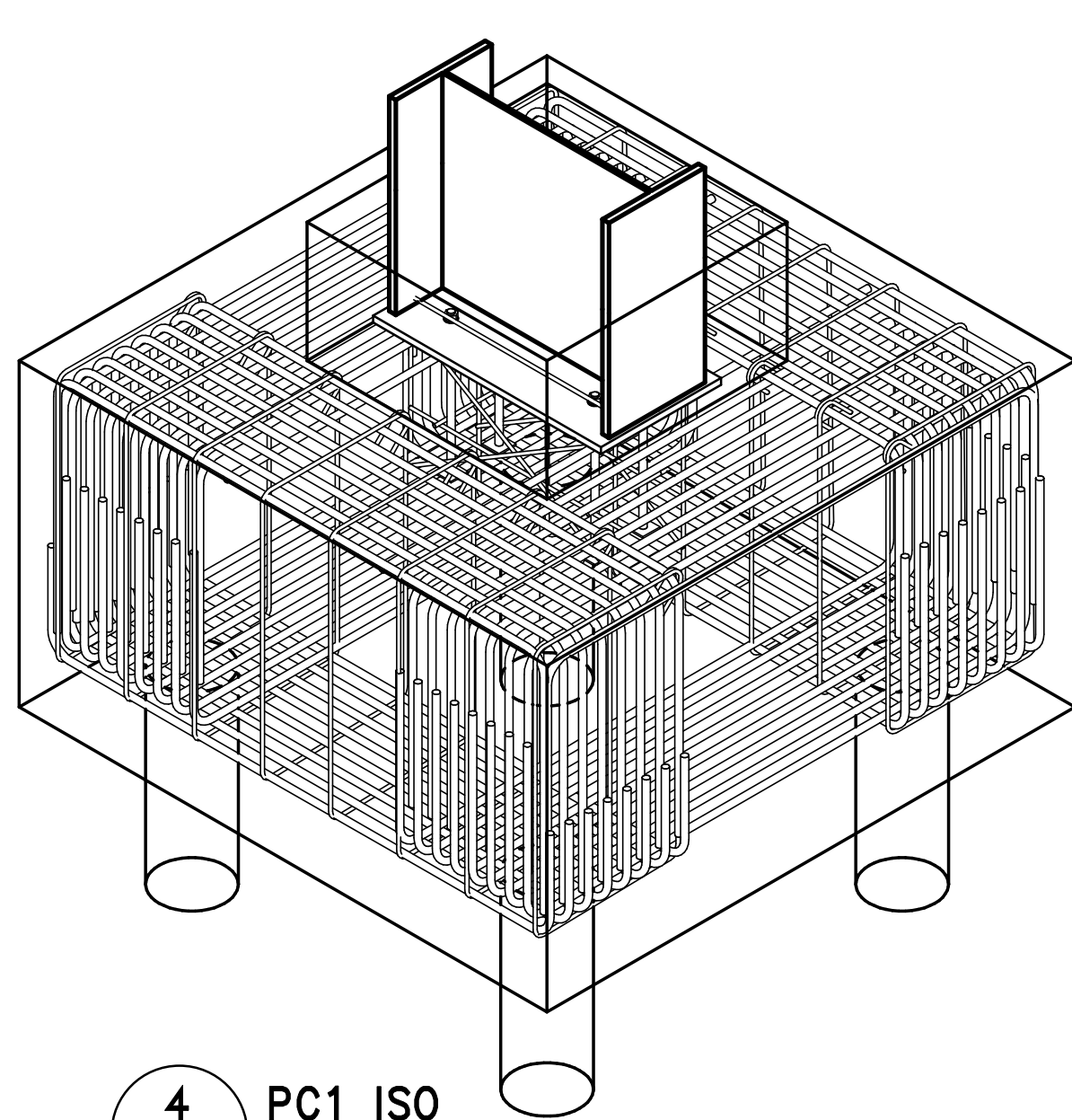
Client:
GOULBURN WORKERS CLUB

Title:	FOOTING PLAN	Project No.	16048
		Drawing No.	S101
		Amendment No.	

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1 PC1 PLAN
1 : 20

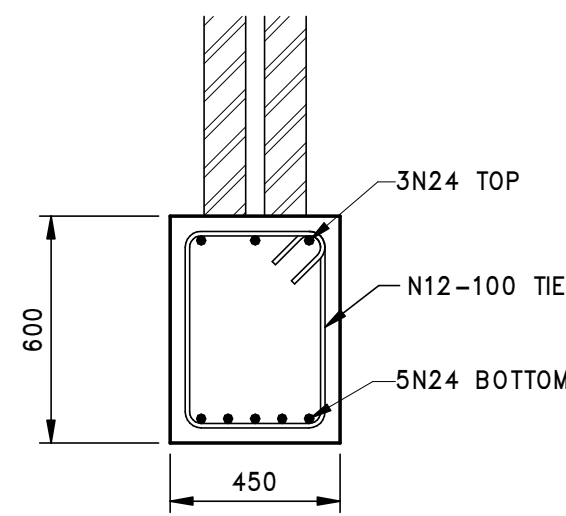


4 PC1 ISO

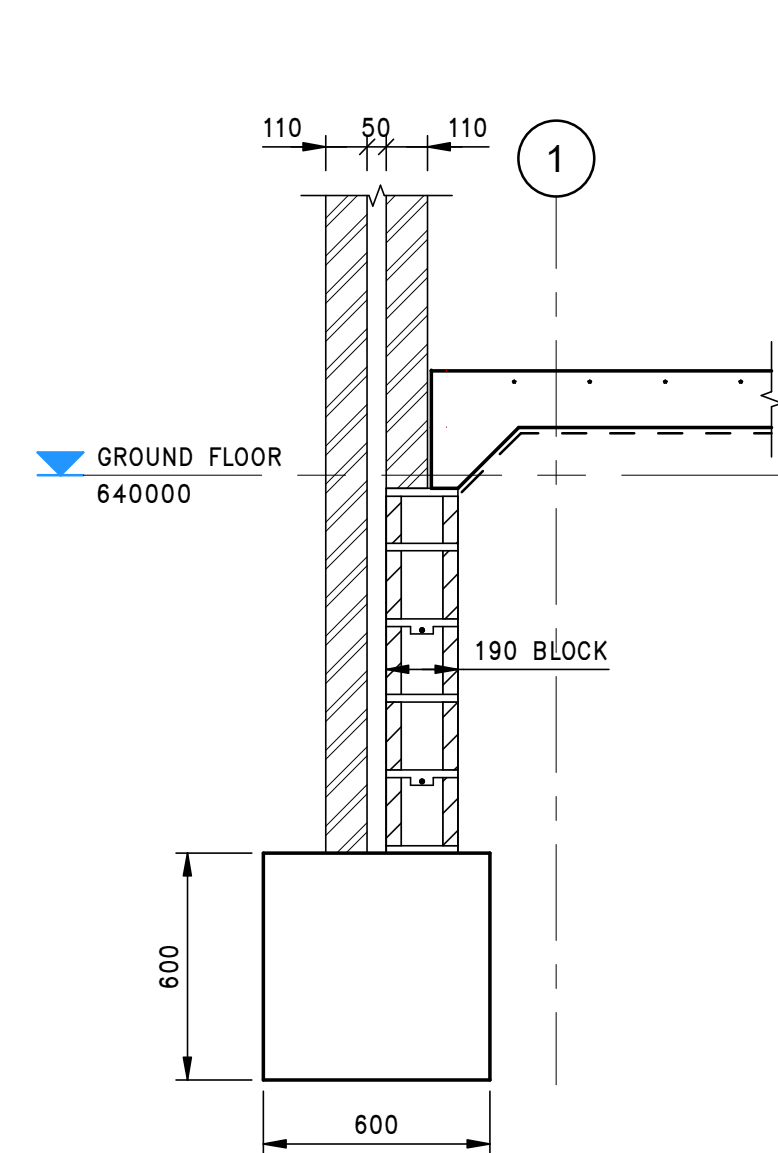
FOOTING BACKFILL

1. BACKFILL ABOVE PILE CAPS WITH ROADBASE DGB20.
2. COMPACTED TO 98% DRY DENSITY.
3. TYPICAL UNDER CONCRETE OR ASPHALT PAVEMENTS.
4. DO NOT USE GENERAL FILL UNDER CONCRETE OR ASPHALT PAVEMENTS WHEN BACKFILLING PILECAPS AND FOOTINGS.

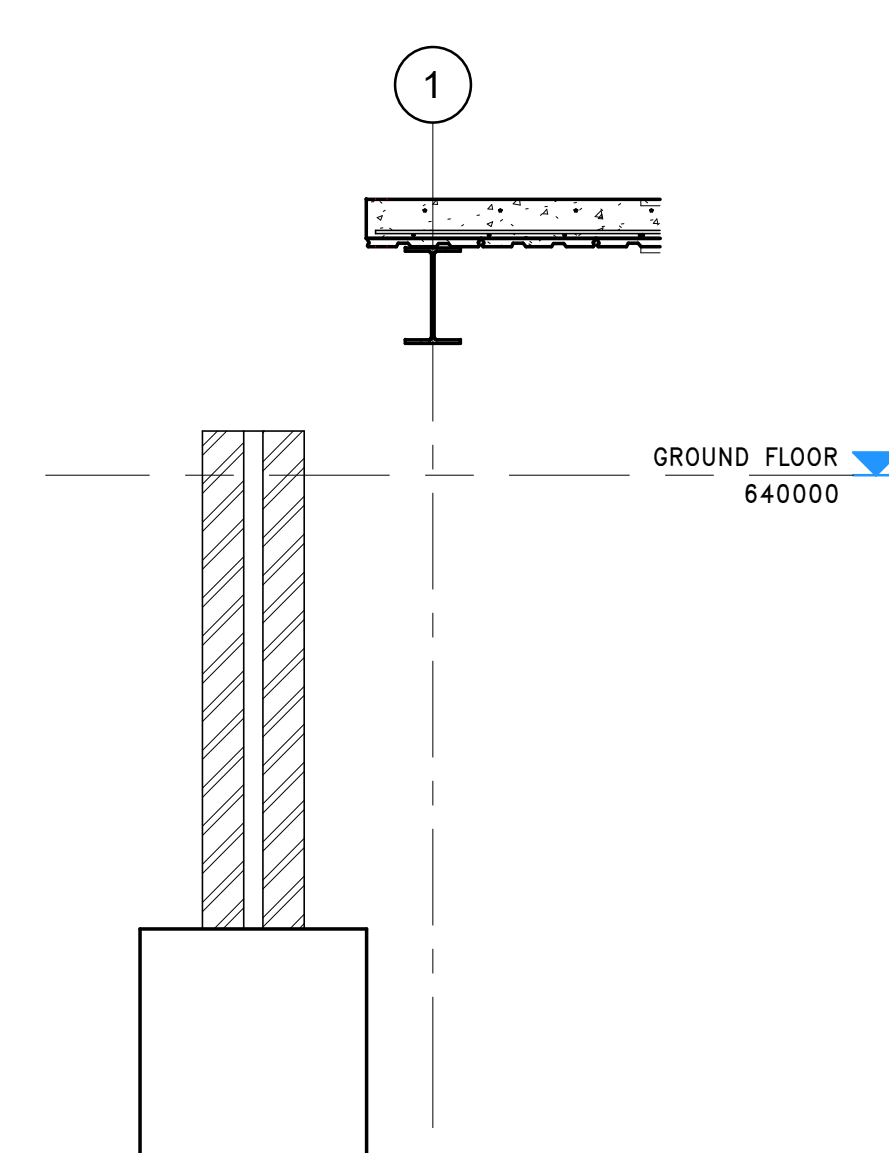
NOTE: SOME PILECAPS PROJECT PARTLY ABOVE GROUND SURFACE AND WILL REQUIRE FORMWORK. SOME PILECAPS HAVE STEEL BEAMS BEARING ONTO THE PILECAP TOP SURFACE.



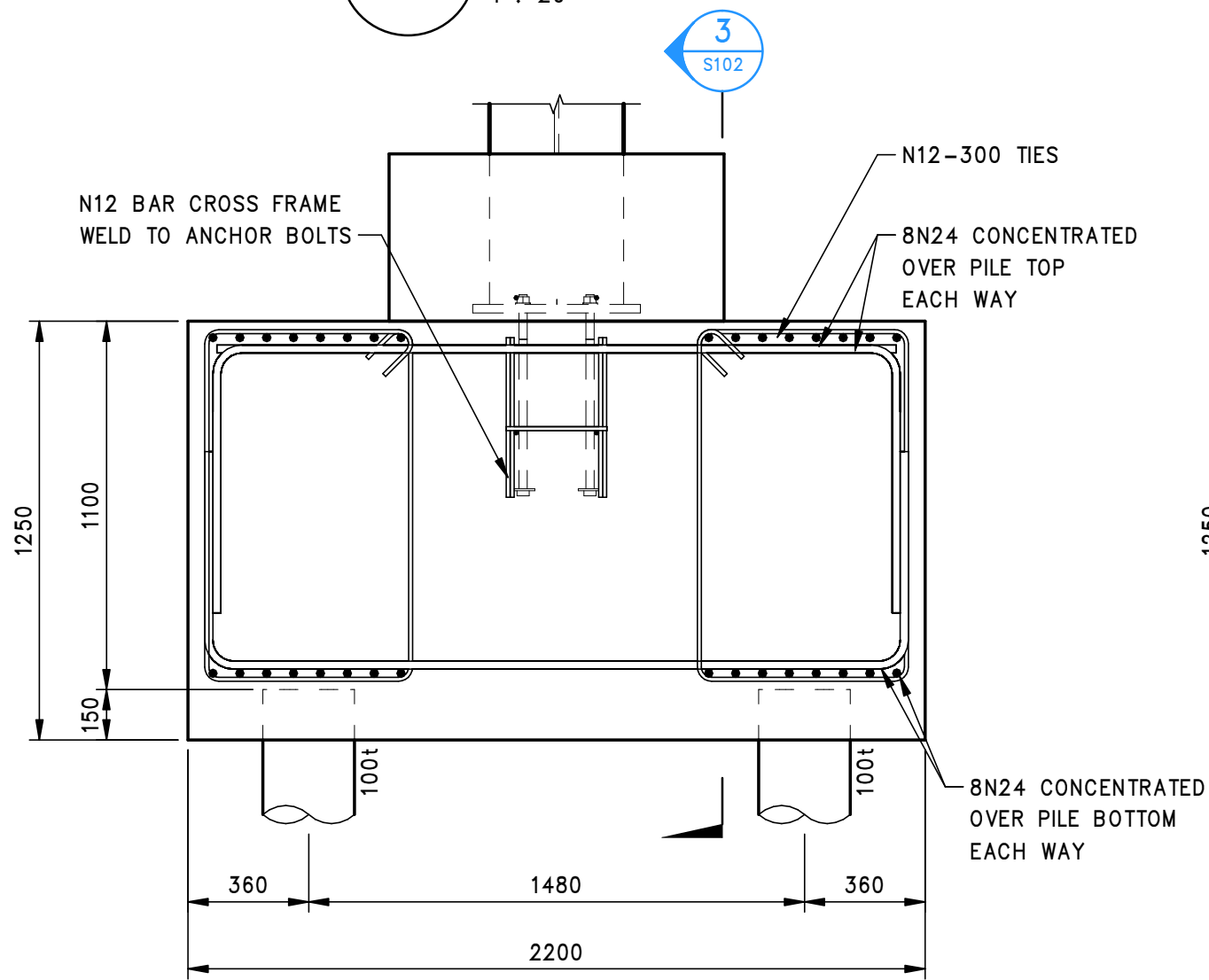
9 FB1 DETAIL
S101 1 : 20



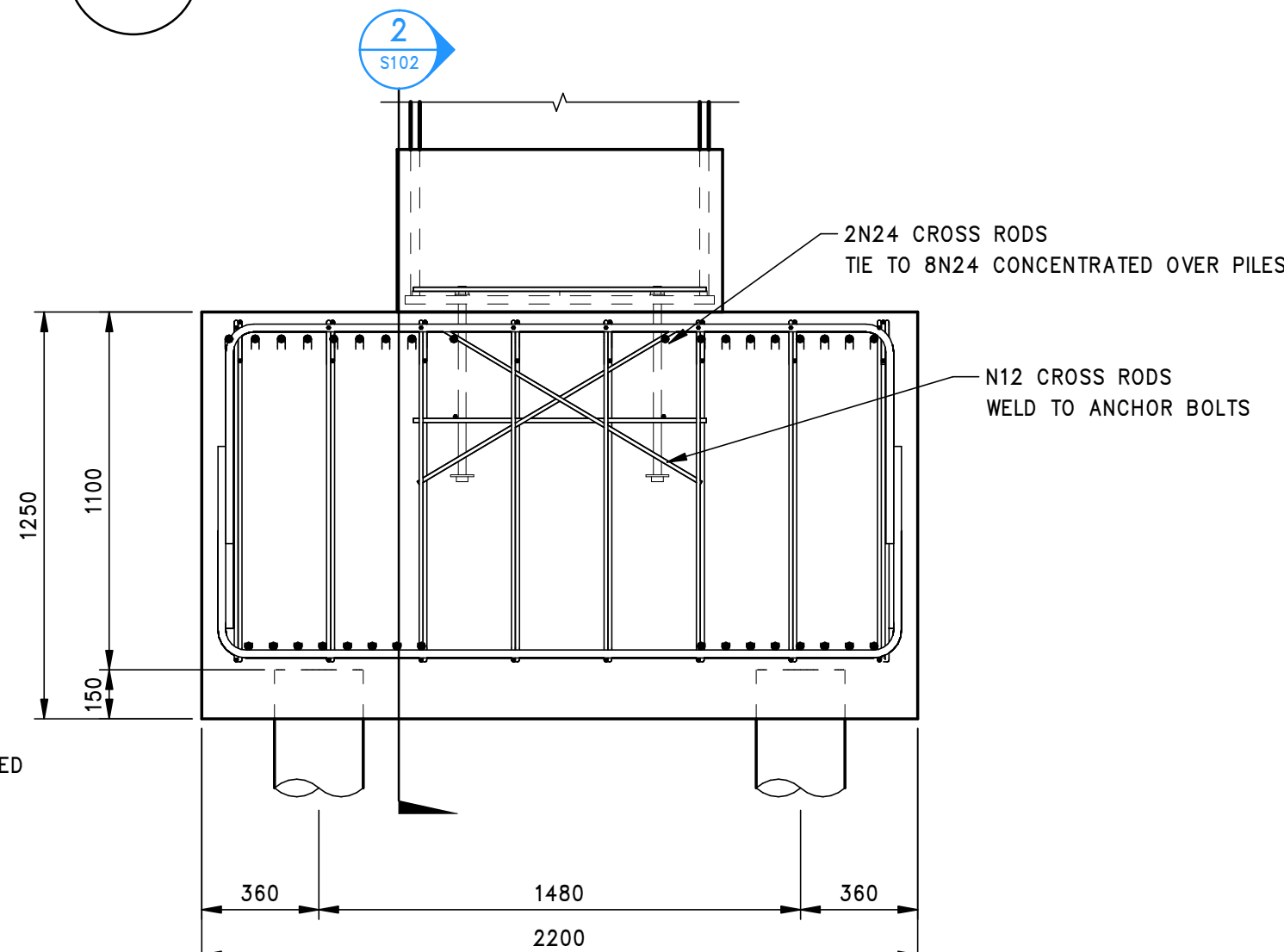
10 FB2 (GRID 1/B-D)
S101 1 : 20



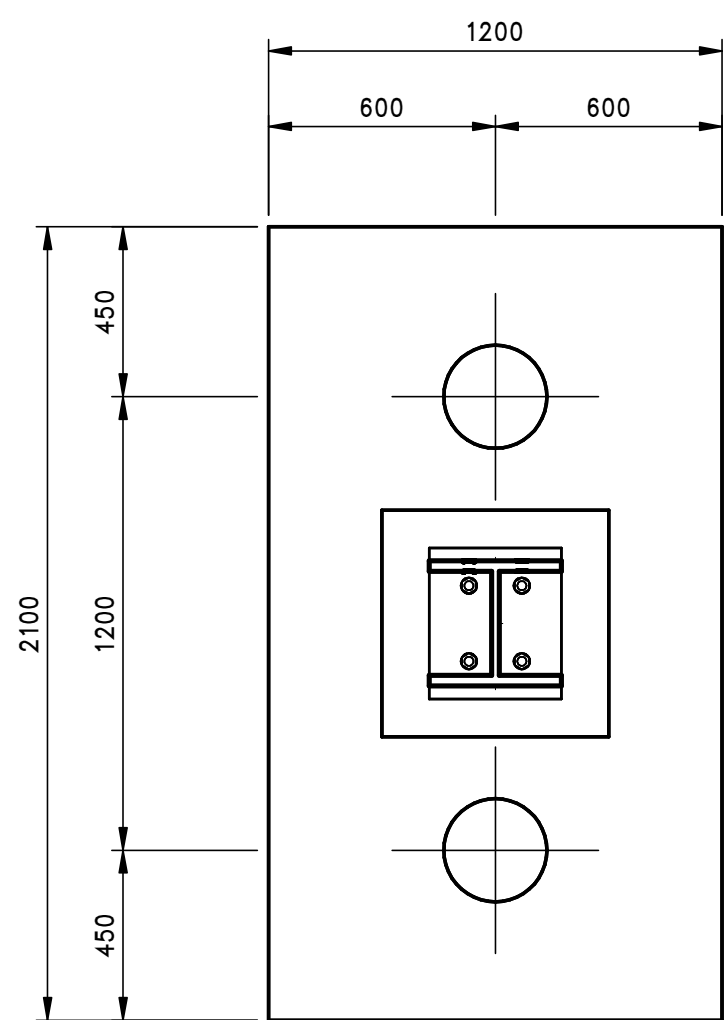
11 FB2 (GRID 1/B-D)1
S101 1 : 20



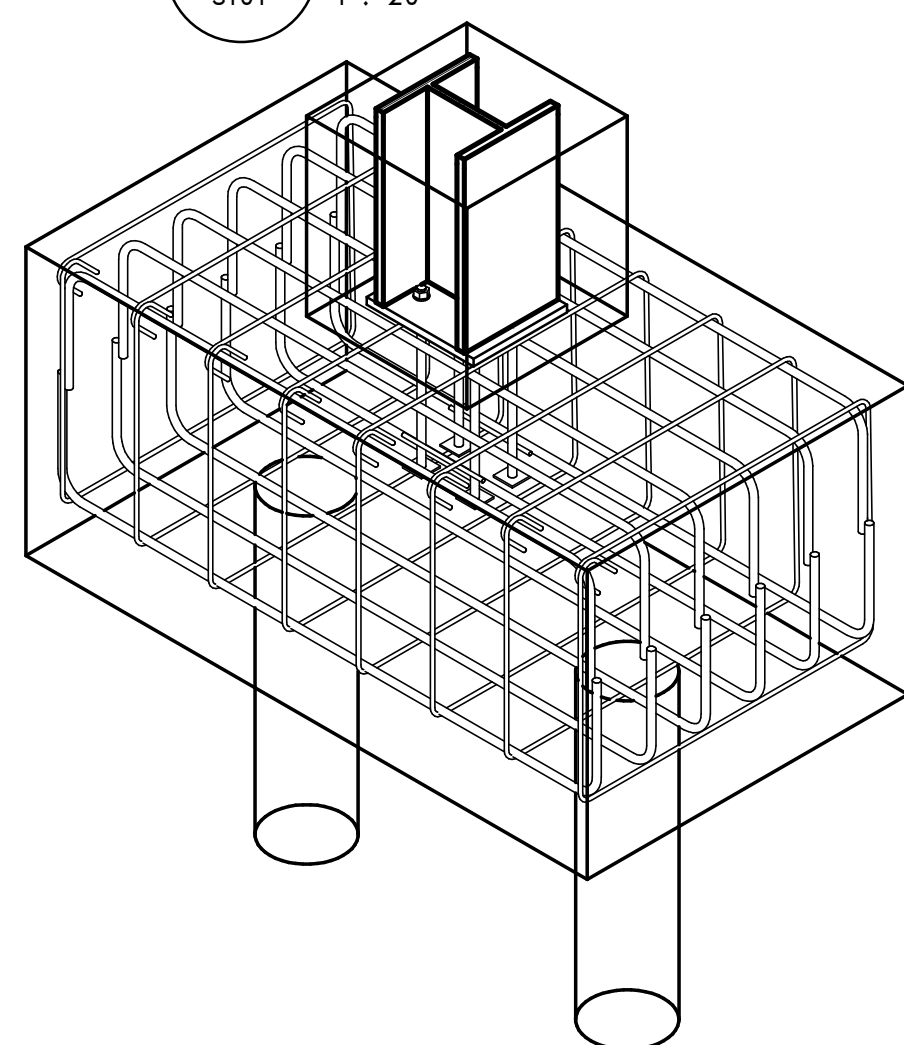
2 PC1 SECTION A
A09 1 : 20



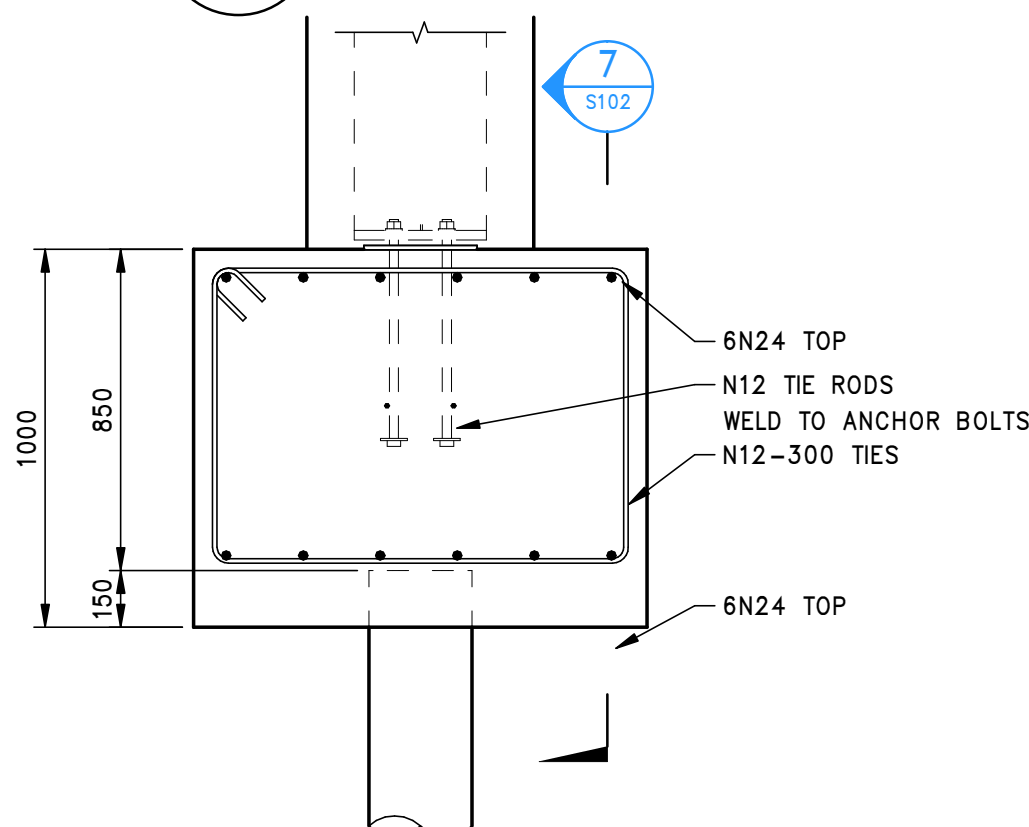
3 PC1 SECTION B
S101 1 : 20



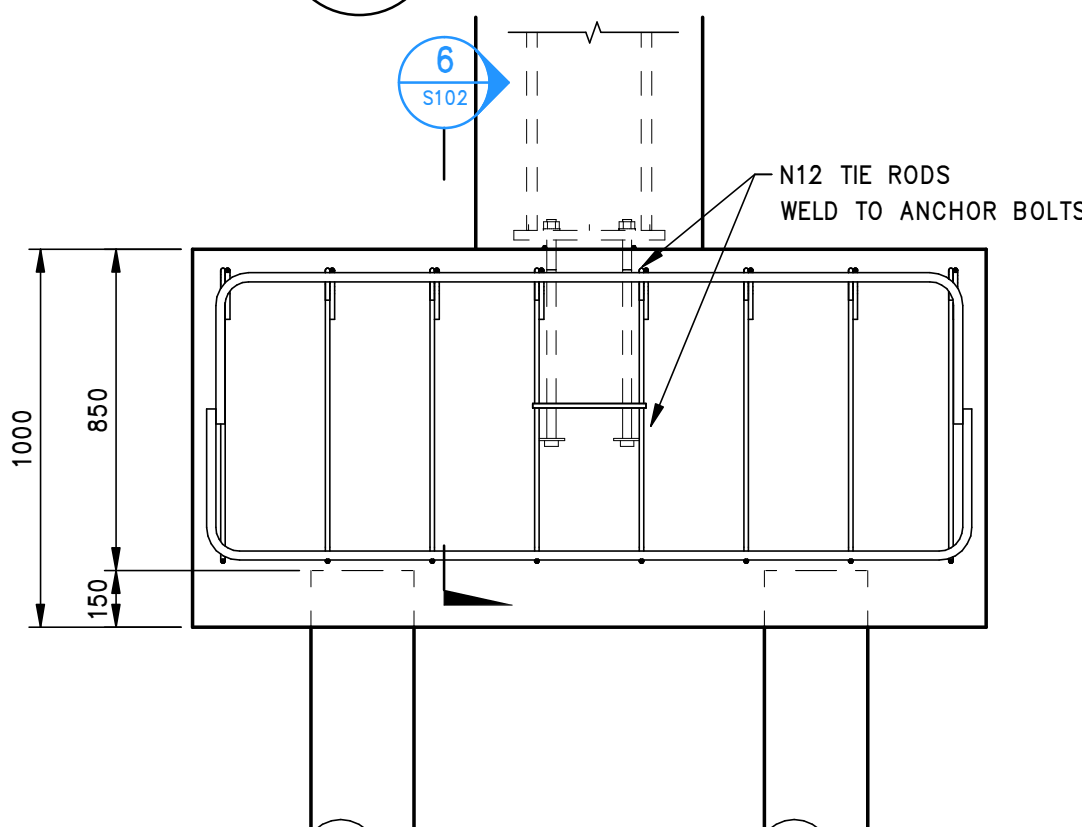
5 PC2 PLAN
1 : 20



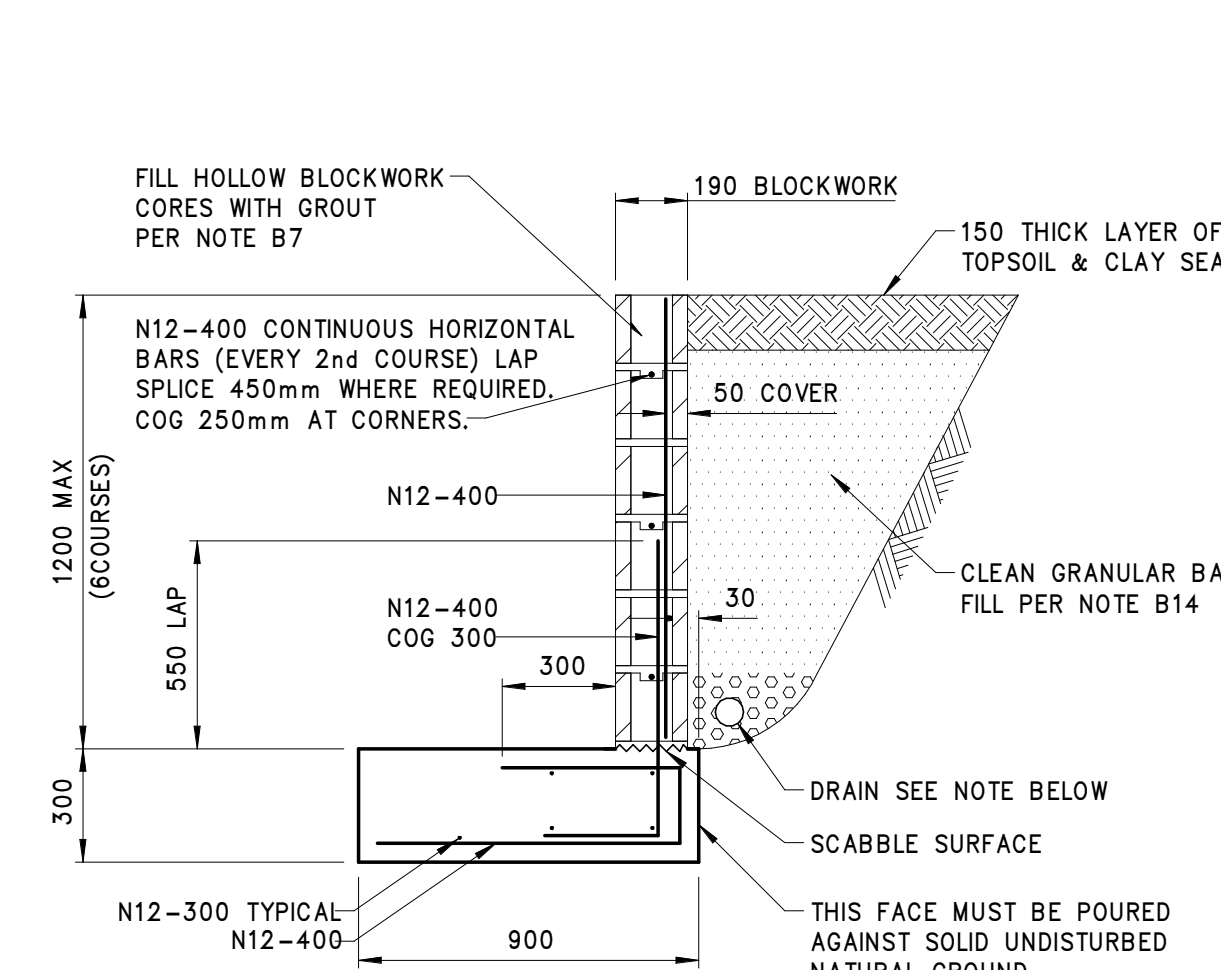
8 PC2 ISO



6 PC2 SECTION A
S101 1 : 20

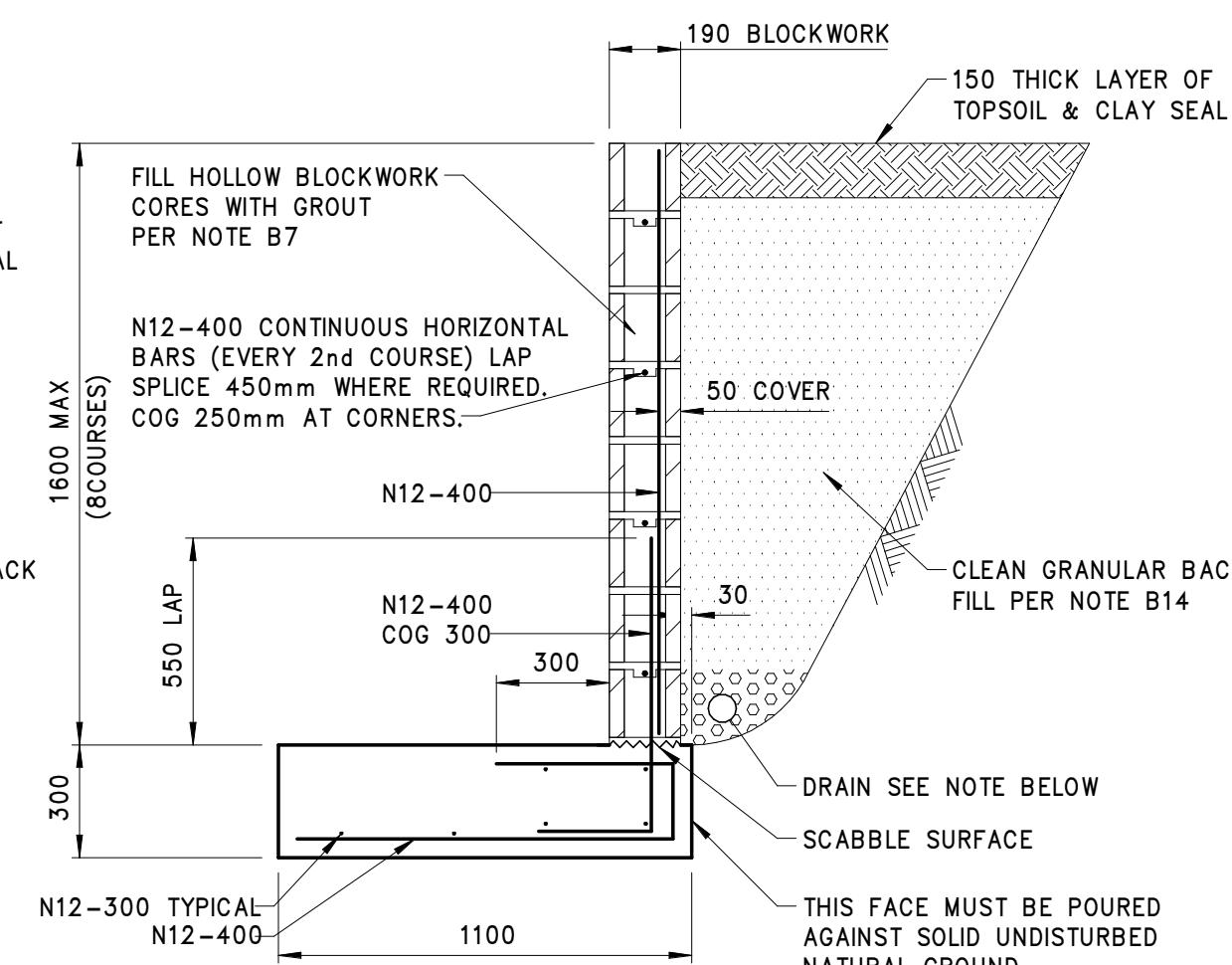


7 PC2 SECTION B
S101 1 : 20



1200 HIGH RETAINING WALL
RW1200D

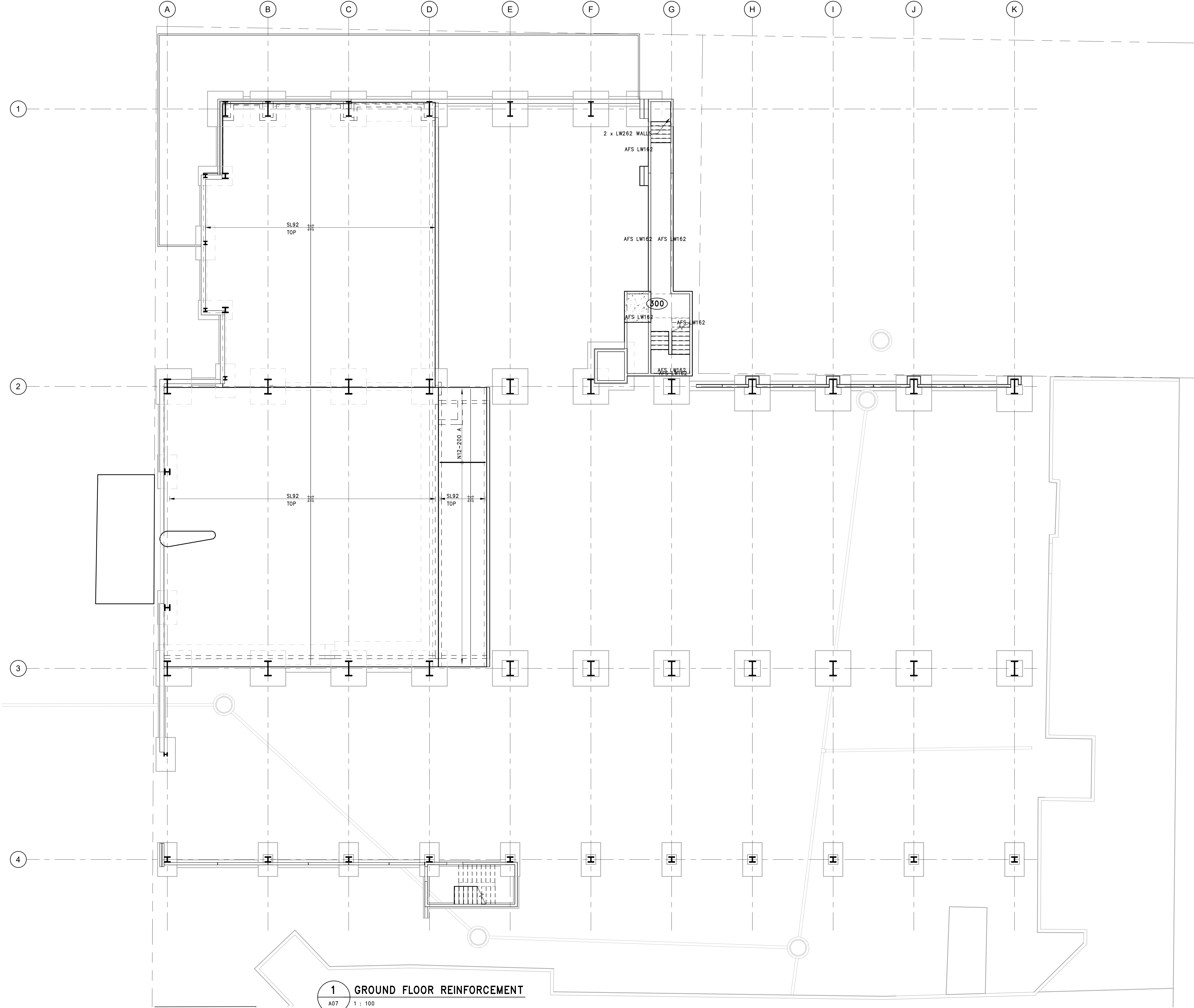
NOTE: PROVIDE Ø90 SLOTTED PVC DRAIN PIPE WRAPPED IN FILTER CLOTH INSTALLED IN SURROUND OF WELL GRADED RIVER GRAVEL. DISCHARGE BY GRAVITY INTO STORMWATER DRAINAGE SYSTEM.



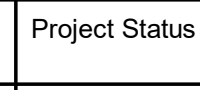
1600 HIGH RETAINING WALL
RW1600D

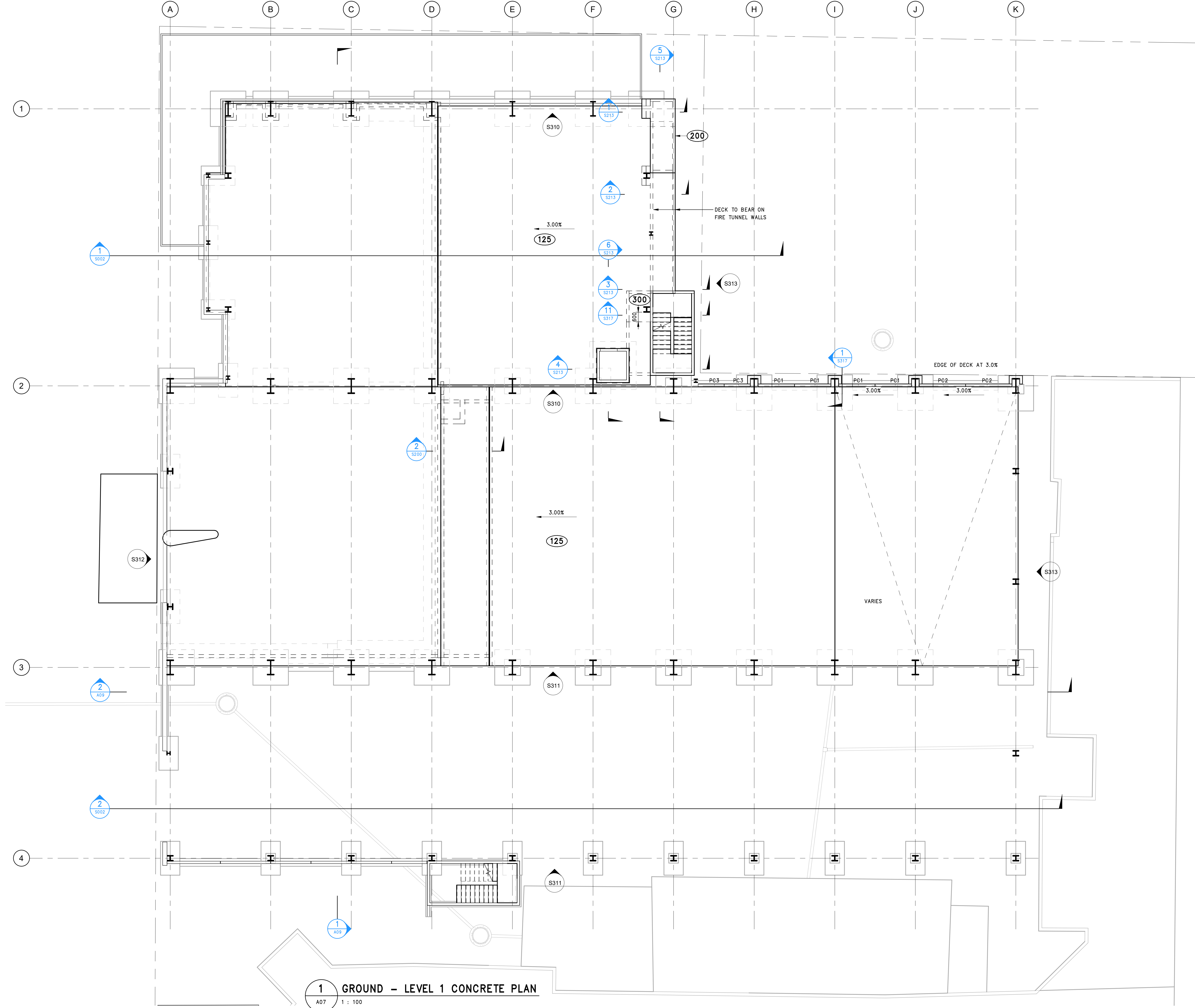
NOTE: PROVIDE Ø90 SLOTTED PVC DRAIN PIPE WRAPPED IN FILTER CLOTH INSTALLED IN SURROUND OF WELL GRADED RIVER GRAVEL. DISCHARGE BY GRAVITY INTO STORMWATER DRAINAGE SYSTEM.

A P3 P2 P1 REV		12.02.25 22.11.23 30.10.23 22.09.23 DATE	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY PRELIM REVISION		PJB PJB PJB PJB DR.BY	GPB GPB GPB GPB AP.BY	de Groot & Benson Consulting Engineers & Planners			A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgb.com.au	Scale 1 : 20 Surveyed Drawn PJB Checked GPB		Project Status PRELIMINARY Datum Designed GPB Issue Date		Approved GPB No. of dwgs		Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN Client: GOULBURN WORKERS CLUB			Title: FOOTING DETAILS	Project No. 160 Drawing No. S1	Amendment No.
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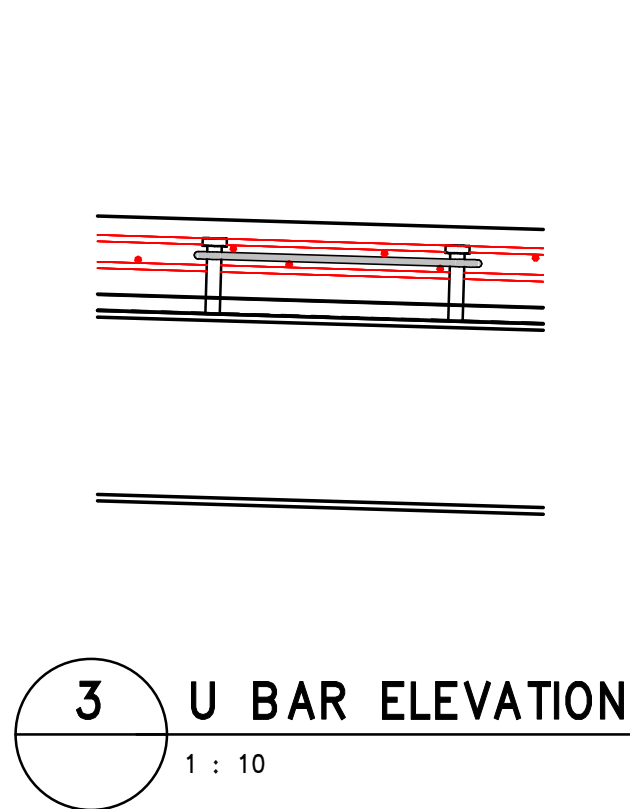
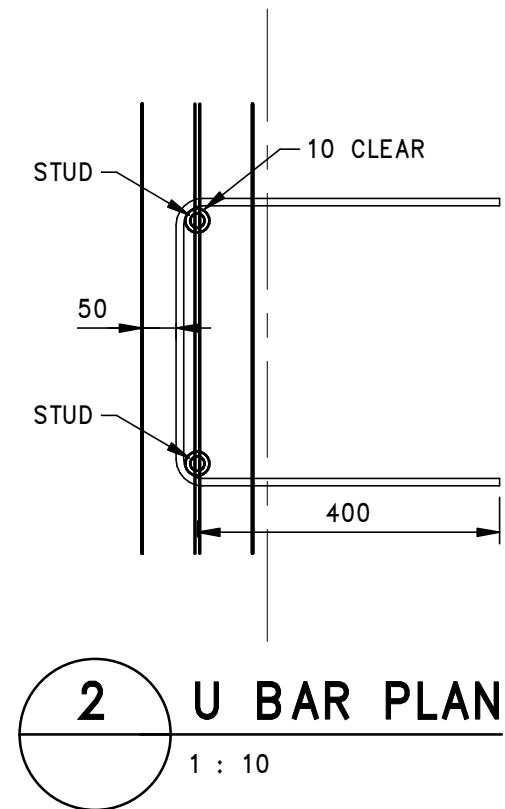
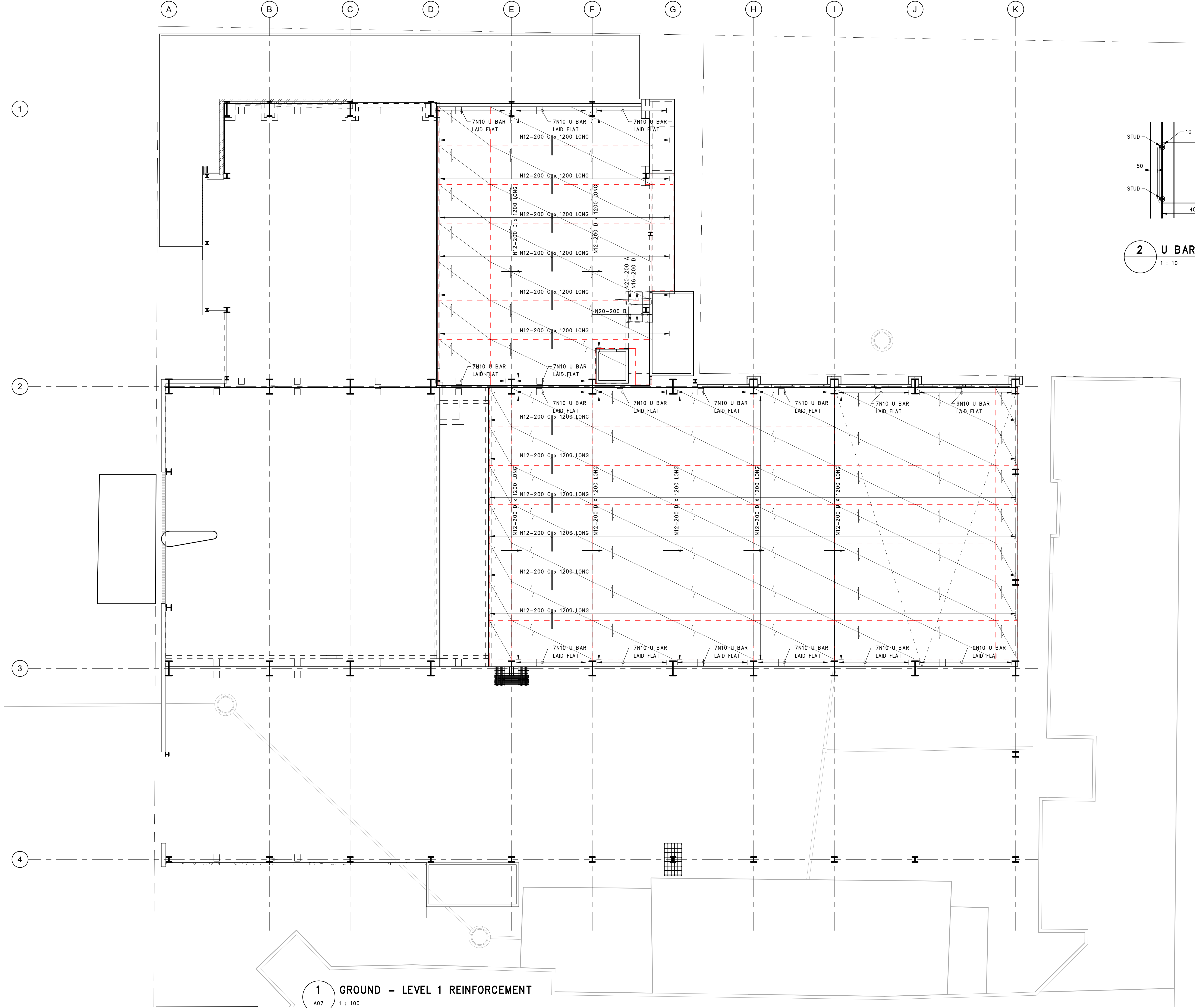
1 GROUND FLOOR REINFORCEMENT
A07 1 : 100

							de Groot & Benson				A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW		<table><tr><td>Scale</td><td colspan="2">1 : 100</td><td colspan="2">Project Status PRELIMINARY</td></tr><tr><td colspan="2">Surveyed</td><td colspan="4">Datum</td></tr><tr><td>Drawn</td><td>PJB</td><td>Designed</td><td>GPB</td><td>Approved</td><td>GPB</td></tr><tr><td>Checked</td><td>GPB</td><td>Date</td><td>Issue Date</td><td colspan="2">No. of dwgs</td></tr></table>			Scale	1 : 100		Project Status PRELIMINARY		Surveyed		Datum				Drawn	PJB	Designed	GPB	Approved	GPB	Checked	GPB	Date	Issue Date	No. of dwgs		<table><tr><td>Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN</td><td rowspan="2"></td><td rowspan="2">Title: GROUND FLOOR REINFORCEMENT PLAN</td><td>Project No. 16048</td></tr><tr><td>Client: GOULBURN WORKERS CLUB</td><td>Drawing No. S201</td></tr></table>			Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN		Title: GROUND FLOOR REINFORCEMENT PLAN	Project No. 16048	Client: GOULBURN WORKERS CLUB	Drawing No. S201	© COPYRIGHT 2023 The design and details shown on these drawings are applicable to this project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written consent of DE GROOT & BENSON Pty Ltd with whom copyright resides.			Amendment No. A	
Scale	1 : 100		Project Status PRELIMINARY																																																	
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Drawn	PJB	Designed	GPB	Approved	GPB																																															
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Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN		Title: GROUND FLOOR REINFORCEMENT PLAN	Project No. 16048																																																	
Client: GOULBURN WORKERS CLUB			Drawing No. S201																																																	
A P2 P1 REV.	12.02.25 22.11.23 30.10.23 DATE	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION		PJB PJB PJB PJB	GPB GPB GPB GPB	Consulting Engineers & Planners		DR.BY AP.BY																																												



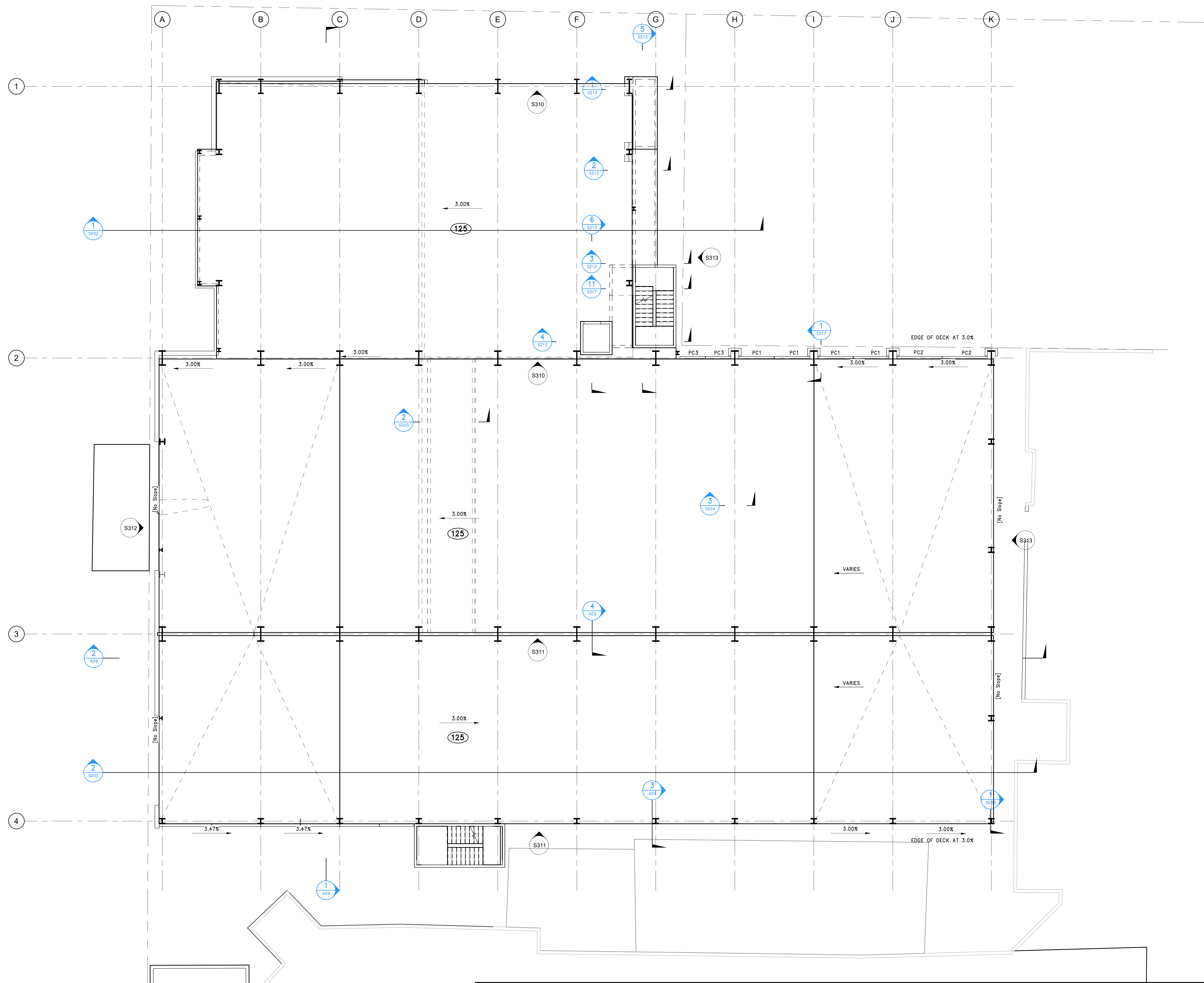
1 GROUND – LEVEL 1 CONCRETE PLAN
A07 1 : 100

A		12.02.25	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY PRELIM REVISION	PJB PJB PJB PJB PJB	GPB GPB GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners		A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au	Scale 1 : 100		Project Status PRELIMINARY			Project: WORKERS CLUB CARPARK 1 MCKELL PL GOULBURN	Title: GROUND-LEVEL 1 CONCRETE PLAN	Project No. 16048		
P3		22.11.23							Surveyed		Datum						Drawing No. S202	
P2		30.10.23							Drawn PJB		Designed GPB		Approved GPB					
P1		22.09.23							Checked GPB		Date Issue Date		No. of dwgs					
REV.	DATE												DR. BY AP. BY					



1 GROUND - LEVEL 1 REINFORCEMENT
A07 1 : 100

A P2 REV. 12.02.25 22.11.23 30.10.23 DATE			CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION			PJB PJB PJB PJB		GPB GPB GPB GPB		de Groot & Benson Consulting Engineers & Planners				A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au		Scale			As indicated			Project Status			PRELIMINARY			 Project: WORKERS CLUB CARPARK - 1 MCKELL PL GOULBURN Client: GOULBURN WORKERS CLUB			Title: GROUND-LEVEL 1 REINFORCEMENT			Project No. 16048																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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P2	30.10.23	PRELIMINARY	PJB	GPB
P1	22.09.23	PRELIM	PJB	GPB
REV.	DATE	REVISION	DR BY	AP BY

de Groot & Benson

Consulting Engineers & Planners

A.C.N. 052 300 571
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Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgdb.com.au

Scale		1 : 100		Project Status PRELIMINARY	
Surveyed				Datum	
Drawn	PJB	Designed	GPB	Approved	GPB
Checked	GPB	Date	Issue Date	No. of dwgs	

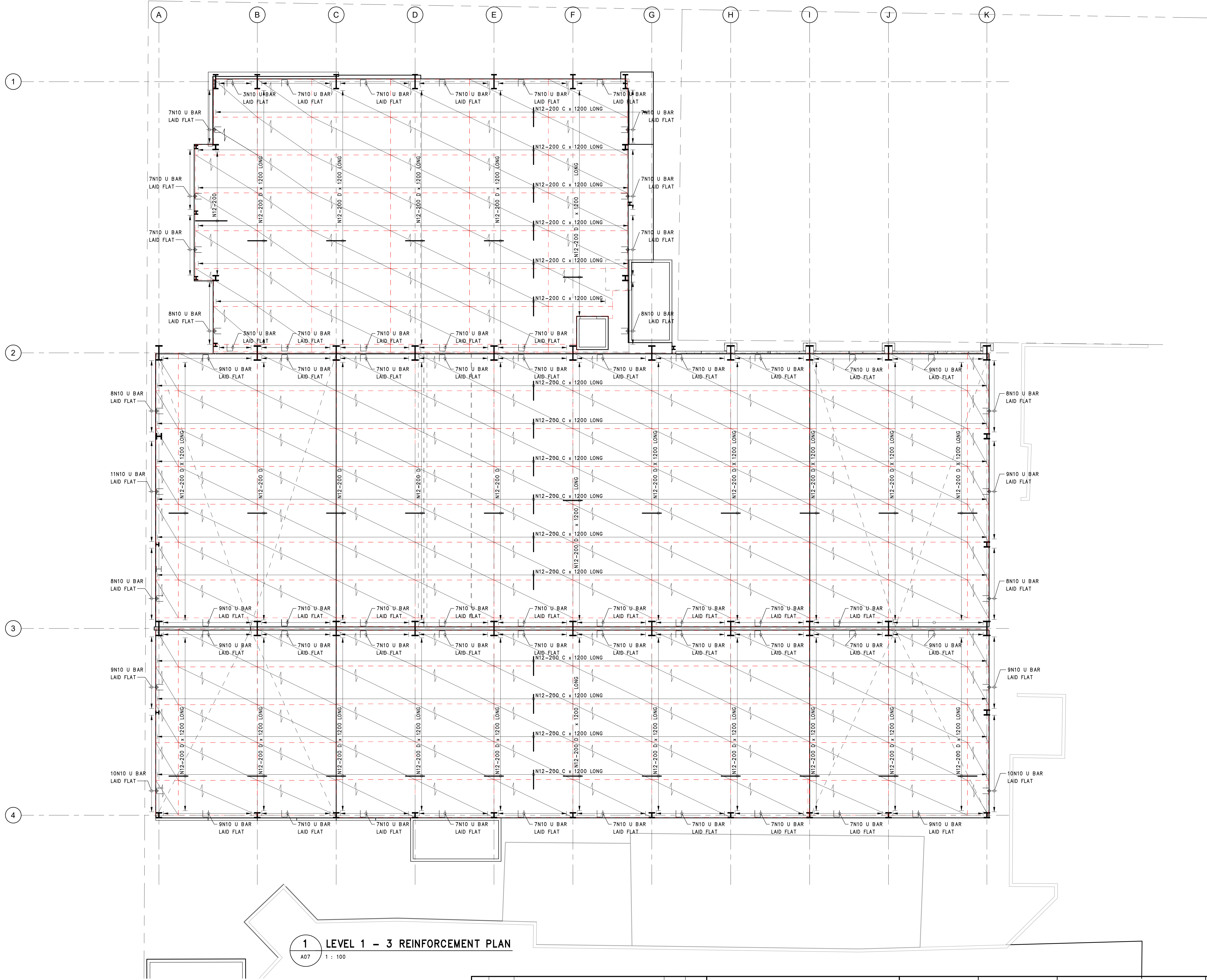
WORKERS CLUB CARPARK
1 MCKELL PL
GOULBURN

Client:
GOULBURN WORKERS CLUB

Title: **LEVEL 1-3 CONCRETE PLAN**

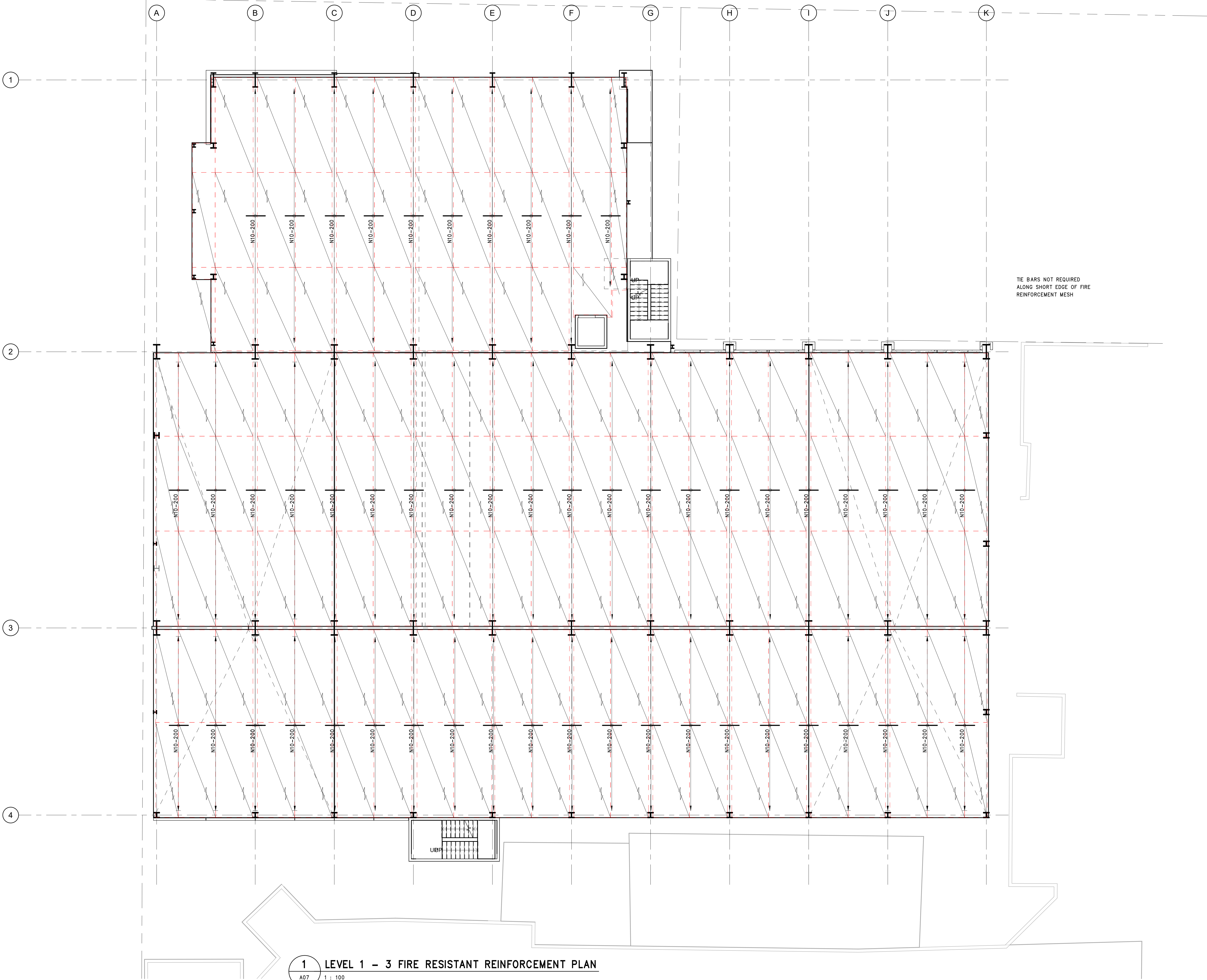
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Project No.	16048
Drawing No.	S205
Amendment No.	A

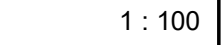


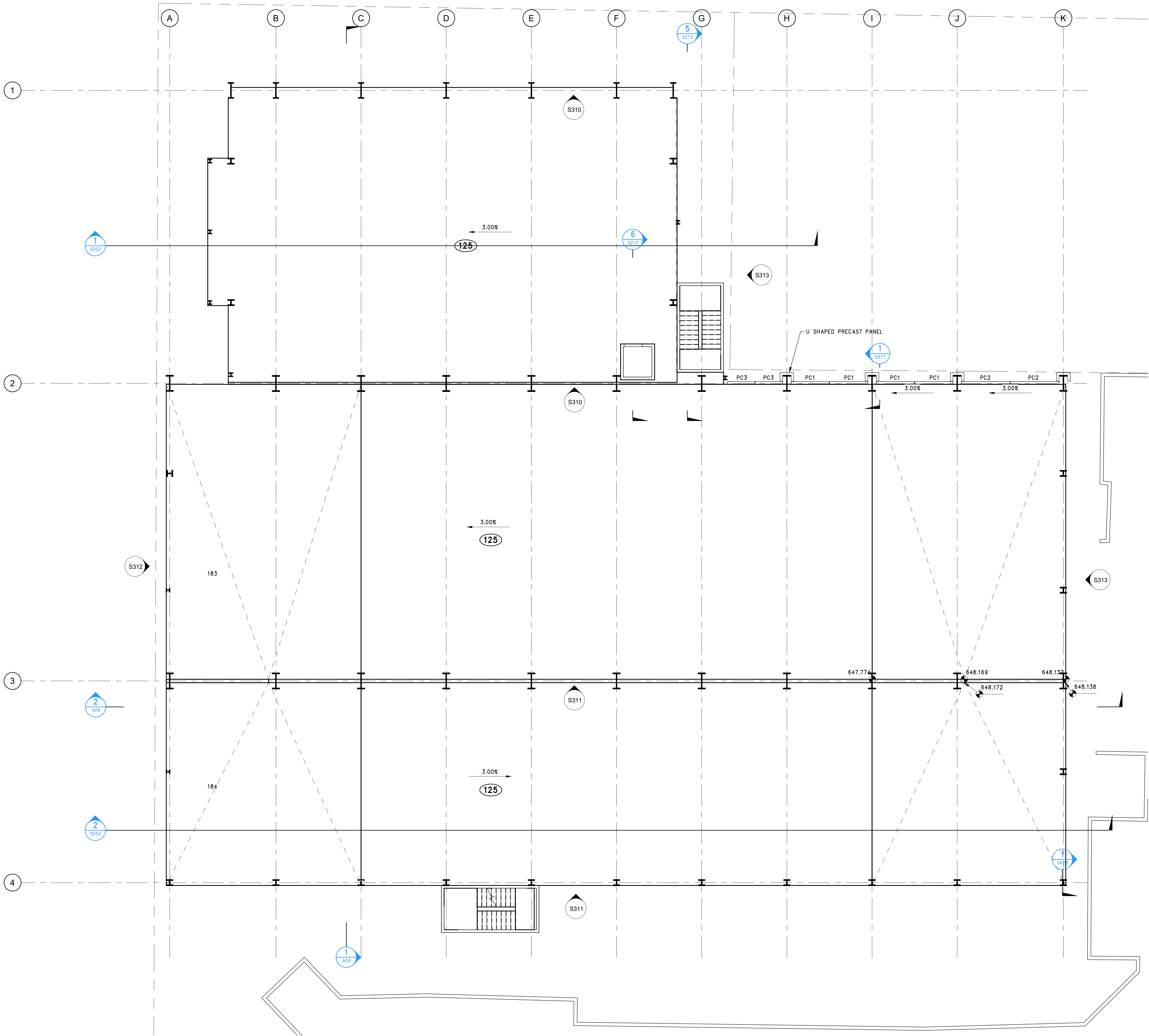
1 LEVEL 1 - 3 REINFORCEMENT PLAN
A07 1 : 100

A P2 REV.			12.02.25 22.11.23 30.10.23	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION	PJB PJB PJB	GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners  A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au	Scale 1 : 100		Project Status PRELIMINARY		Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN		Title: LEVEL 1-3 REINFORCEMENT PLAN	Project No. 16048
Surveyed		Datum			Drawing No. S206										
Drawn		PJB	Designed		GPB	Approved		GPB	Client: GOULBURN WORKERS CLUB	Amendment No. /					
Checked		GPB	Date		Issue Date	No. of dwgs									
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1 LEVEL 1 - 3 FIRE RESISTANT REINFORCEMENT PLAN
A07 1 : 100

A P2 REV. 12.02.25 22.11.23 30.10.23 CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION			PJB PJB PJB GPB GPB GPB de Groot & Benson Consulting Engineers & Planners		 A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbs.com.au		Scale		Project Status		Project: WORKERS CLUB CARPARK 1 MCKELL PL GOULBURN Client: GOULBURN WORKERS CLUB		 Title: LEVEL 1-3 FIRE RESISTANCE REINFORCEMENT		Project No.		16048				
							Surveyed		Datum						Drawing No.		S207				
							Drawn		Designed						Approved						
							Checked		Date						Issue Date		No. of dwgs				
P1			DATE			DR.BY			AP.BY									Amendment No.		A	



1 LEVEL 3 - 5 CONCRETE PLAN
A07 1 : 100

						de Groot & Benson			A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW	
A	12.02.25	CONSTRUCTION CERTIFICATE		PJB	GPB	Consulting Engineers & Planners			Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au	
P3	22.11.23	COORDINATION		PJB	GPB					
P2	30.10.23	PRELIMINARY		PJB	GPB					
P1	22.09.23	PRELIM		PJB	GPB					
REV.	DATE	REVISION		DR.BY	AP.BY					

Scale		1 : 100		Project Status		PRELIMINARY					
Surveyed				Datum							
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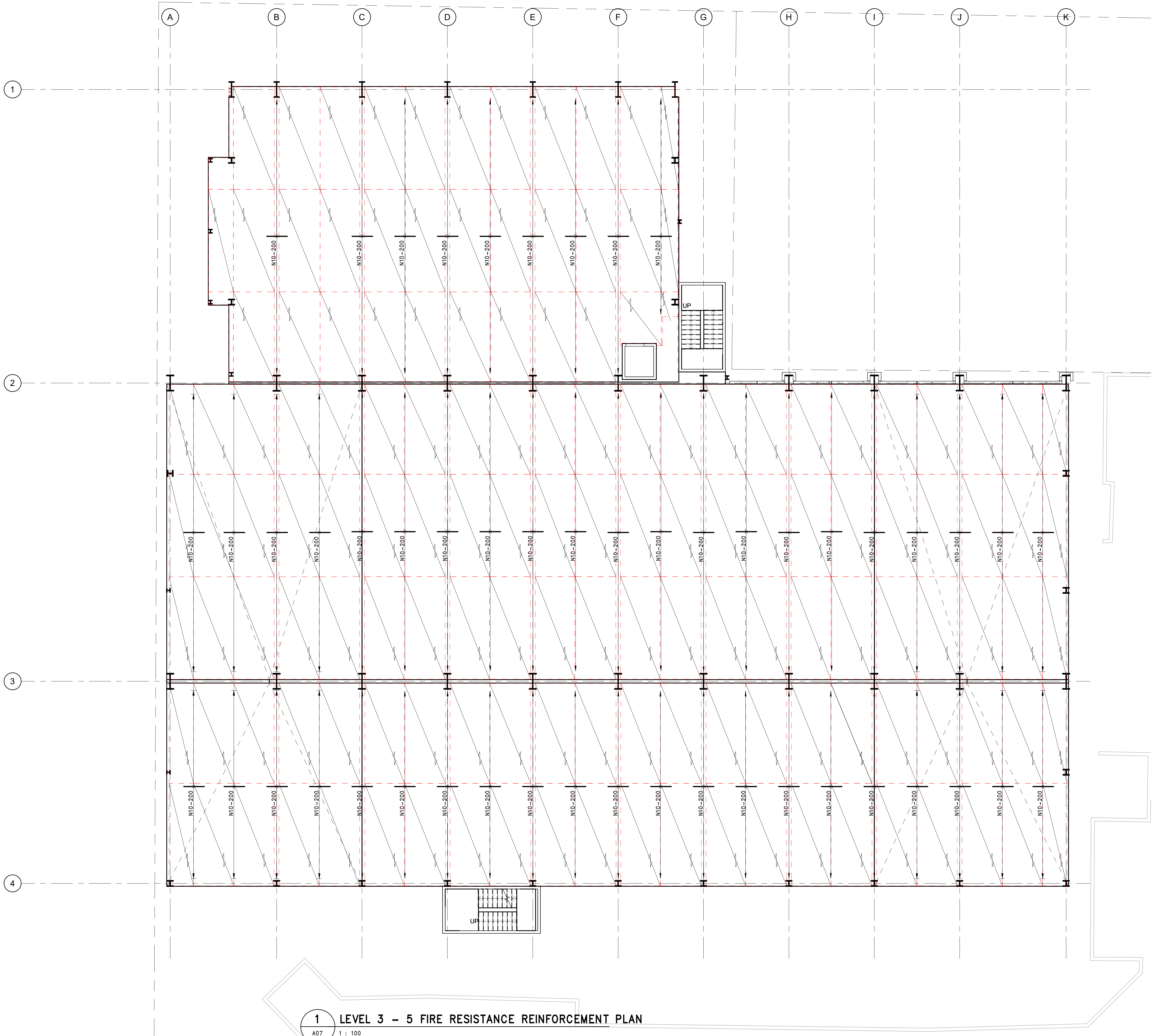
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WORKERS CLUB CARPARK			
1 McKELL PL GOULBURN			
Client:		GOULBURN WORKERS CLUB	

Project No.		16048
Drawing No.		S208
Amendment No.		A

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13/02/2025 10:21:29 AM S:\16\16048 1 McKell Pl Goulburn\Draws\16048-Structure [R24].rv



1

LEVEL 3 - 5 FIRE RESISTANCE REINFORCEMENT PLAN

A07

1 : 100

A	12.02.25	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION	PJB PJB PJB	GPB GPB GPB
	P2			
	22.11.23			
	P1			
REV.	DATE		DR. BY	AP. BY

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Benson



Consulting
Engineers &
Planners

A.C.N. 052 300 571
236 Harbour Drive,
Coffs Harbour NSW

Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgbb.com.au

Scale		1 : 100		Project Status		PRELIMINARY					
Surveyed				Datum							
Drawn		PJB		Designed		GPB		Approved		GPB	
Checked		GPB		Date		Issue Date		No. of dwgs			

Project:
**WORKERS CLUB CARPARK -
1 McKELL PL
GOULBURN**

Client:
GOULBURN WORKERS CLUB



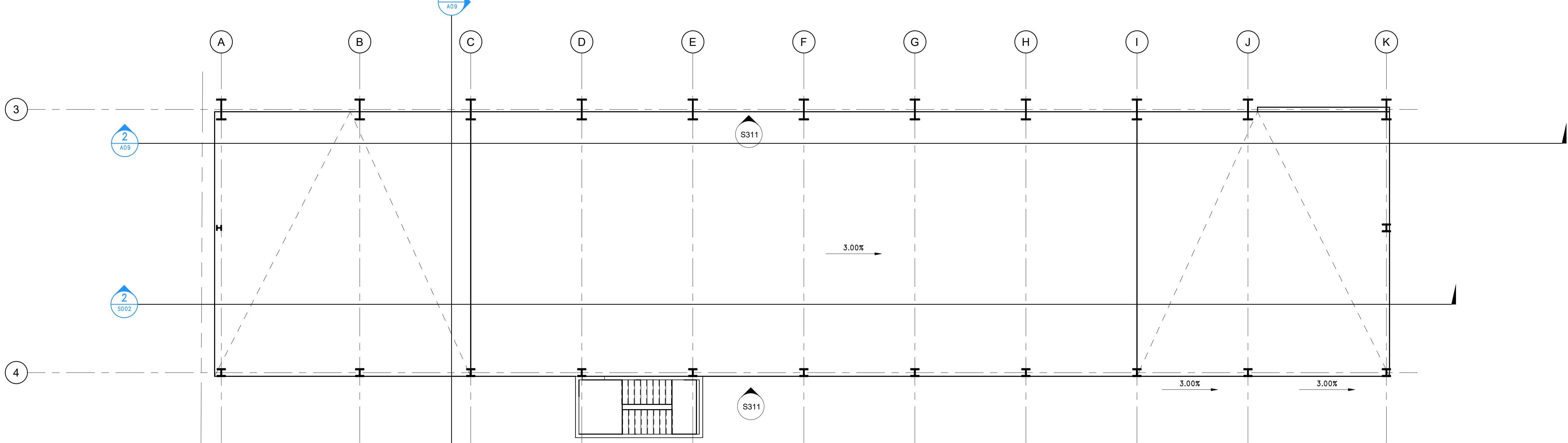
Title:
**LEVEL 3-5 FIRE RESISTACE
REINFORCEMENT PLAN**

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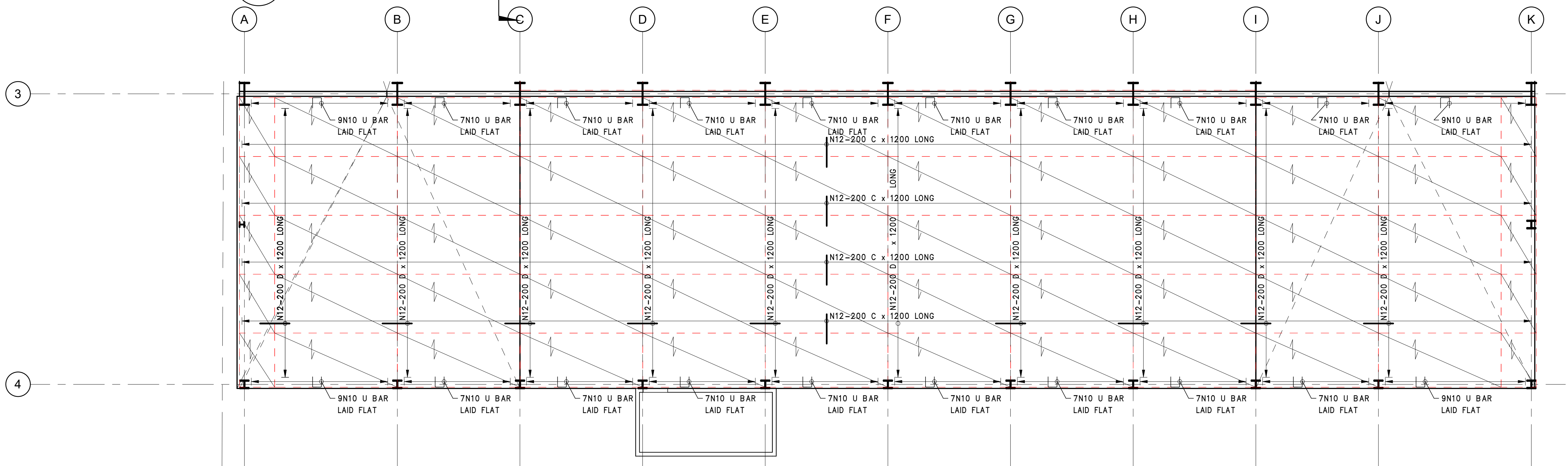
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Drawing No. **S210**

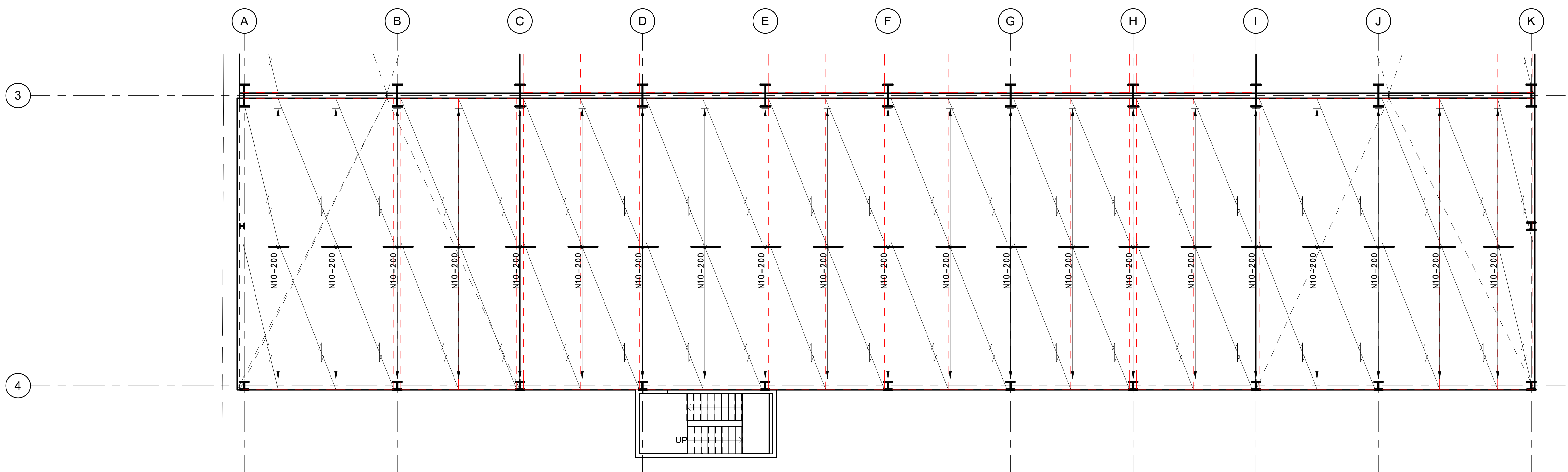
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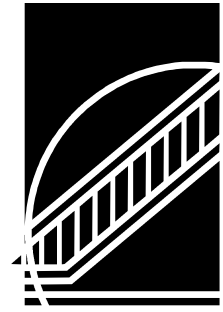
1 LEVEL 5-6 CONCRETE PLAN
A07 1 : 100



2 LEVEL 5-6 REINFORCEMENT PLAN
A07 1 : 100



3 LEVEL 5-6 FIRE RESISTANCE REINFORCEMENT PLAN
A07 1 : 100

						de Groot & Benson Consulting Engineers & Planners			A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW
A	12.02.25	CONSTRUCTION CERTIFICATE		PJB	GPB				
P3	22.11.23	COORDINATION		PJB	GPB				
P2	30.10.23	PRELIMINARY		PJB	GPB				
P1	22.09.23	PRELIM		PJB	GPB				
REV.	DATE	REVISION		DR.BY	AP.BY				Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au

Scale		1 : 100		Project Status		PRELIMINARY	
Surveyed				Datum			
Drawn	PJB	Designed	GPB	Approved	GPB		
Checked	GPB	Date	Issue Date	No. of dwgs			

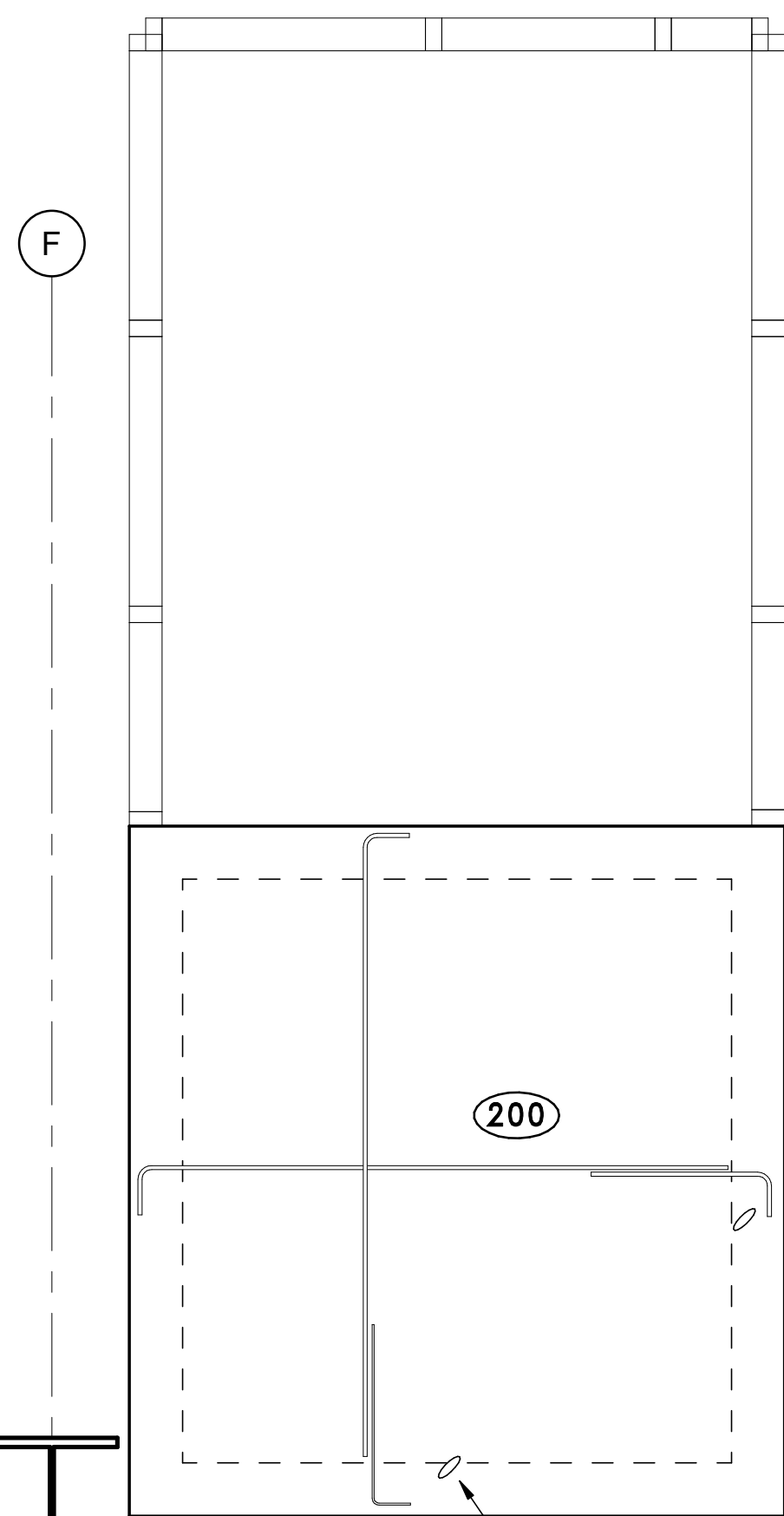
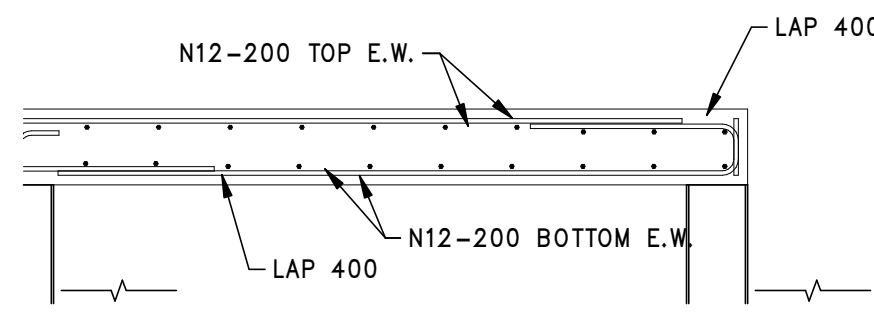
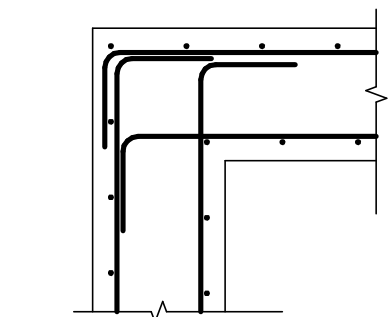
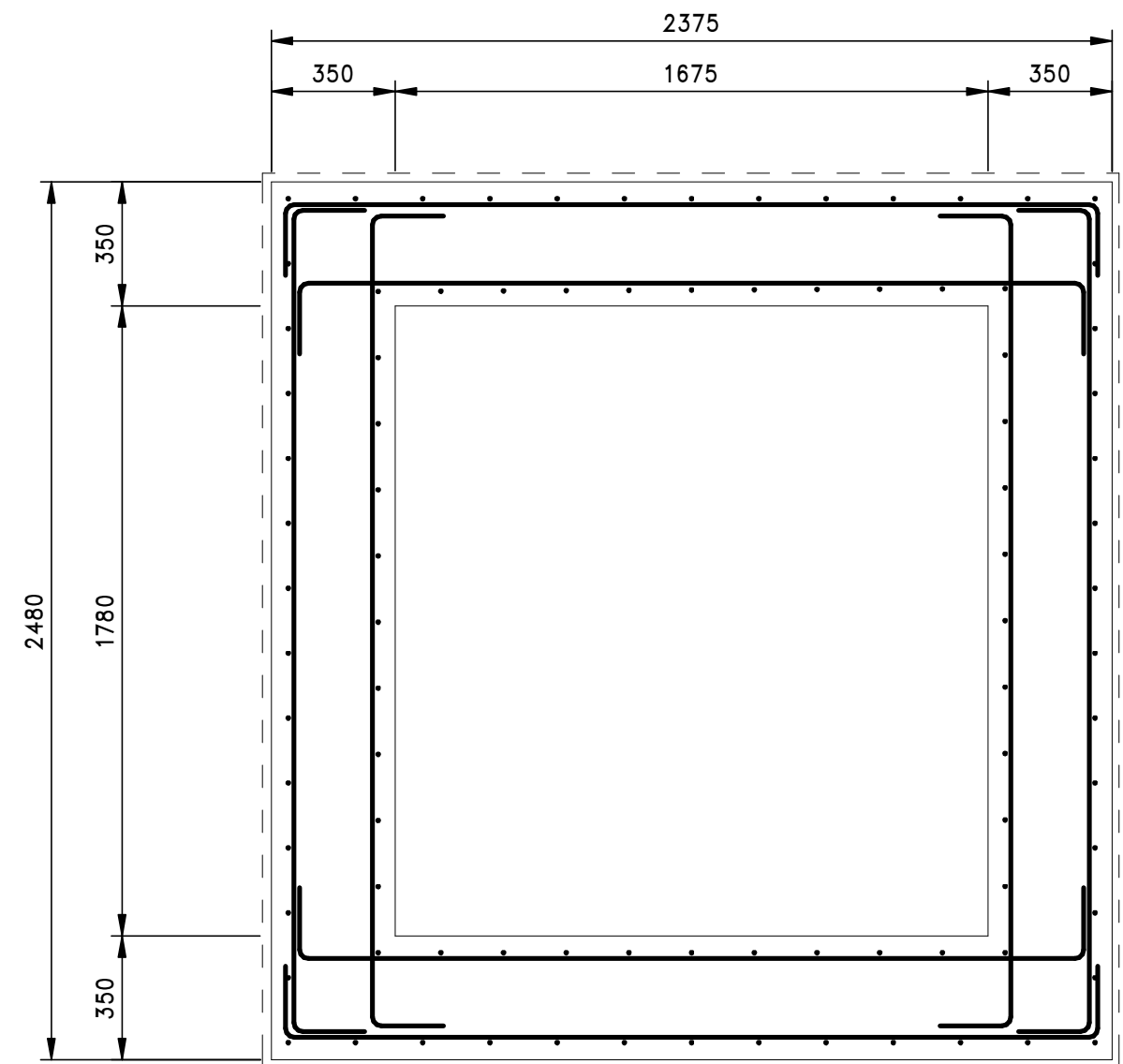
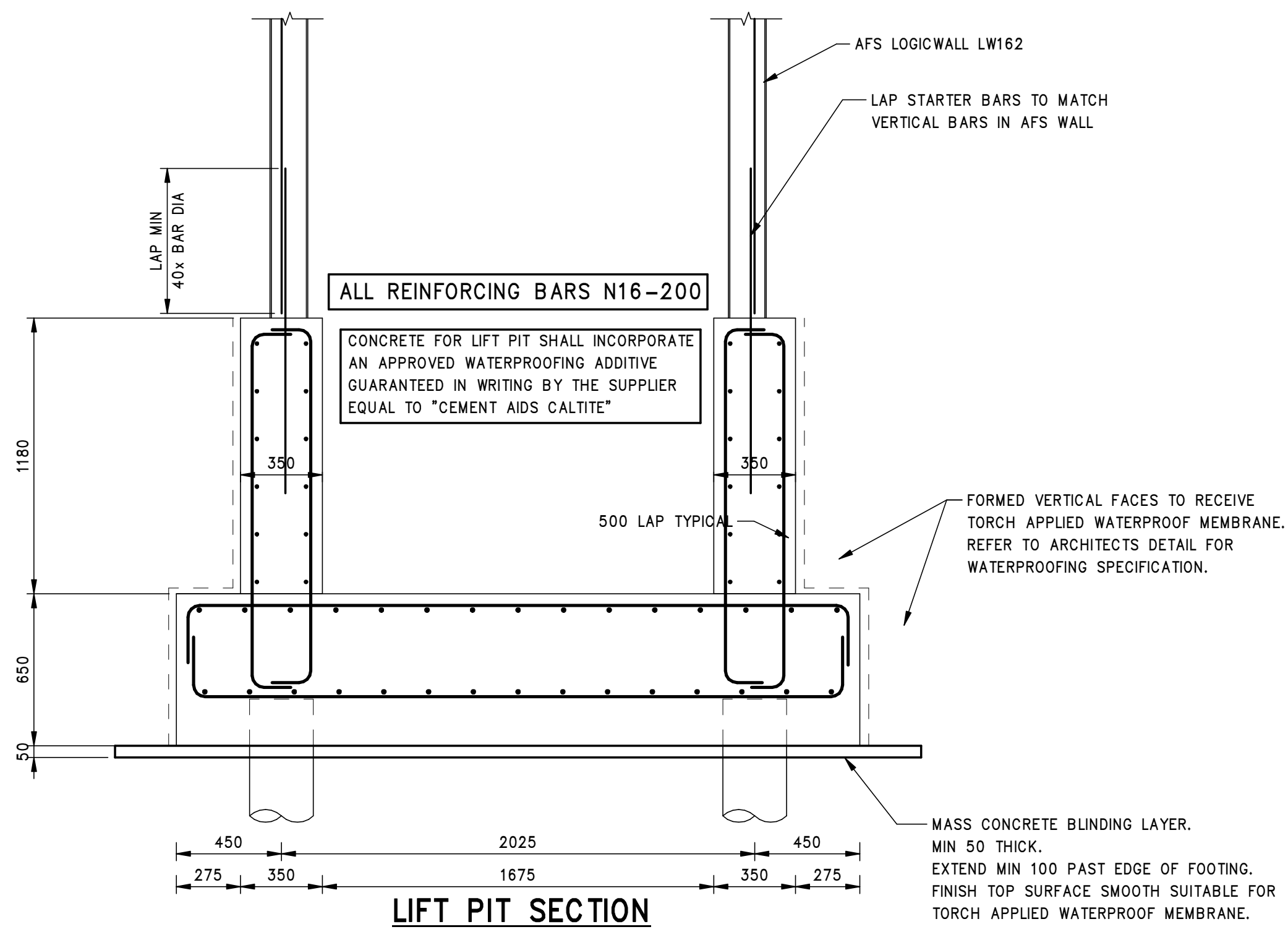
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WORKERS CLUB CARPARK		
1 McKELL PL GOULBURN		
Client:		
GOULBURN WORKERS CLUB		

Title: _____

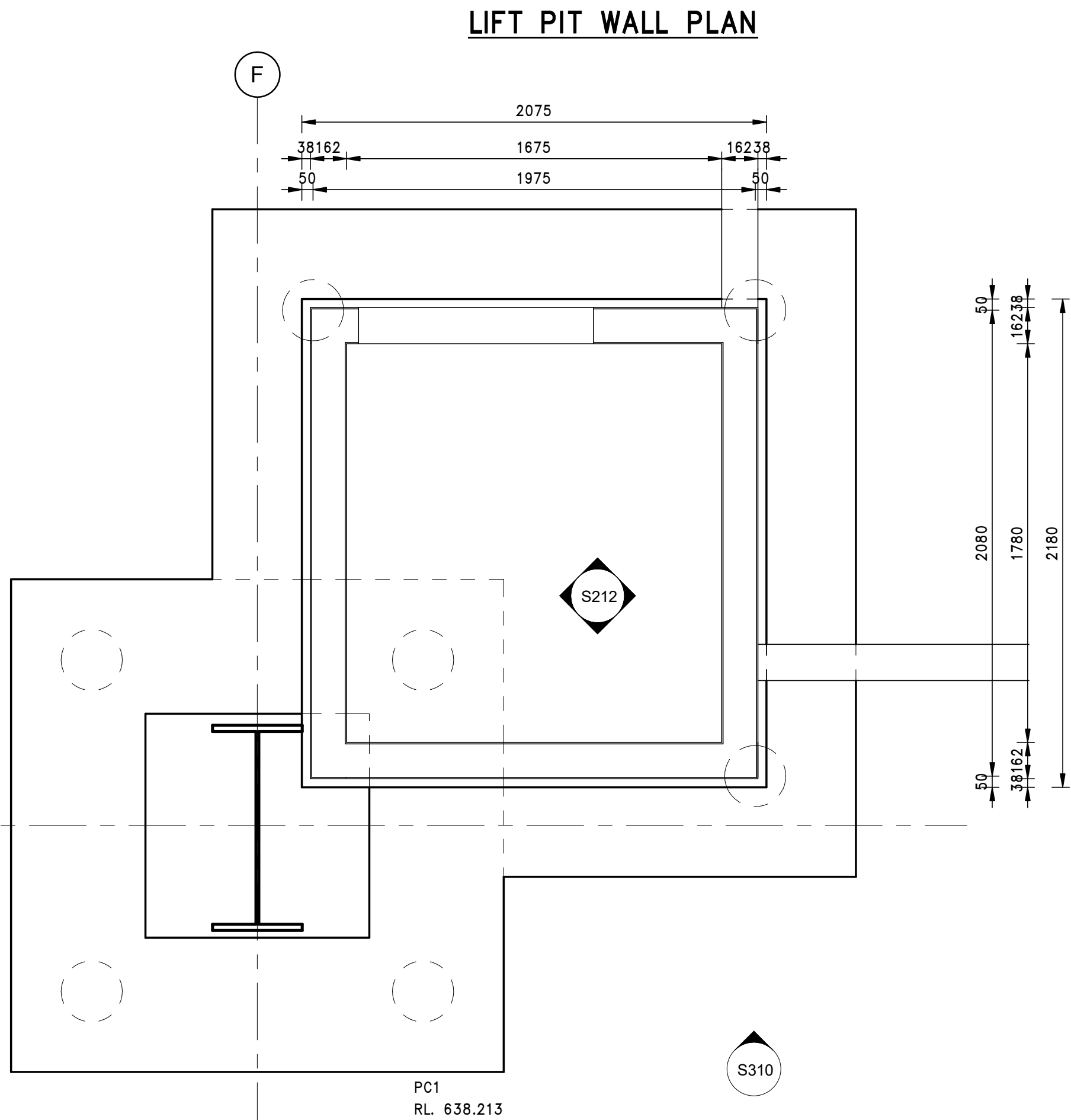
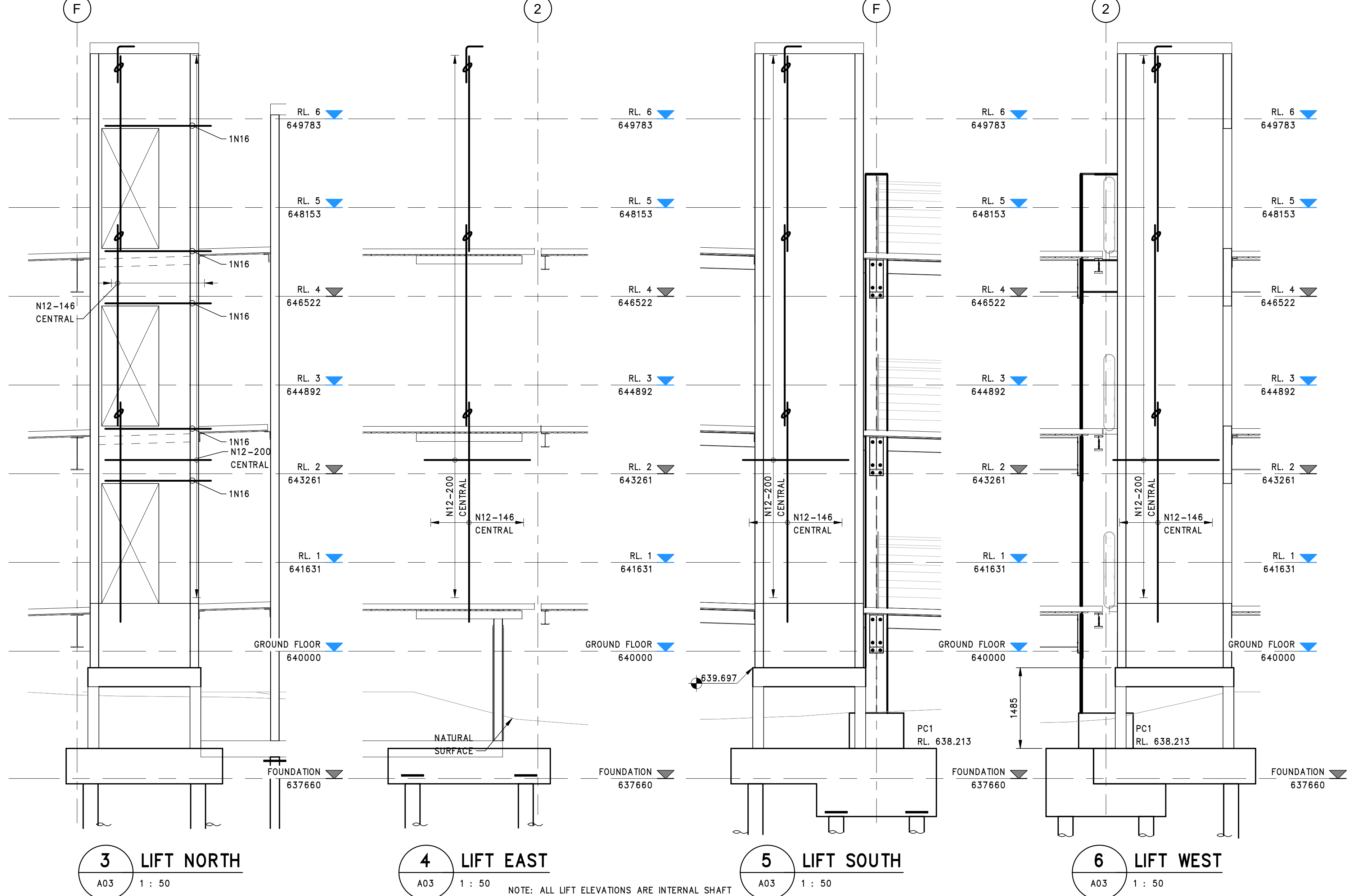
**LEVEL 5-6 CONCRETE,
REINFORCEMENT & FIRE
REINFORCEMENT PLANS**

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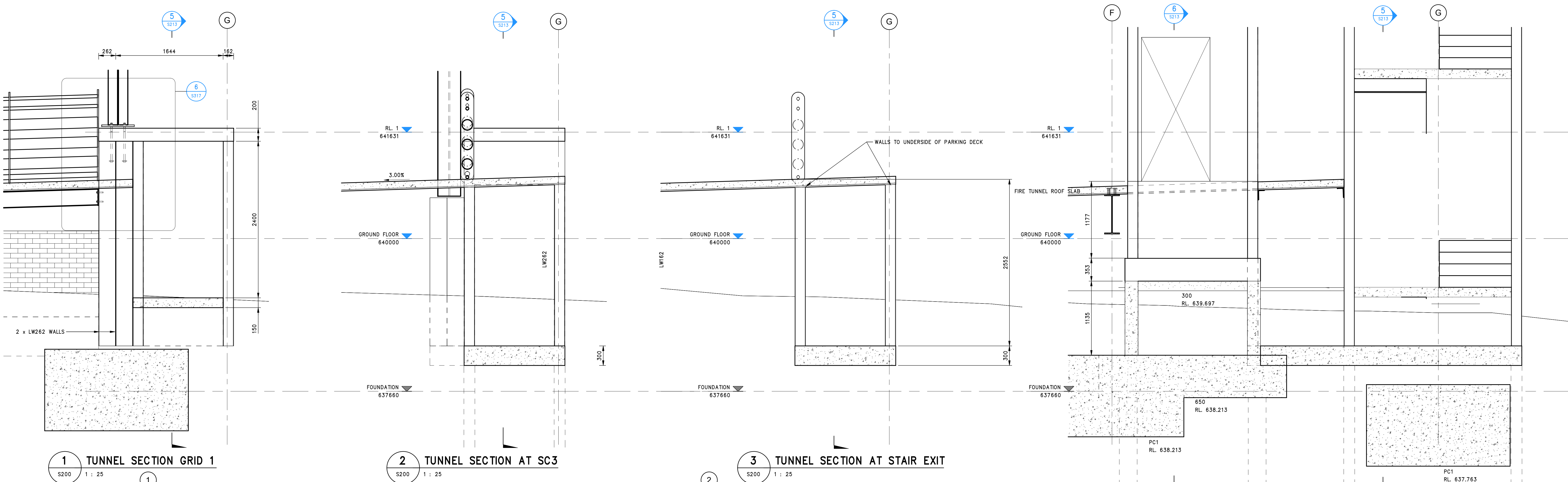
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NOTE: THE LIFT SHAFT IS DESIGNED TO SUPPORT ONLY THE CARPARK FLOORS BEARING DIRECTLY ONTO SHELF ANGLES ATTACHED TO LIFT WALLS. THE LIFT SHAFT DOES NOT PROVIDE LATERAL SUPPORT FO CARPARK DECK STRUCTURES AND CARPARK STEEL FRAMES.



A P3 P2 P1		12.02.25 22.11.23 30.10.23 25.10.23	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY LIFT PRELIM REVISION		PJB PJB PJB PJB	GPB GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners		A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au	Scale As indicated Surveyed Drawn Checked	Project Status PRELIMINARY Datum GPB Approved GPB	Project: WORKERS CLUB CARPARK - 1 McKELL PL GOULBURN Client: GOULBURN WORKERS CLUB	 © COPYRIGHT 2023 The design and details shown on these drawings are applicable to this project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written consent of DE GROOT & BENSON Pty Ltd with whom copyright resides.	Title: LIFT PLAN & DETAILS		Project No. 16048
REV.		DATE			DR.BY	AP.BY								Drawing No. S212		Amendment No. A

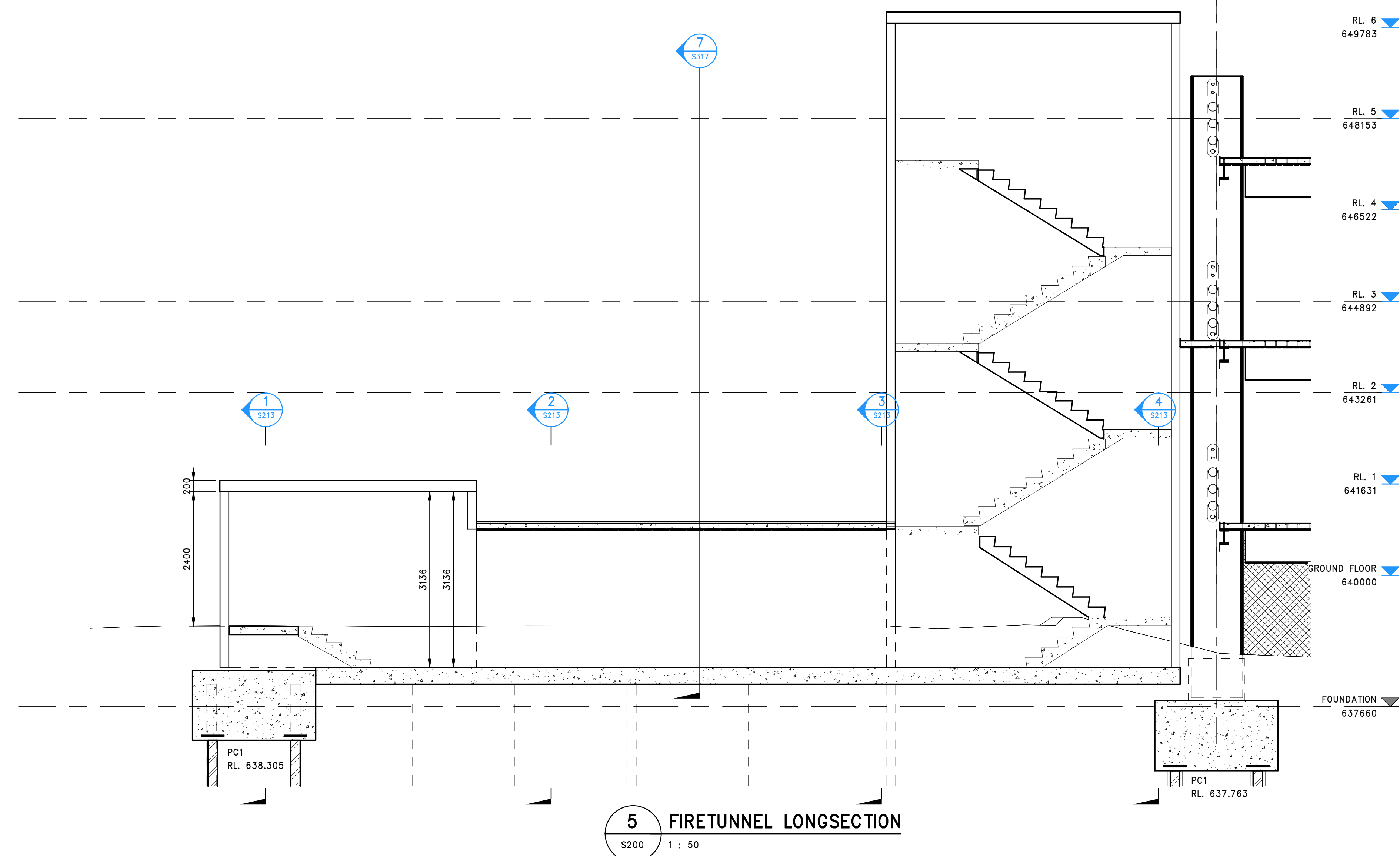


1 TUNNEL SECTION GRID 1
S200 1 : 25

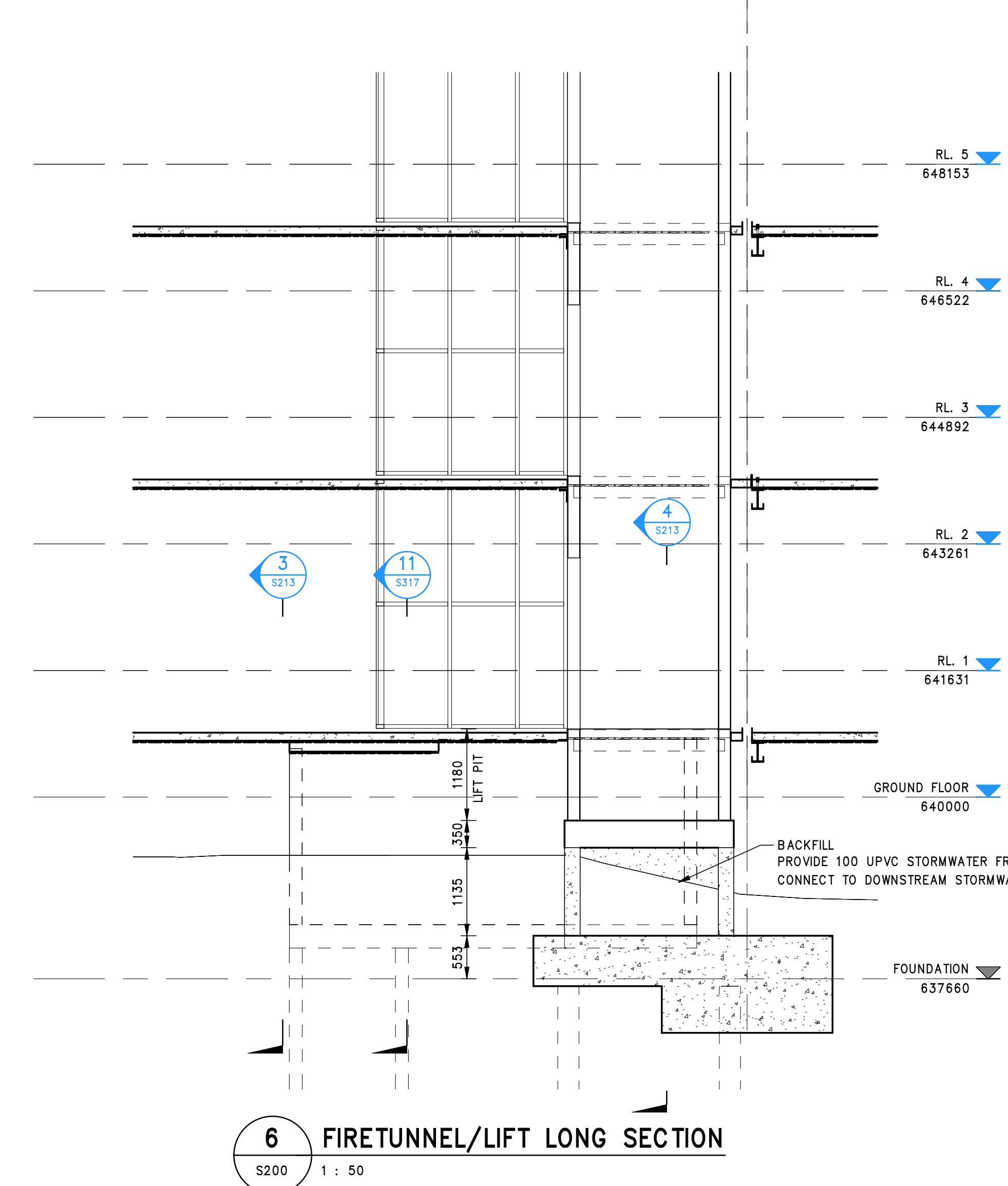
2 TUNNEL SECTION AT SC3
S200 1 : 25

3 TUNNEL SECTION AT STAIR EXIT
S200 1 : 25

4 TUNNEL SECTION AT LIFT
S200 1 : 25



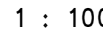
5 FIRETUNNEL LONGSECTION
S200 1 : 50



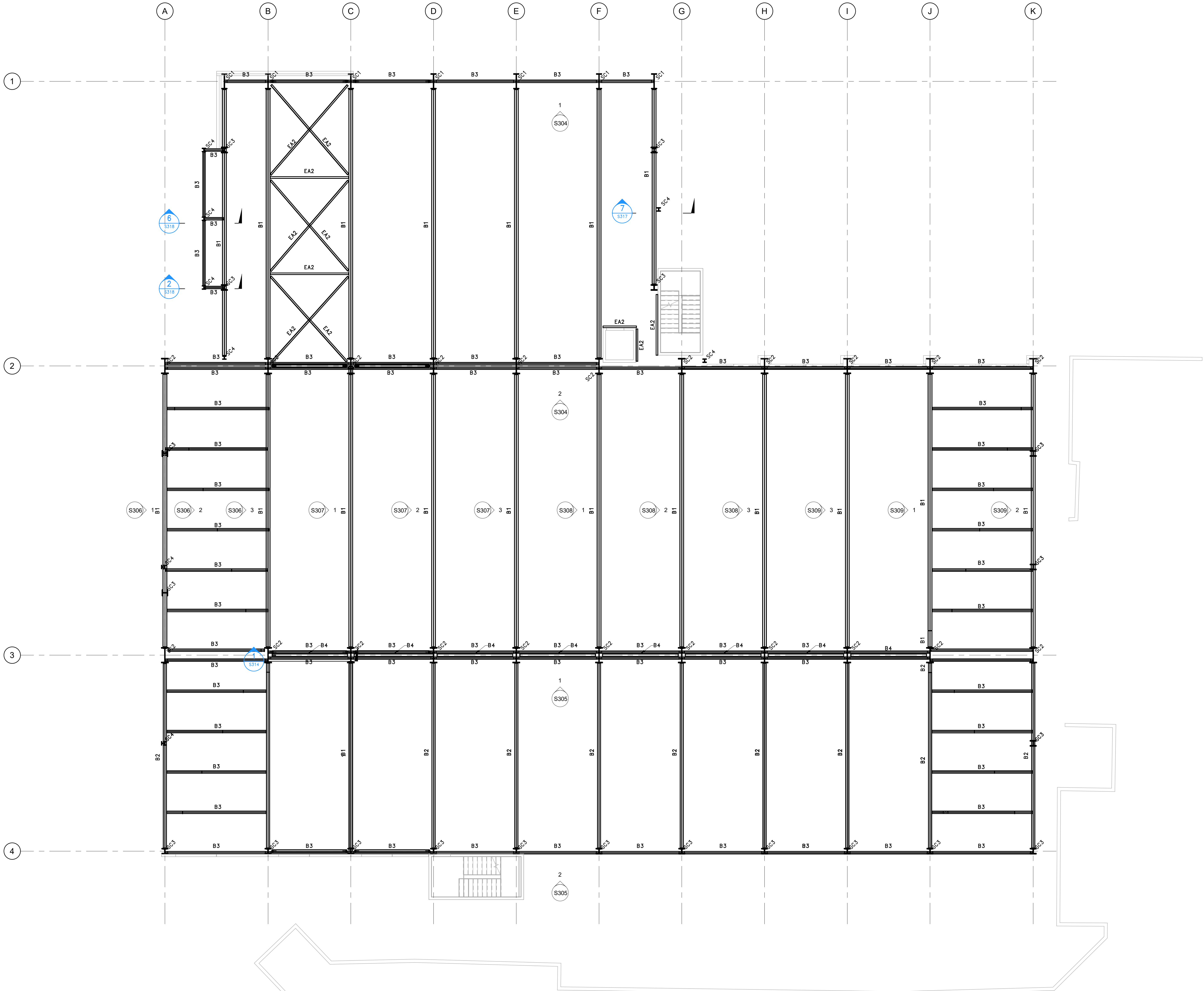
6 FIRETUNNEL/LIFT LONG SECTION
S200 1 : 50

FIRE TUNNEL REINFORCEMENT
WALL REINFORCEMENT
LW162: N12-200 EACH WAY CENTRAL
LW262: N12-200 EACH WAY EACH FACE
BASE SLAB
N12-200 A,B,C,D LAYERS
COG MIN 150 AT EDGES
LAP 600 AT SPLICES

A		12.02.25	CONSTRUCTION CERTIFICATE		PJB	GPB	
REV	DATE		REVISION		DR BY	AP BY	
de Groot & Benson Consulting Engineers & Planners							
					A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au		
Scale		As indicated		Project Status		PRELIMINARY	
Surveyed				Datum			
Drawn	Author	Designed	Designer	Approved	Approver		
Checked	Checker	Date	Issue Date	No. of dwgs			
Project:						WORKERS CLUB CARPARK 1 McKELL PL GOULBURN	
Client:						GOULBURN WORKERS CLUB	
Title:						FIRE TUNNEL SECTIONS	
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Project No.						160	
Drawing No.						S2	
Amendment No.							



STEEL COLUMN SCHEDULE	
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SC2	900WB257
SC3	350WC197
SC4	200UC46.2



LEVEL 1 - 3 FRAMING PLAN
1 : 100

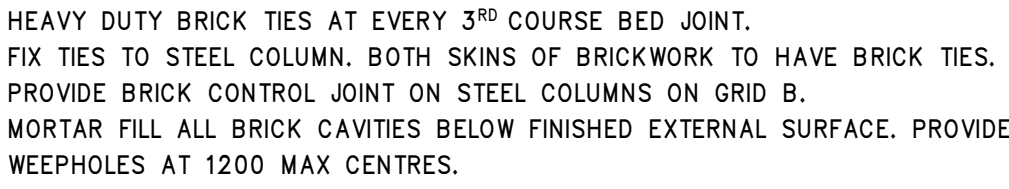
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	22.11.23		PJB	GPB				Surveyed		Datum				Drawing No.	S301		
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	22.09.23		PJB	GPB				Checked	GPB	Date	Issue Date			No. of dwgs			
DATE	REVISION	DR BY	AP BY														



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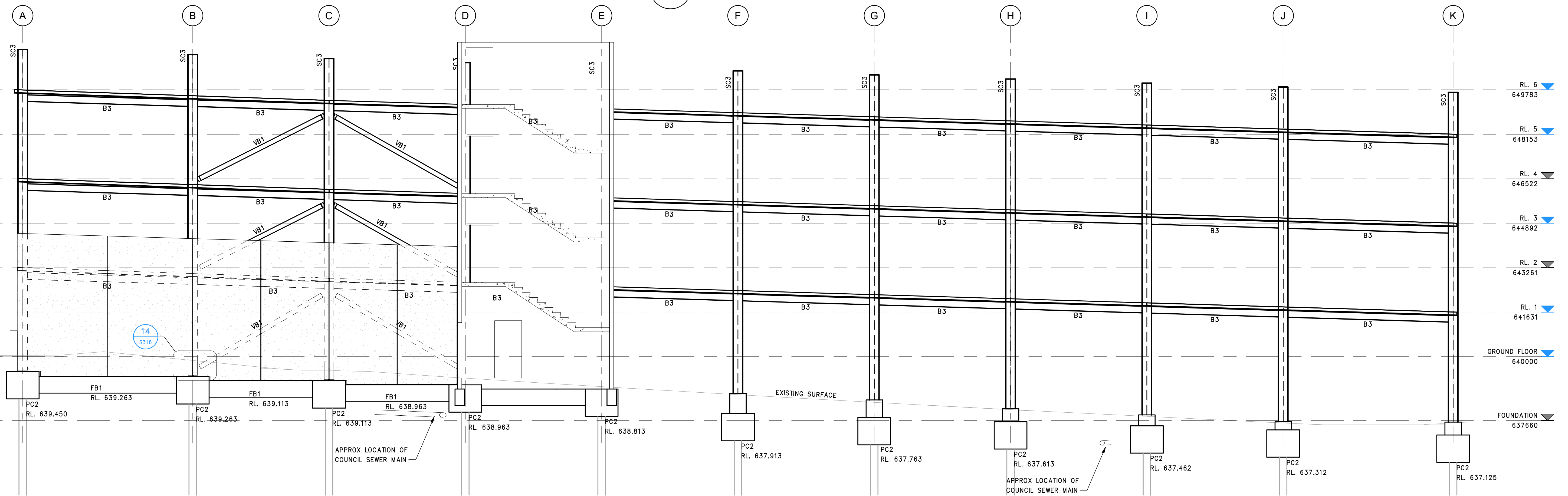


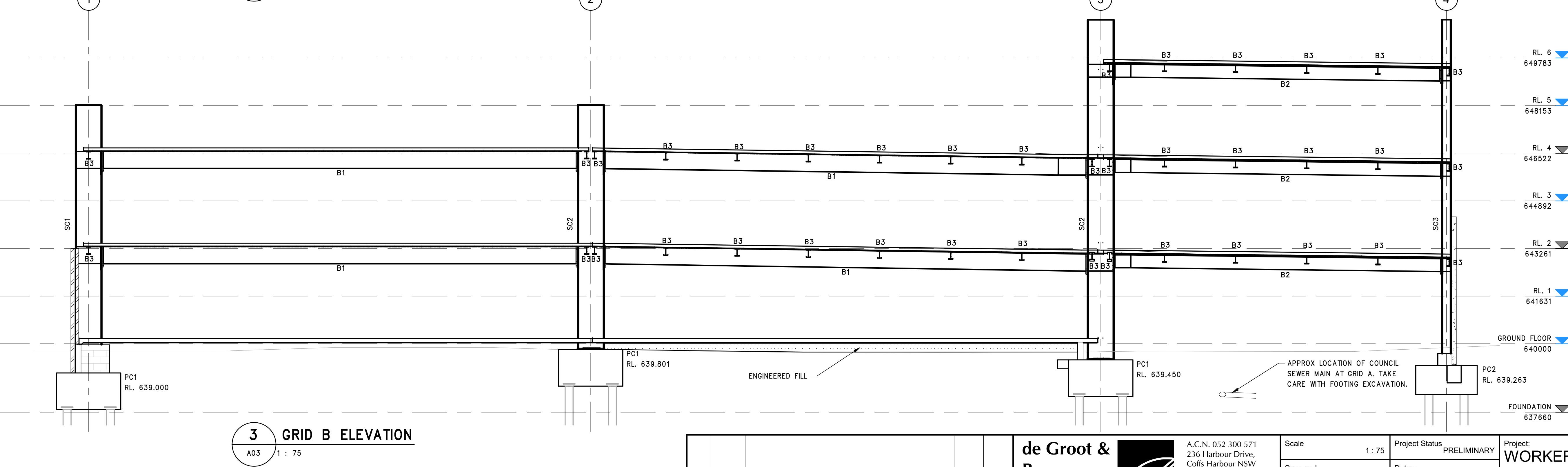
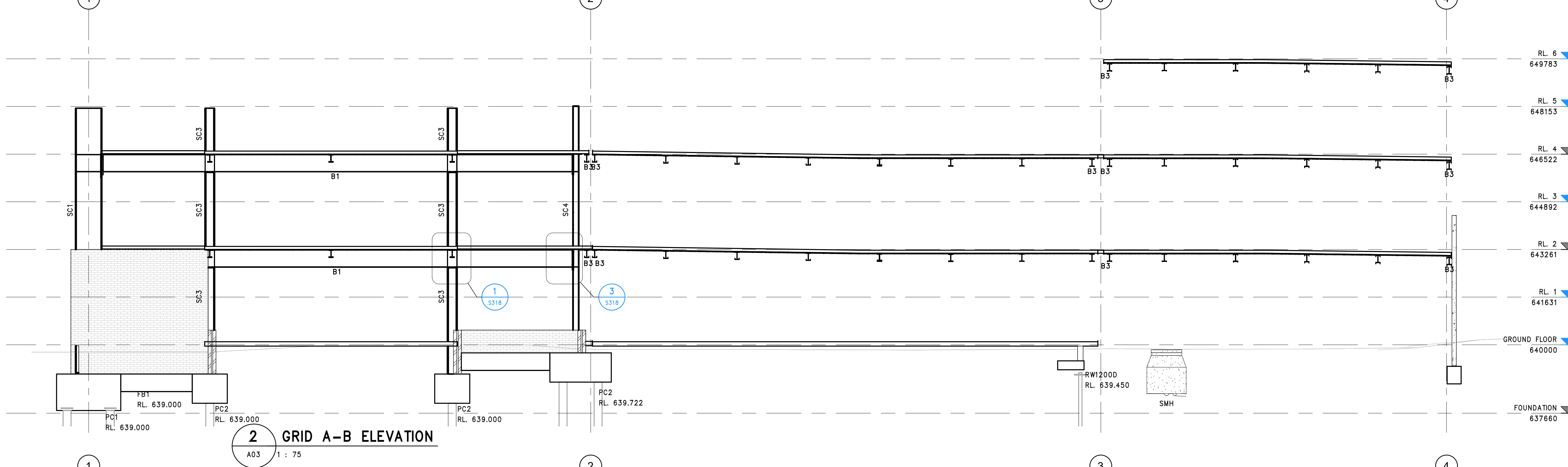
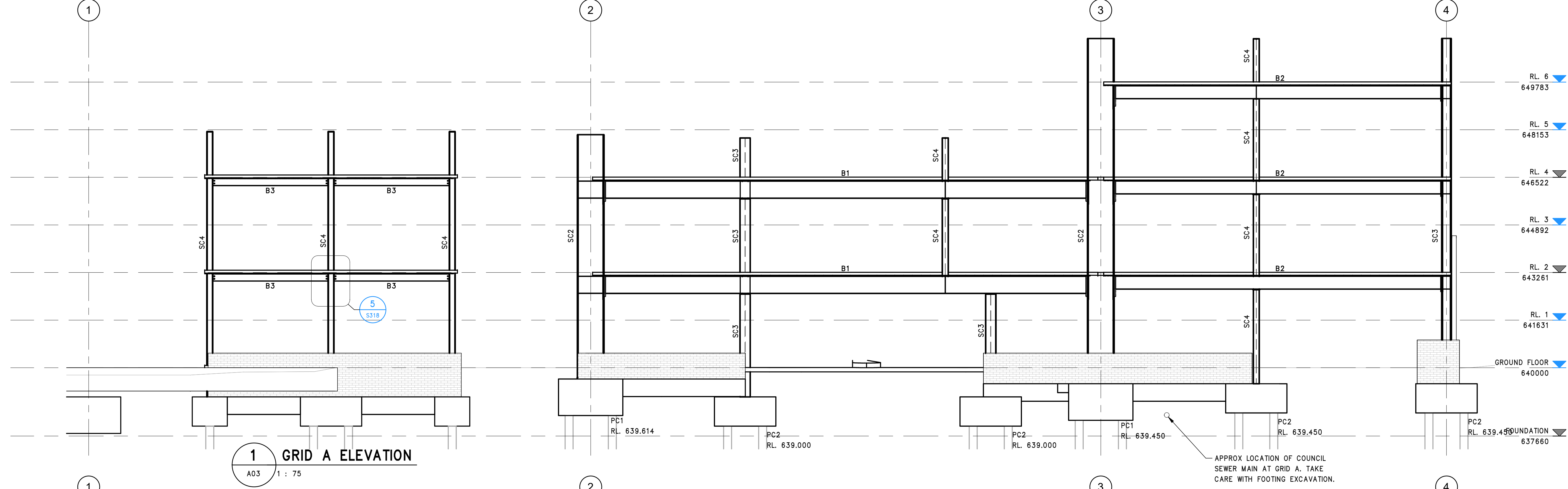
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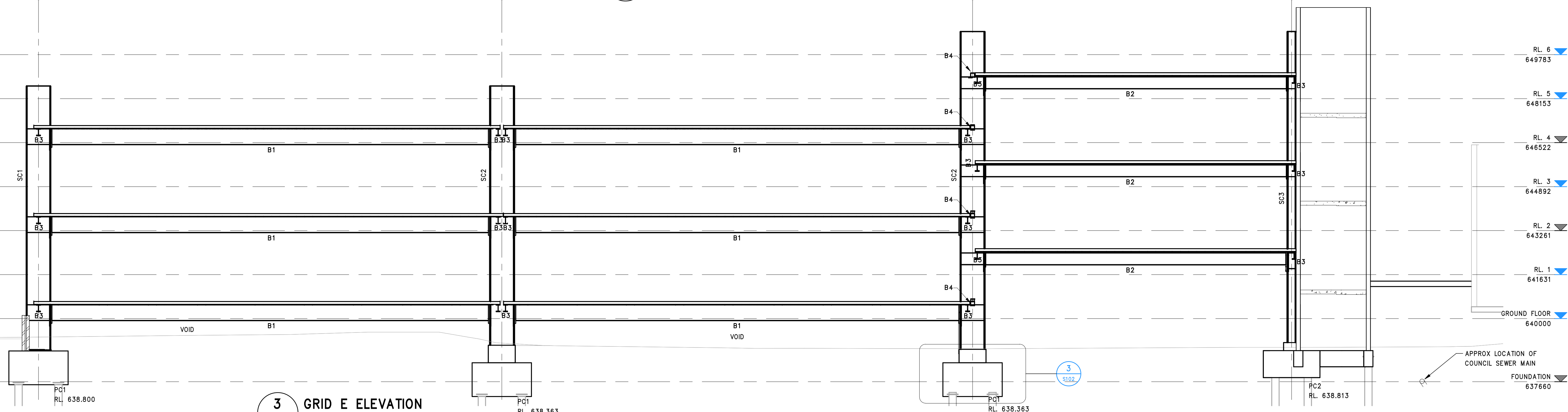


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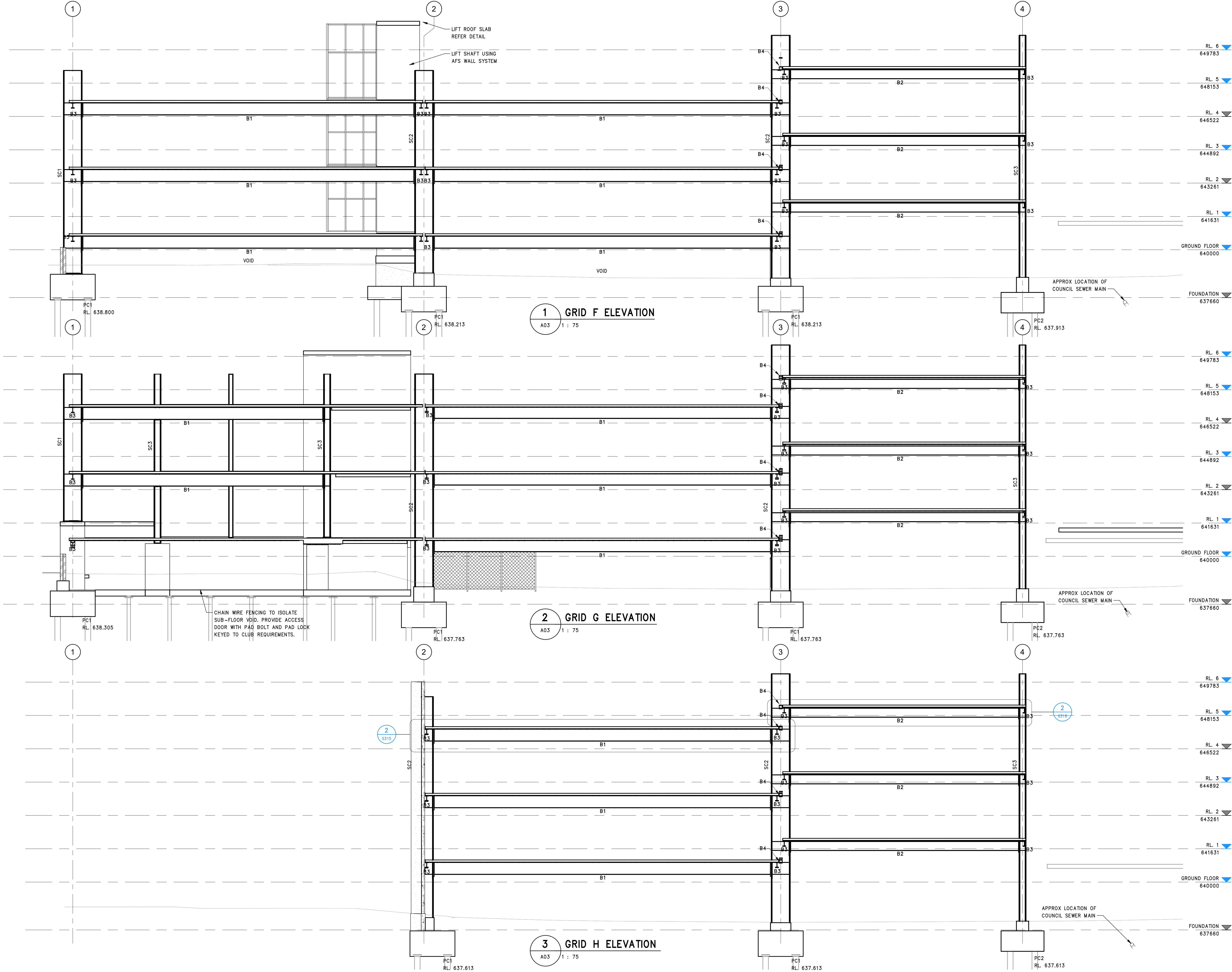
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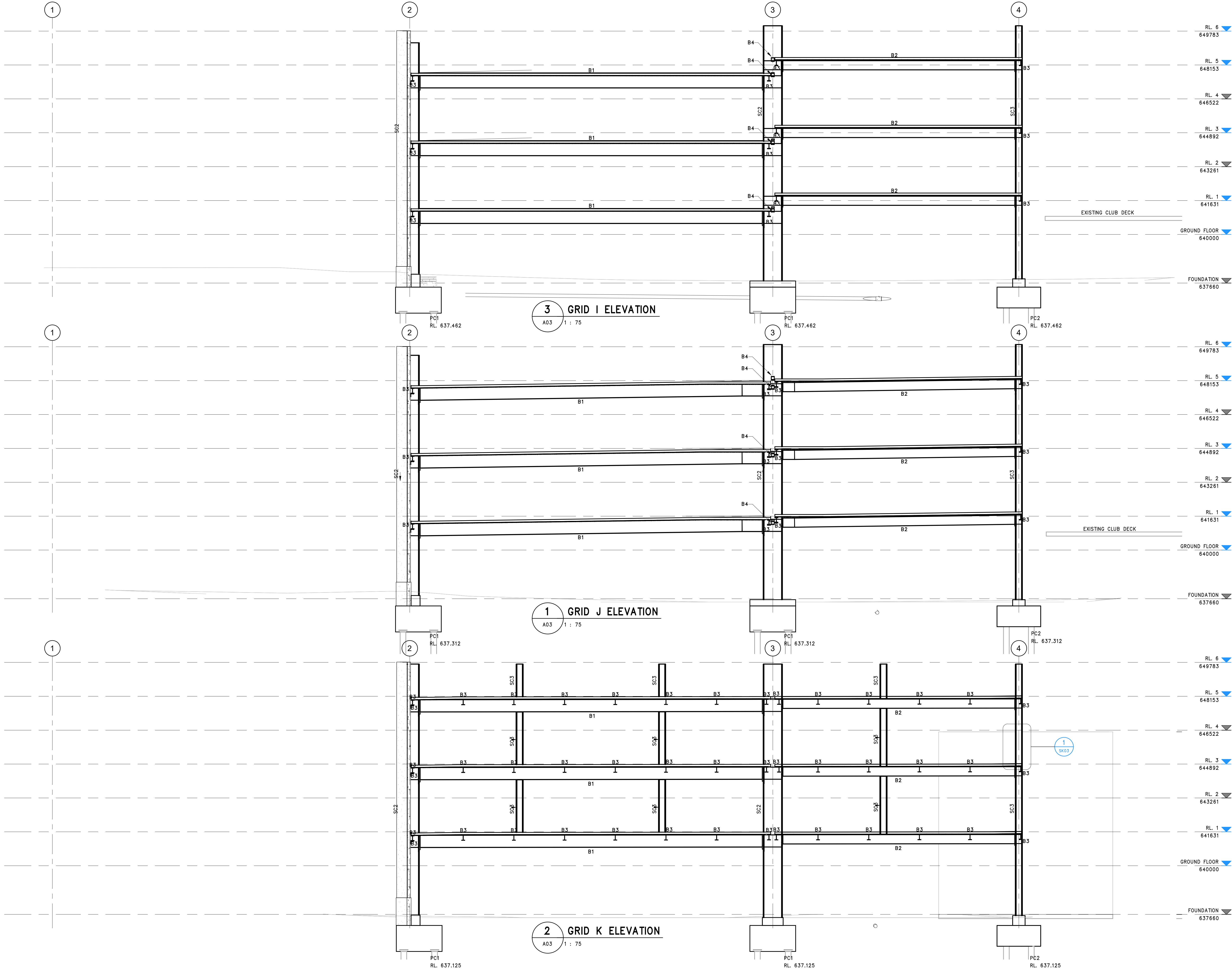






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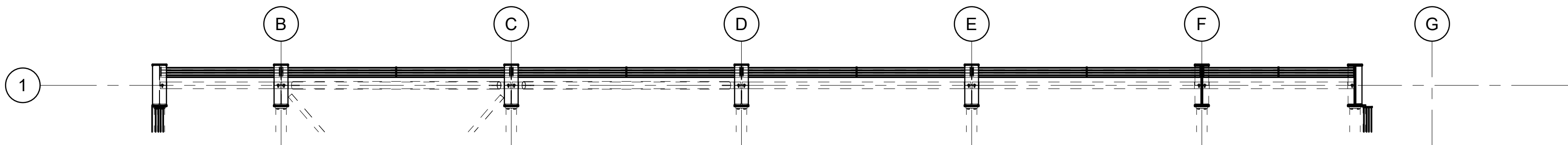


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RL. 5	648153
RL. 4	646522
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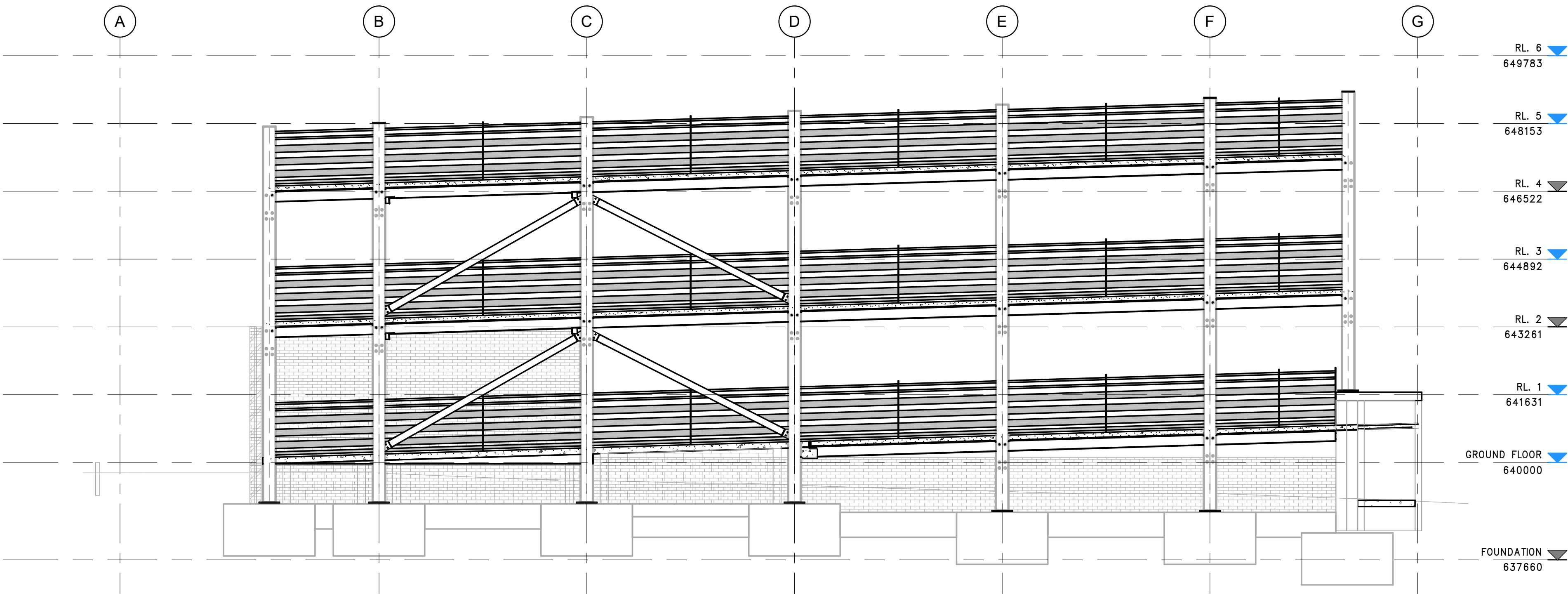
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EXISTING CLUB DECK	
GROUND FLOOR	640000
FOUNDATION	637660

RL. 6	649783
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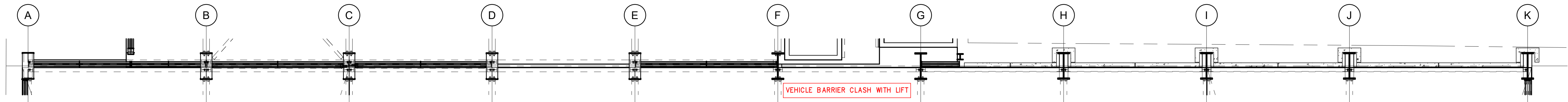
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A	12.02.25	CONSTRUCTION CERTIFICATE				PJB	GPB	Consulting Engineers & Planners		Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgb.com.au		Surveyed		Datum		Client:		GOULBURN WORKERS CLUB	
P3	22.11.23	COORDINATION				PJB	GPB					Date		Issue Date		No. of dwgs			
P2	30.10.23	PRELIMINARY				PJB	GPB					Drawn		Designed		Approved			
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REV.	DATE	REVISION				DR.BY	AP.BY					GPB							



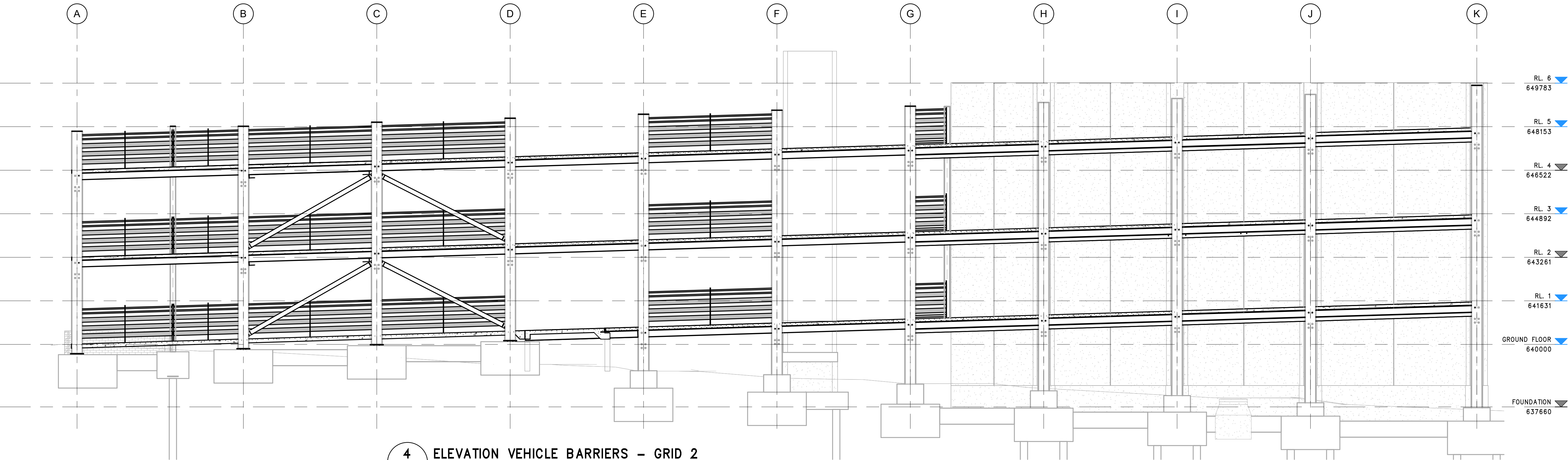
1 VEHICLE BARRIER PLAN GRID 1
A03 1 : 75



2 ELEVATION VEHICLE BARRIERS - GRID 1
A03 1 : 75

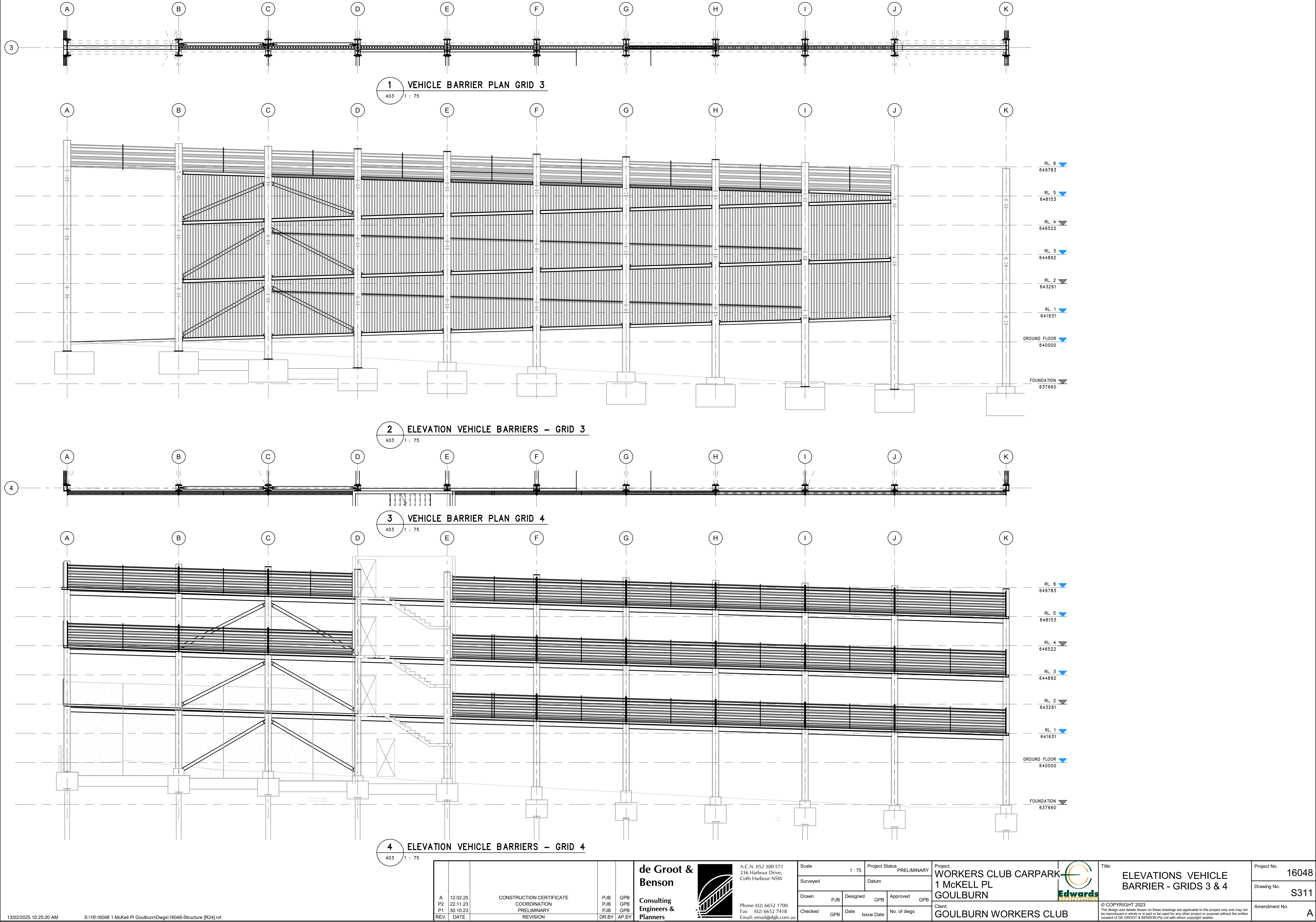


3 VEHICLE BARRIER PLAN GRID 2
A03 1 : 75



4 ELEVATION VEHICLE BARRIERS - GRID 2
A03 1 : 75

A P2 P1		12.02.25 22.11.23 30.10.23	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION	PJB PJB PJB	GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners	 A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgb.com.au	Scale 1 : 75	Project Status PRELIMINARY	Project: WORKERS CLUB CARPARK - 1 McKELL PL GOULBURN Client: GOULBURN WORKERS CLUB	 © COPYRIGHT 2023 The design and details shown on these drawings are applicable to this project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written consent of DE GROOT & BENSON Pty Ltd with whom copyright resides.	Title: ELEVATIONS VEHICLE BARRIER - GRIDS 1 & 2	Project No. 16048
REV.	DATE			Drawn PJB	Designed GPB			Approved GPB	Drawing No. S310				
				Checked GPB	Date			Issue Date	No. of dwgs				Amendment No.



1 VEHICLE BARRIER PLAN GRID 3
A03 1 : 75

2 ELEVATION VEHICLE BARRIERS – GRID 3
A03 1 : 75

3 VEHICLE BARRIER PLAN GRID 4
A03 1 : 75

4 ELEVATION VEHICLE BARRIERS – GRID 4
A03 1 : 75

REV.	DATE	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY REVISION	PJB PJB PJB PJB	GPB GPB GPB GPB	AP.BY

de Groot & Benson
Consulting Engineers & Planners

A.C.N. 052 300 571
236 Harbour Drive,
Coffs Harbour NSW

Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgbc.com.au

Scale 1 : 75		Project Status PRELIMINARY	
Surveyed		Datum	
Drawn	PJB	Designed	GPB
Checked	GPB	Approved	GPB
Date	Issue Date	No. of dwgs	

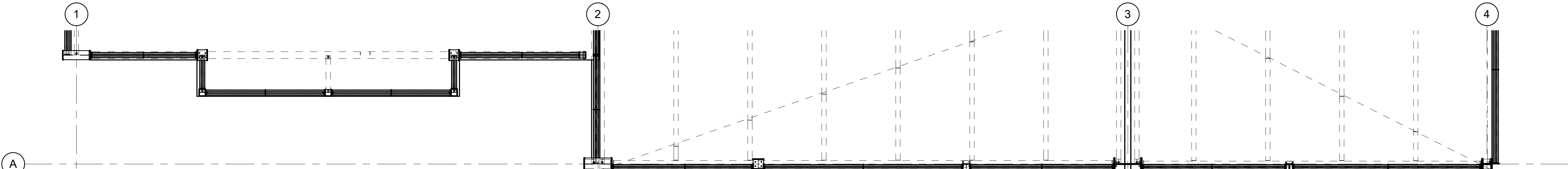
Project:
**WORKERS CLUB CARPARK
1 McKELL PL
GOULBURN**
Client:
GOULBURN WORKERS CLUB



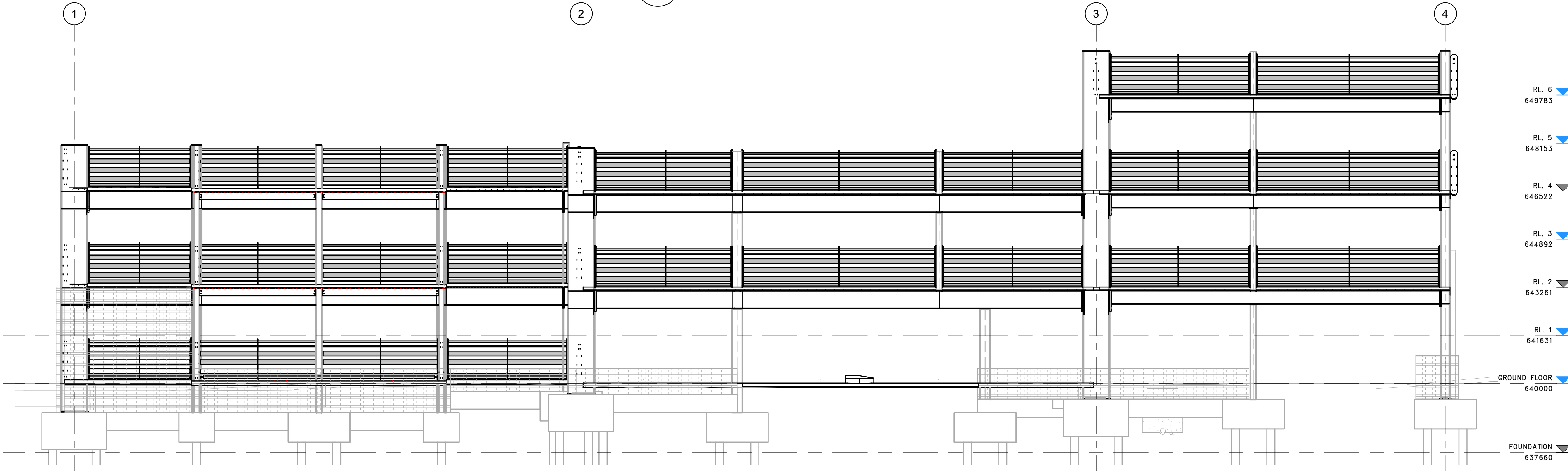
Title:
**ELEVATIONS VEHICLE
BARRIER - GRIDS 3 & 4**

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Project No.	16048
Drawing No.	S311
Amendment No.	A



1 VEHICLE BARRIER PLAN GRID A
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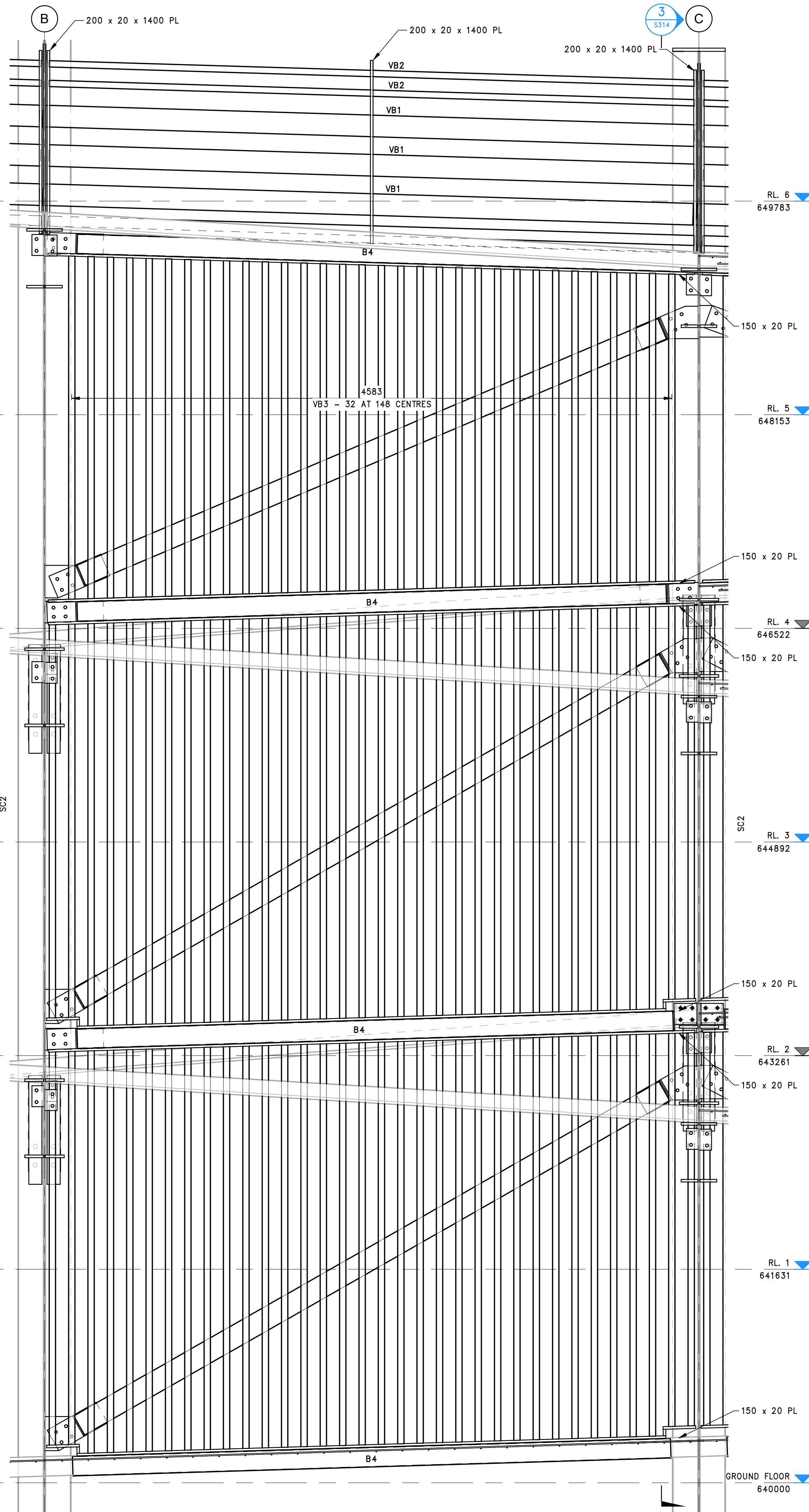


2 ELEVATION VEHICLE BARRIER GRID A
A03 1 : 75

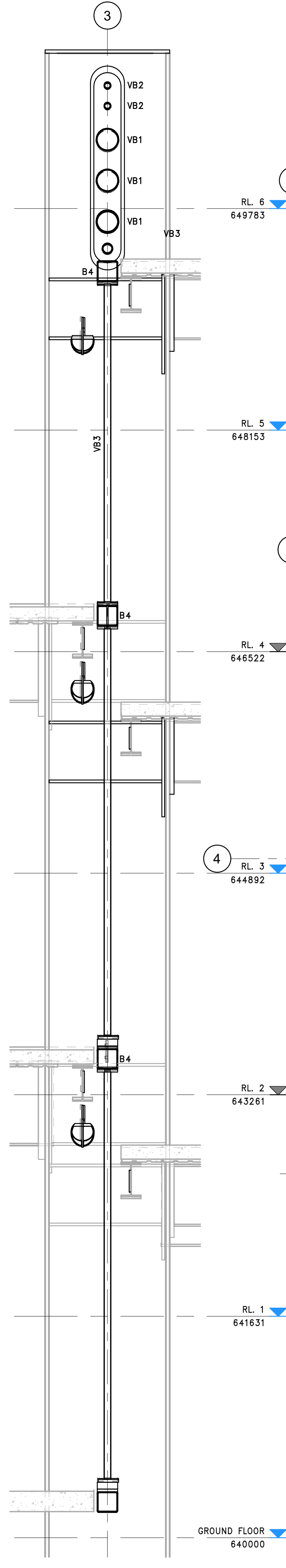
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	Surveyed					Datum		Drawing No. S312				
	Drawn PJB					Designed GPB	Approved GPB					
	Checked GPB					Date	Issue Date	No. of dwgs	Amendment No. A			
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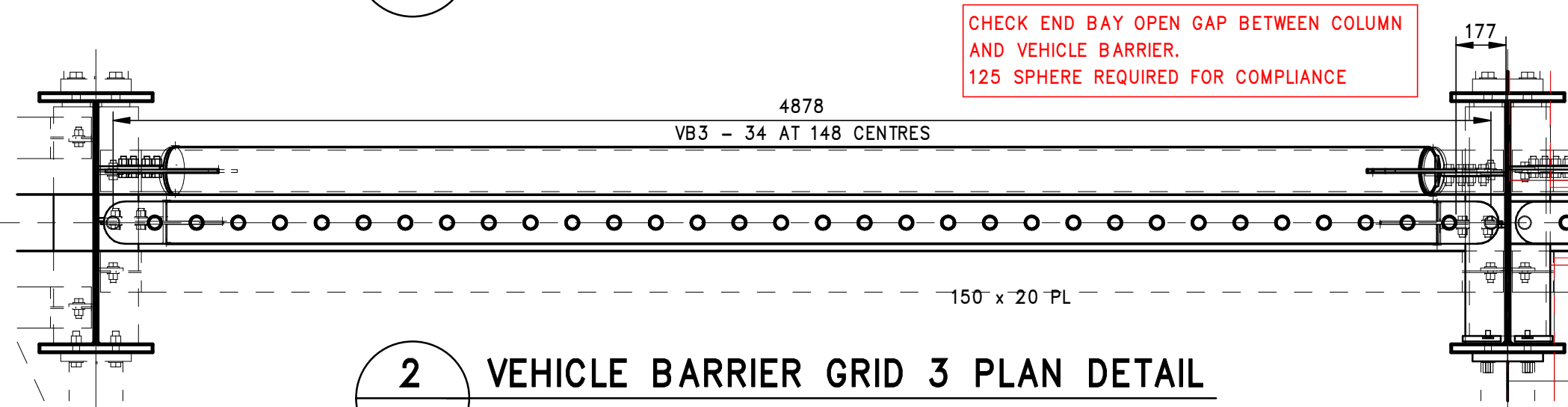
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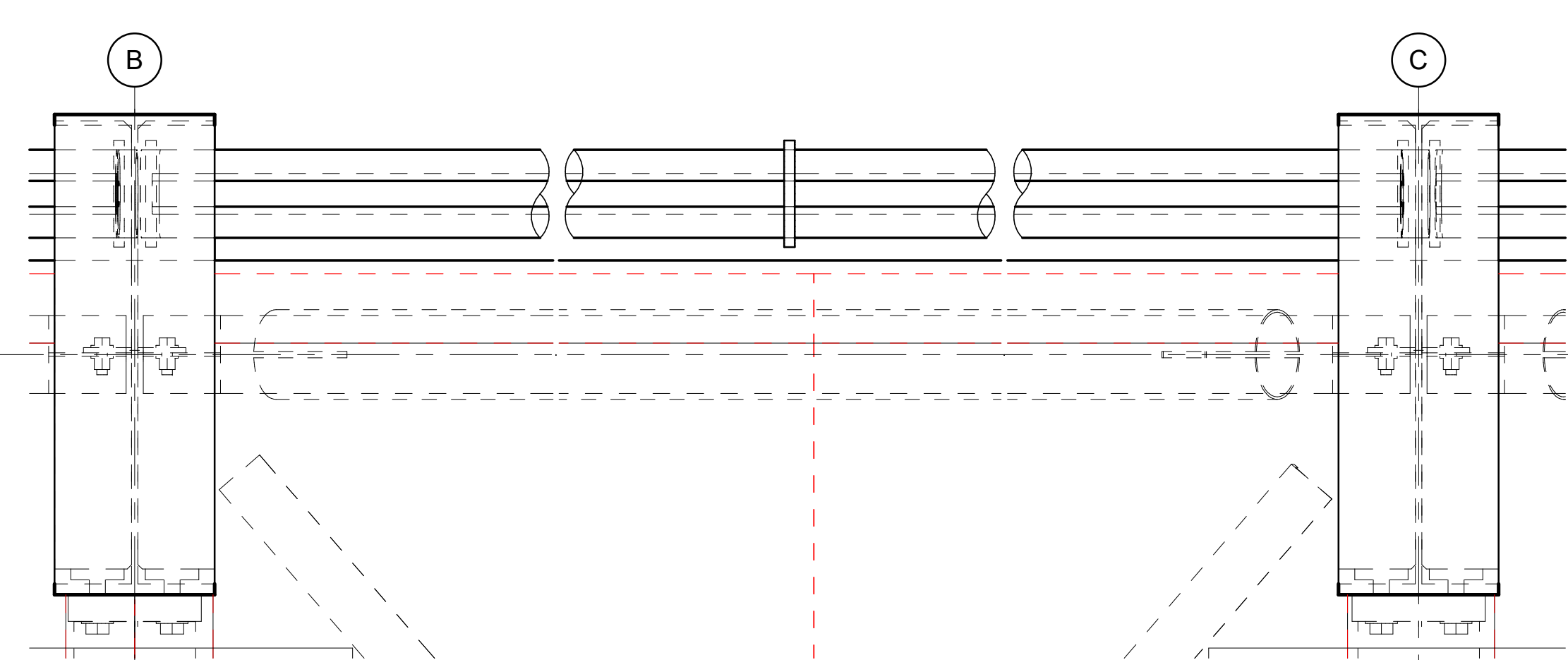
1 VEHICLE BARRIER GRID 3 (B-C) ELEVATION
A09 1 : 20



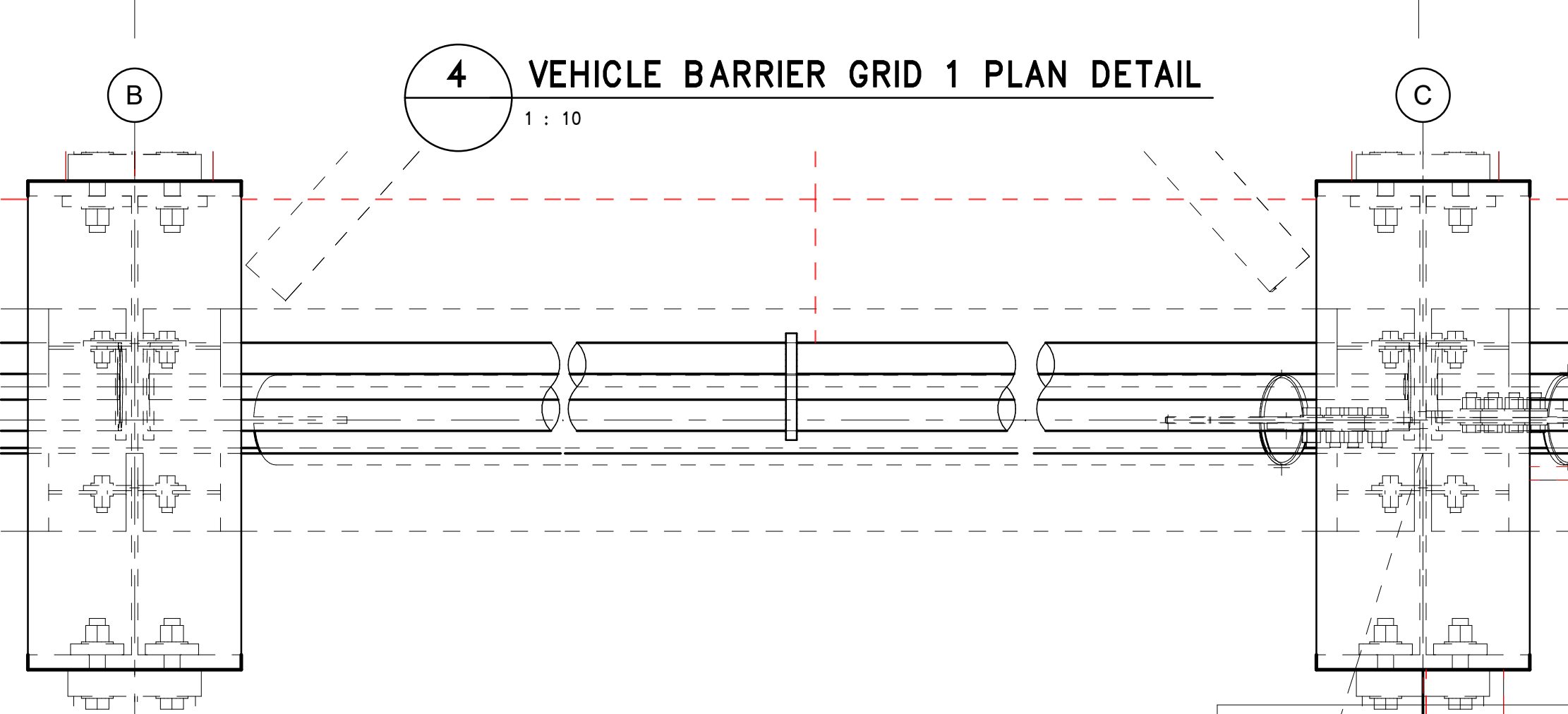
3 VEHICLE BARRIER GRID 3 SECTION
S314 1 : 20



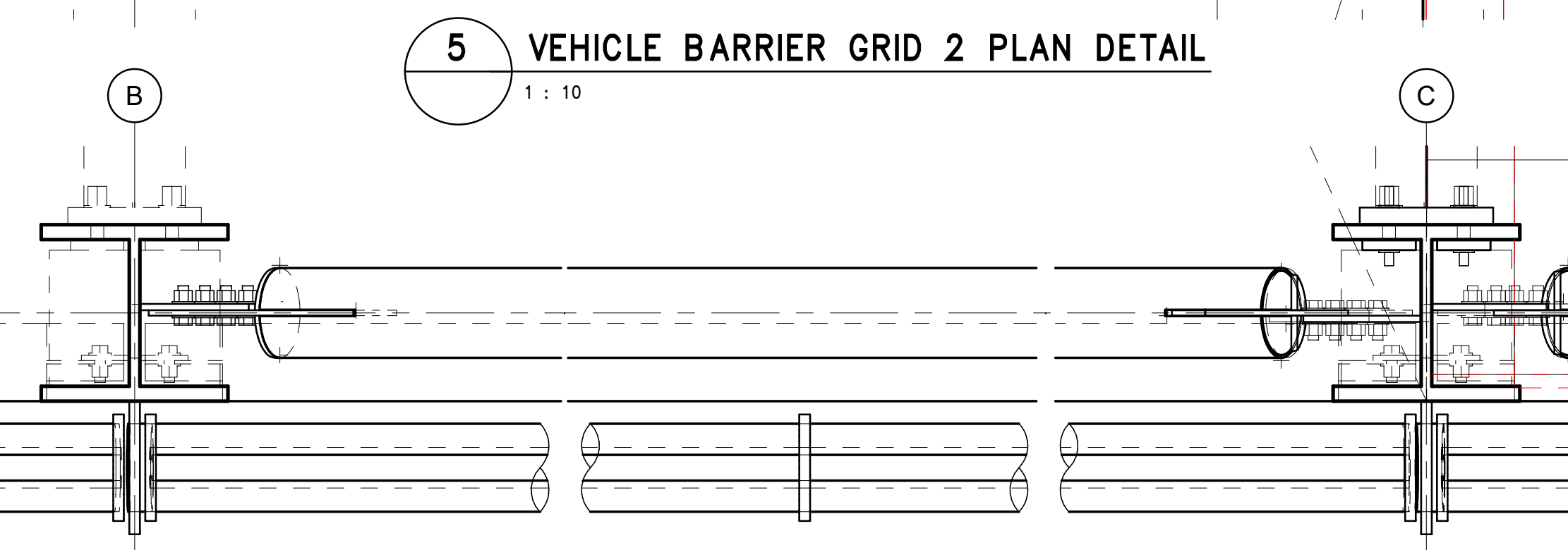
2 VEHICLE BARRIER GRID 3 PLAN DETAIL
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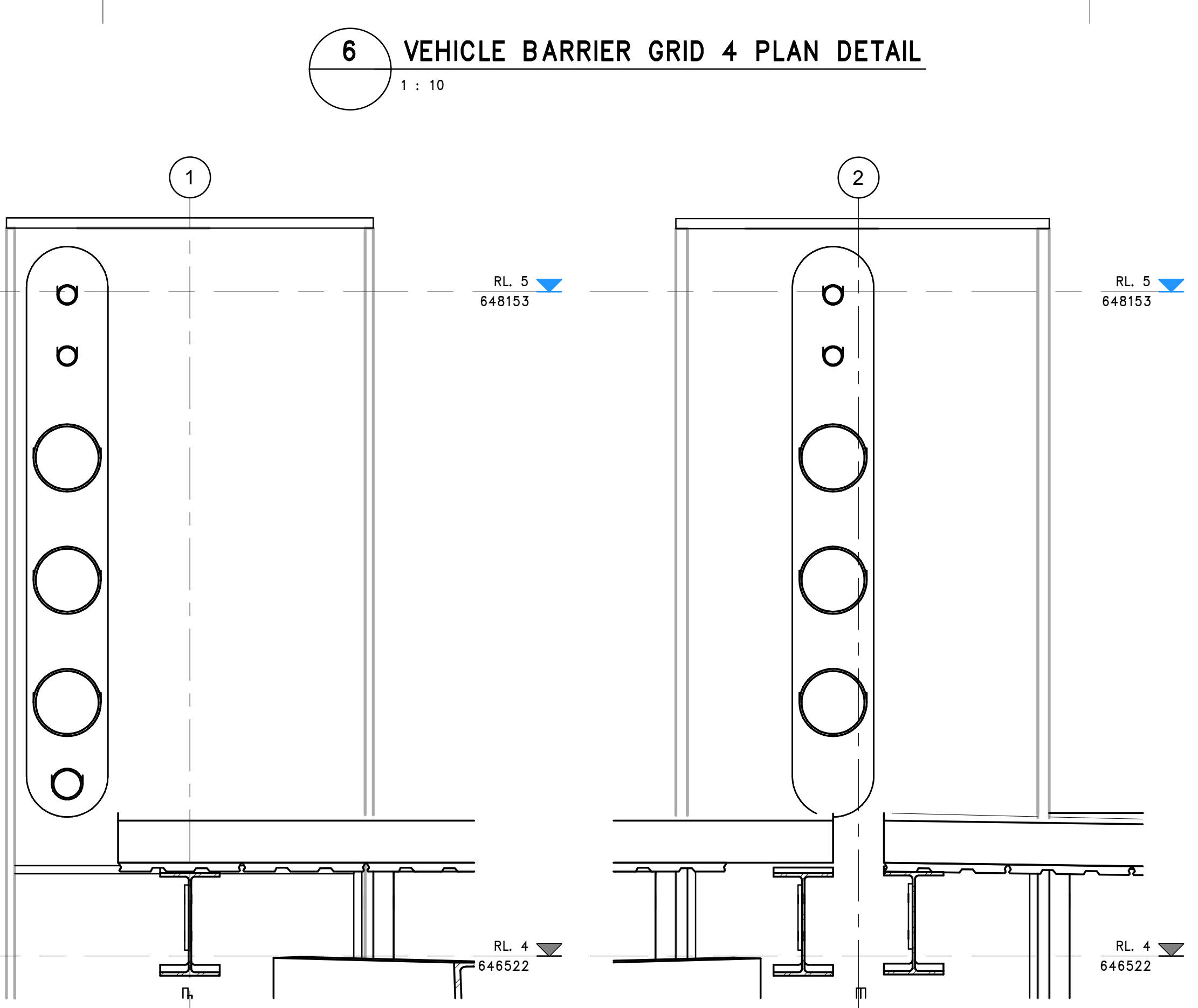
4 VEHICLE BARRIER GRID 1 PLAN DETAIL
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5 VEHICLE BARRIER GRID 2 PLAN DETAIL
1 : 10

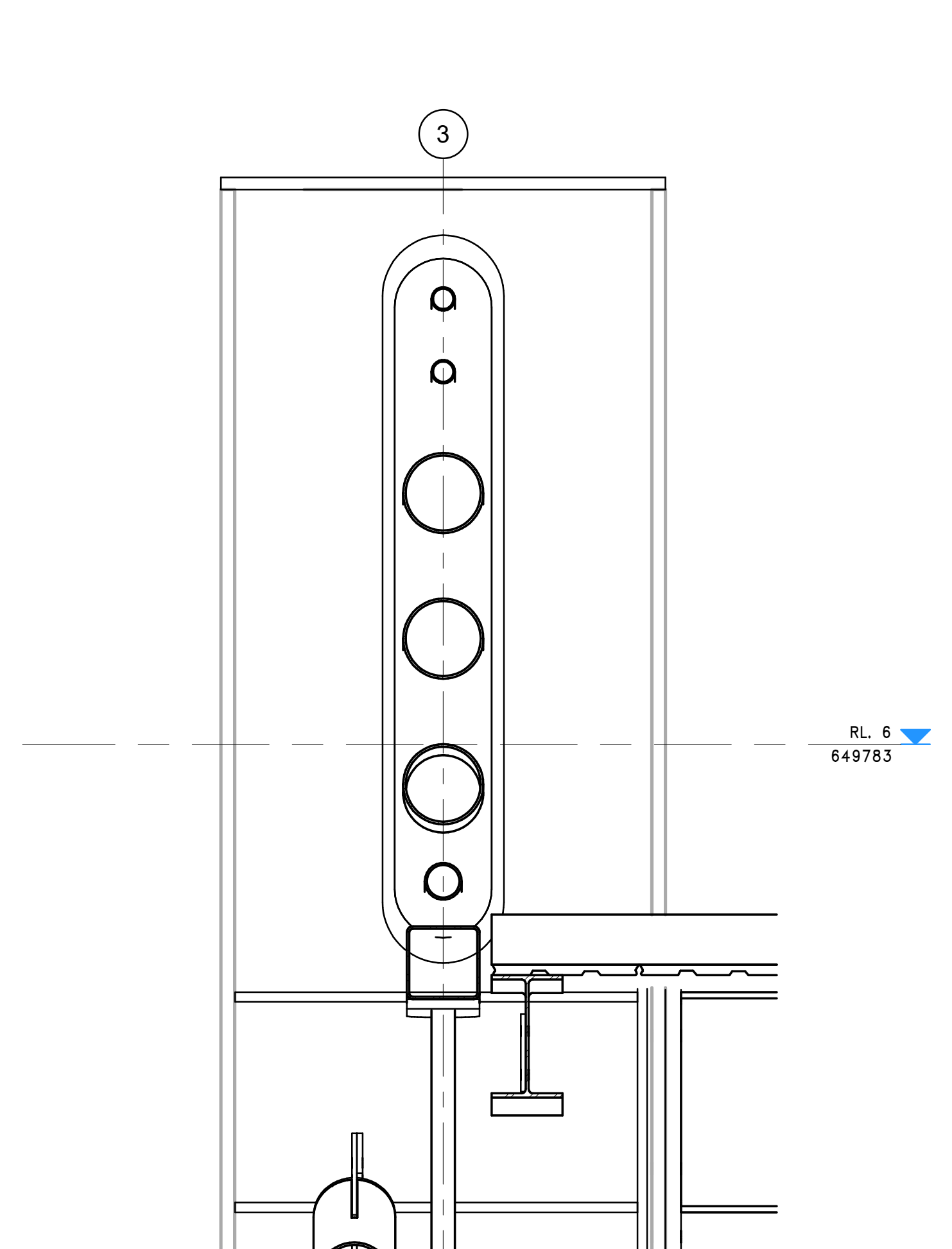


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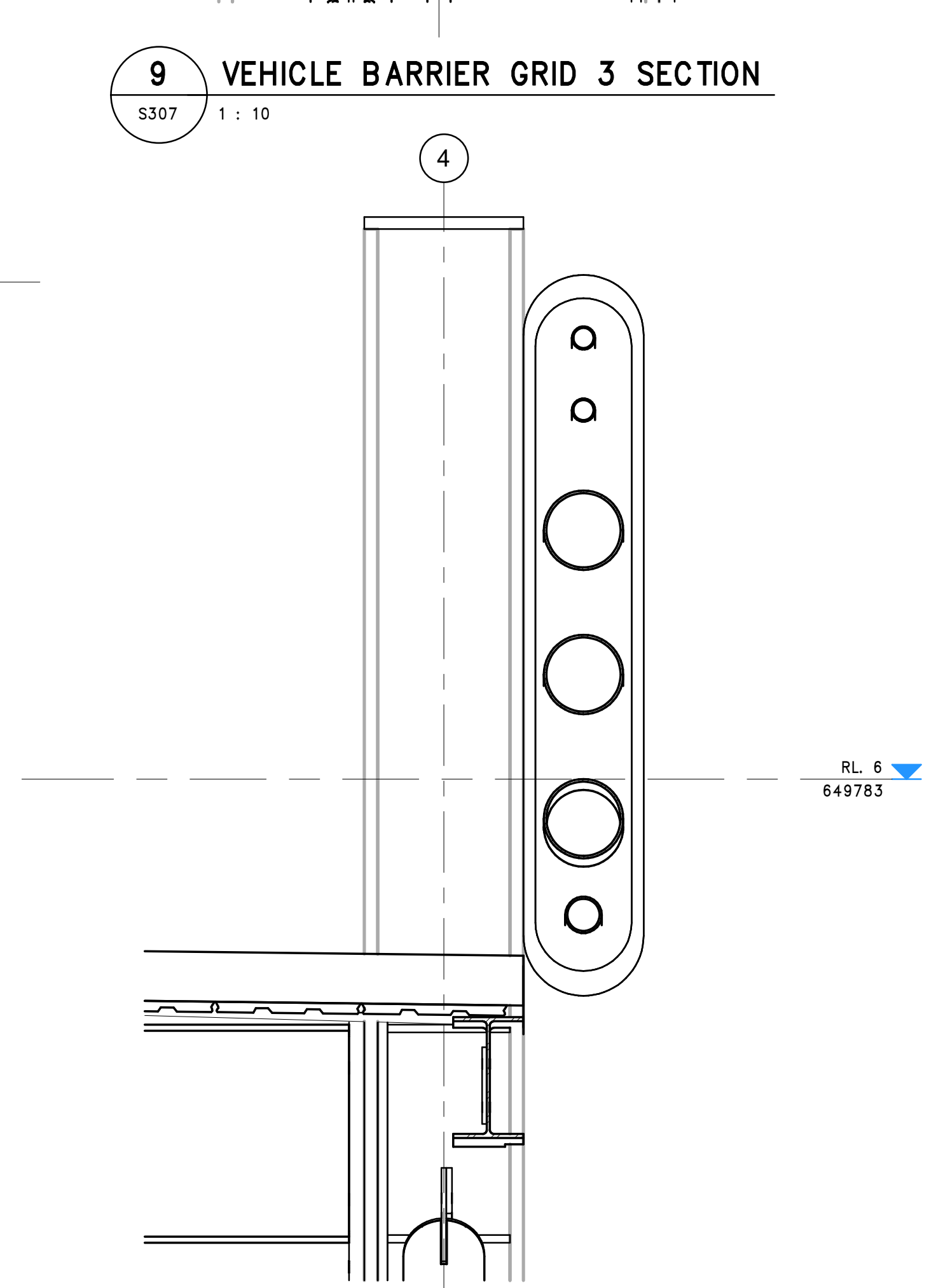


7 VEHICLE BARRIER GRID 1 SECTION
S307 1 : 10

8 VEHICLE BARRIER GRID 2 SECTION
S307 1 : 10

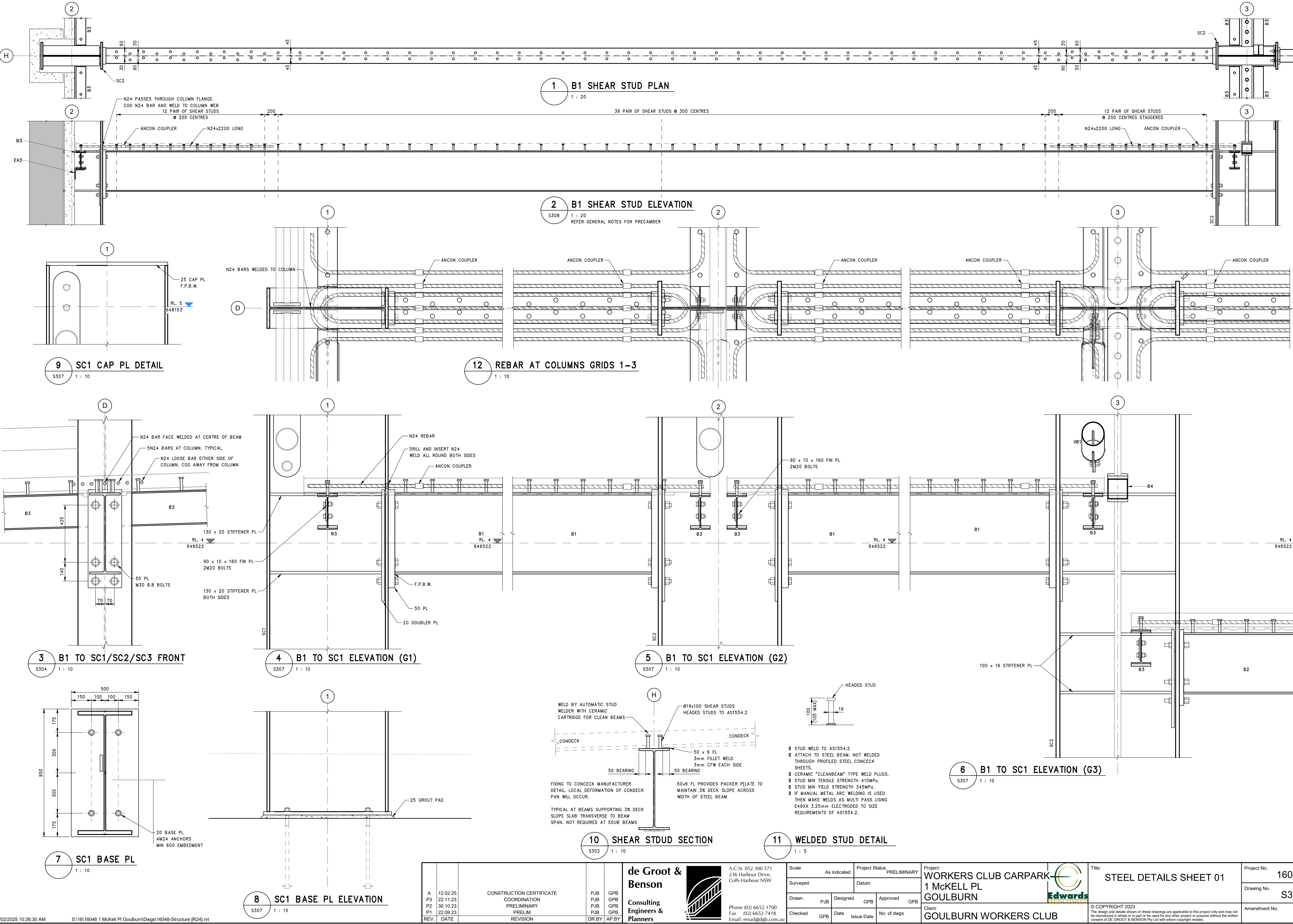


9 VEHICLE BARRIER GRID 3 SECTION
S307 1 : 10

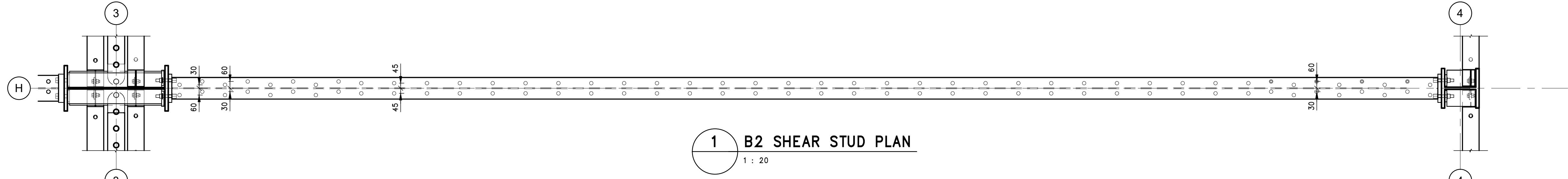


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S307 1 : 10

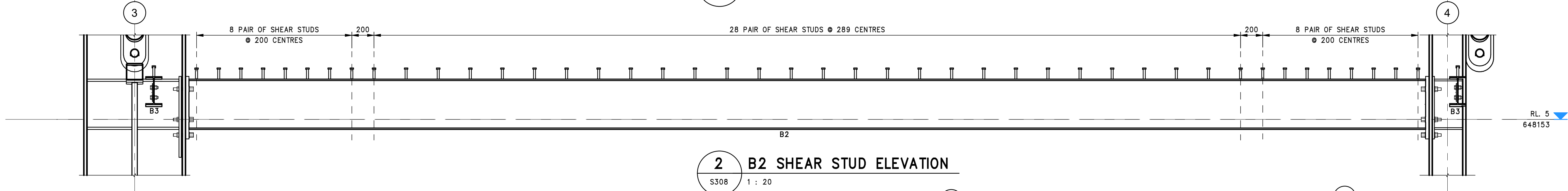
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				COORDINATION		PJB		GPB		Consulting Engineers & Planners		Phone (02) 6652 1700		Surveyed				Datum										Drawing No. S314	
				PRELIMINARY		PJB		GPB		Drawing		Fax (02) 6652 7418		PJB		Designed		GPB		Approved		GPB						Amendment No. A	
REV.		DATE		REVISION		DR.BY		AP.BY		Email: email@dgbc.com.au				Checked		GPB		Date		Issue Date		No. of dwgs		Client: GOULBURN WORKERS CLUB					



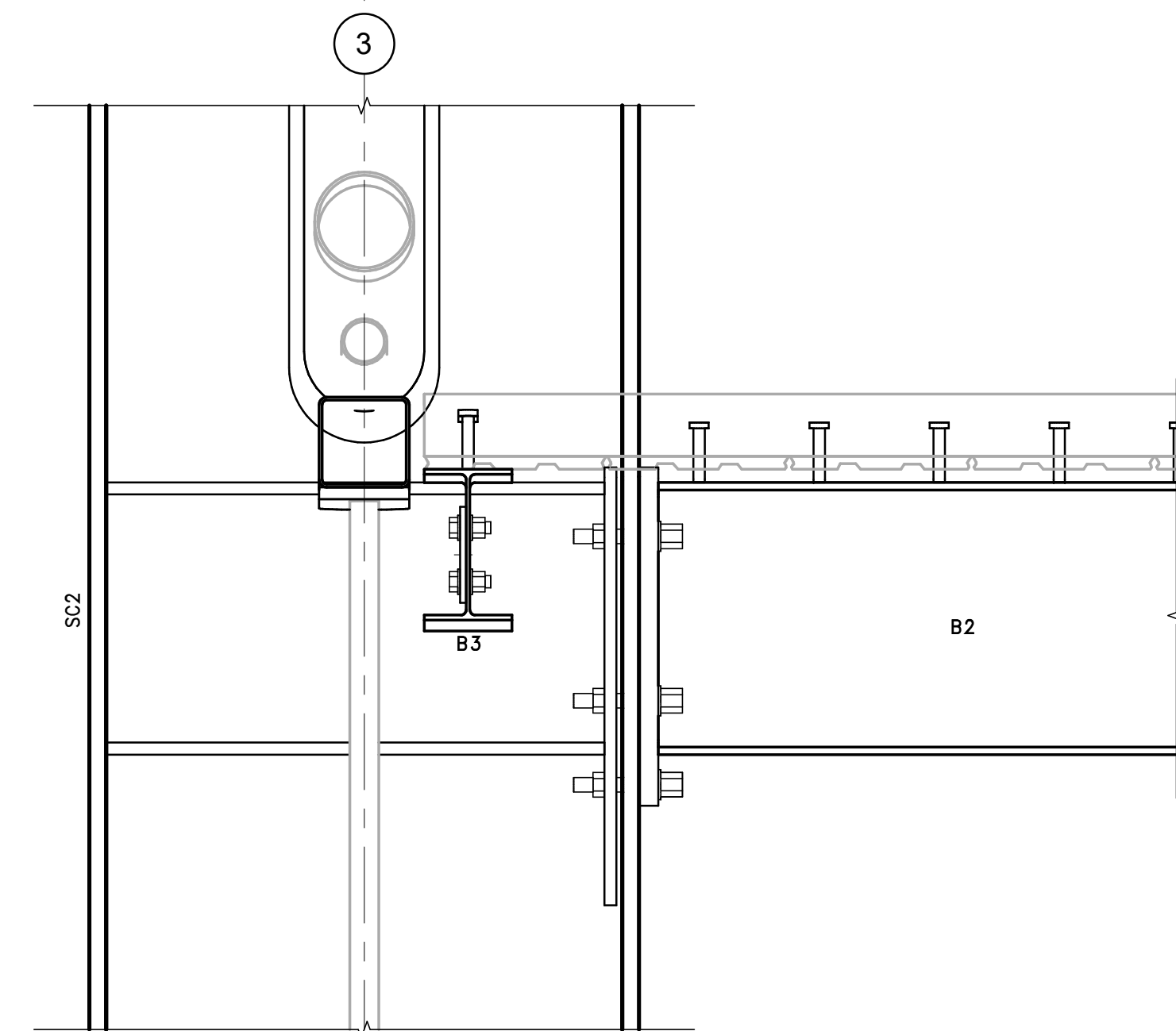
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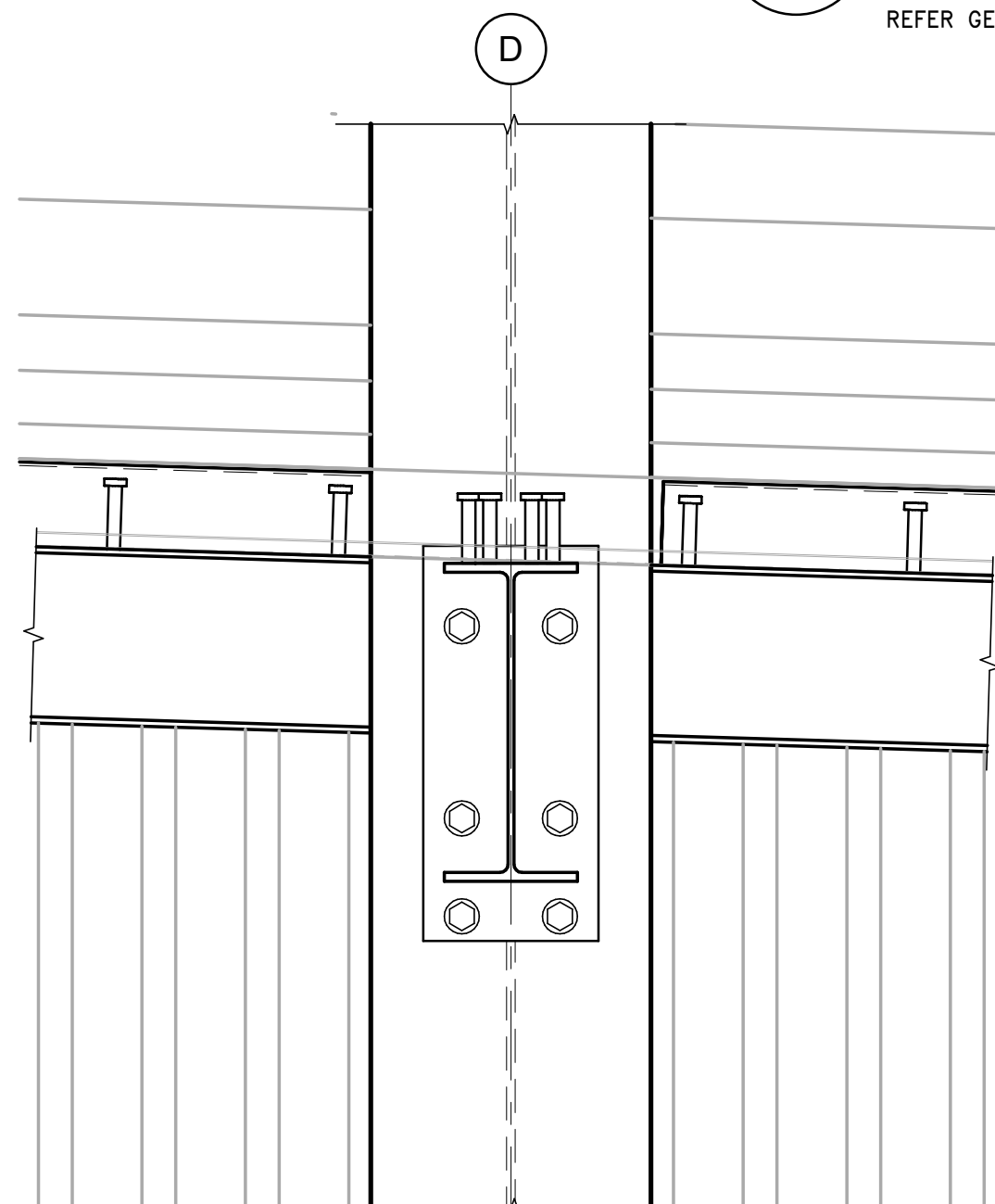
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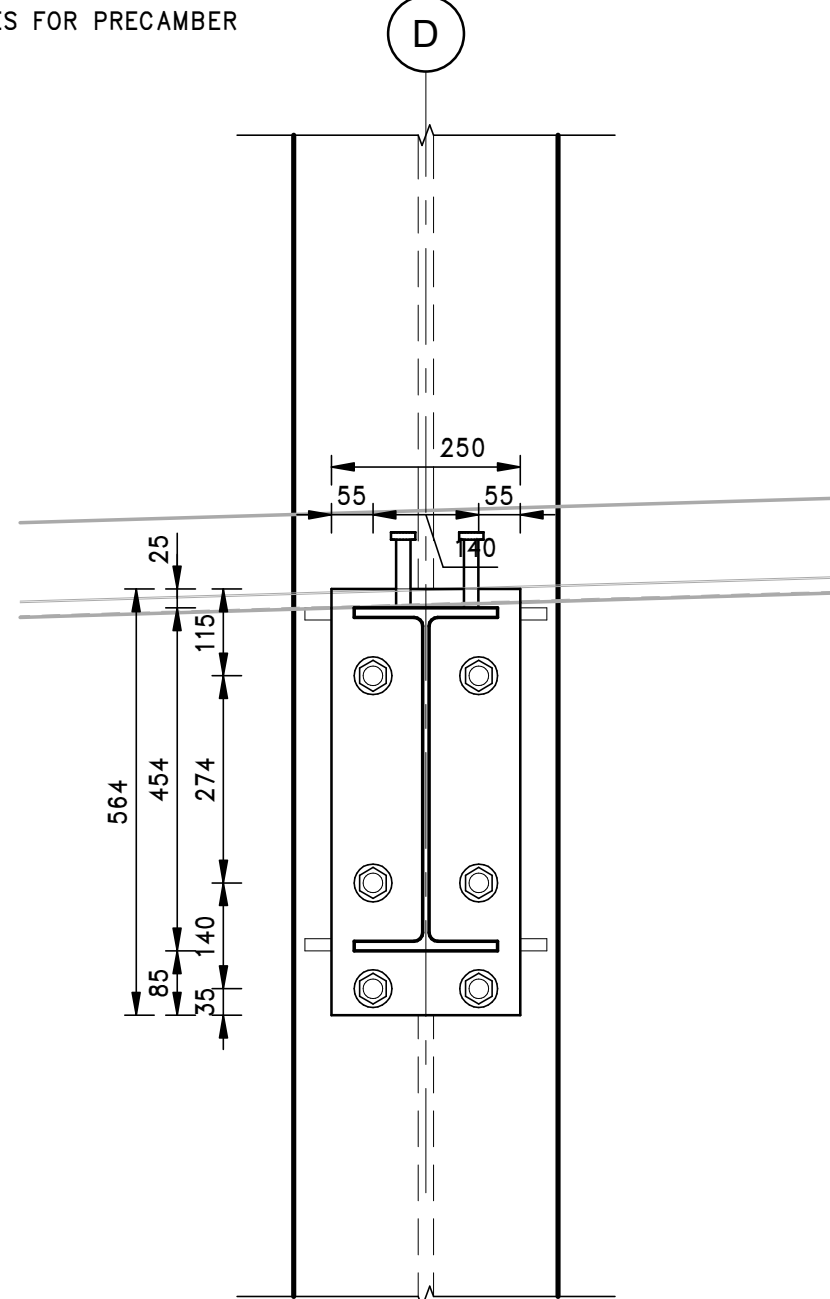
2 B2 SHEAR STUD ELEVATION
S308 1 : 20
REFER GENERAL NOTES FOR PRECAMBER



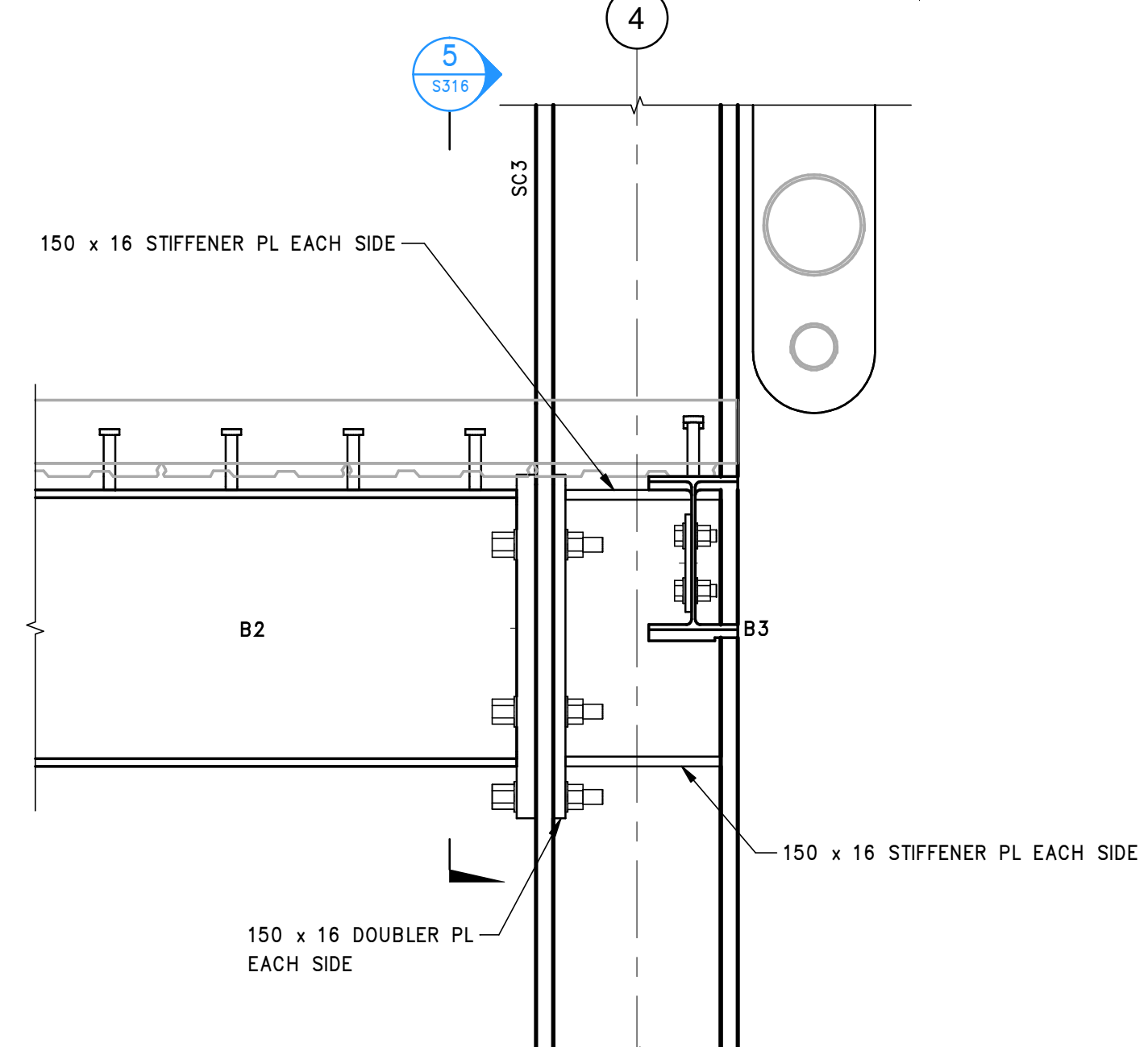
3 B2 TO SC1 SIDE
S307 1 : 10



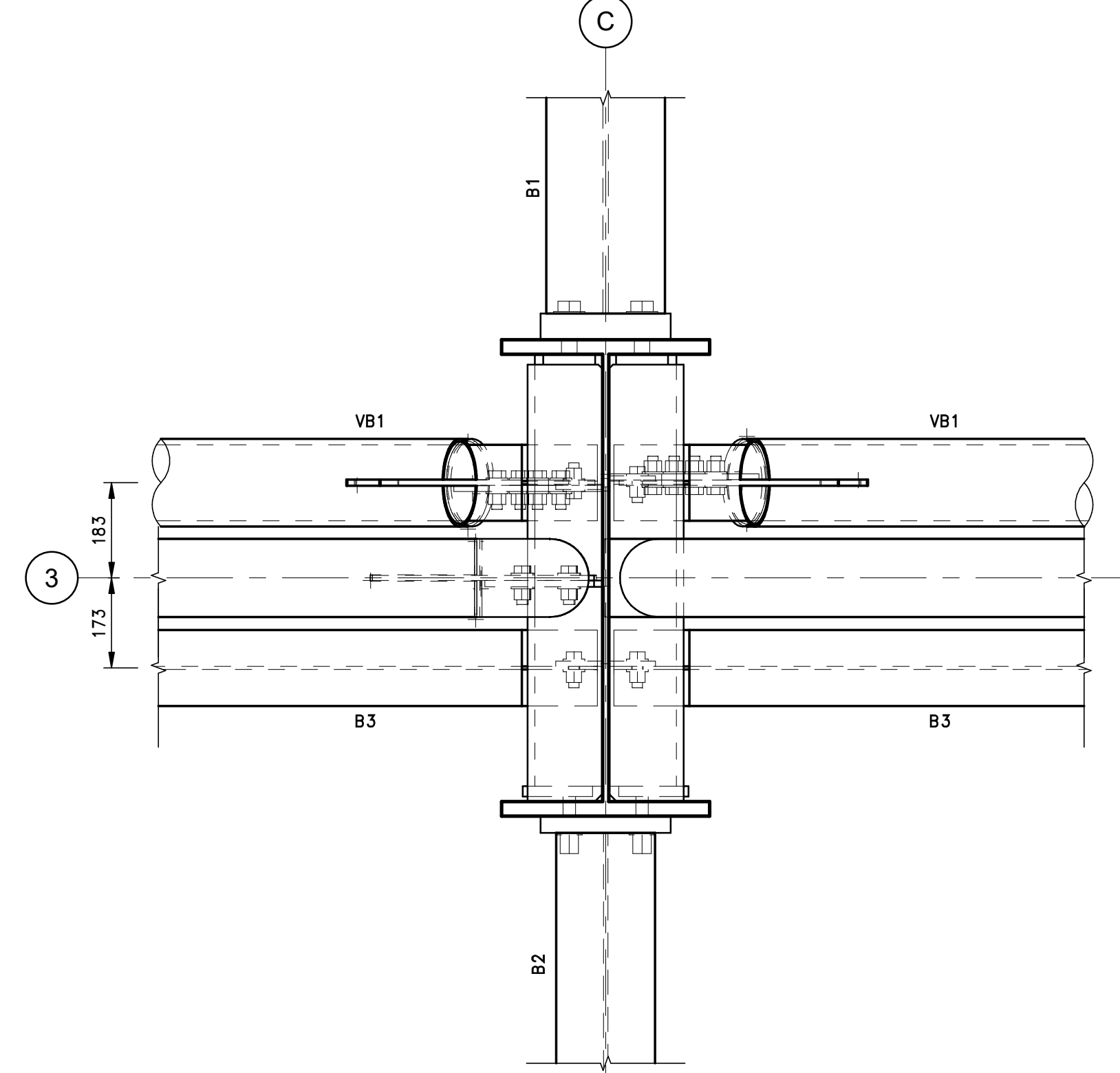
4 B2 TO SC1 FRONT
S305 1 : 10



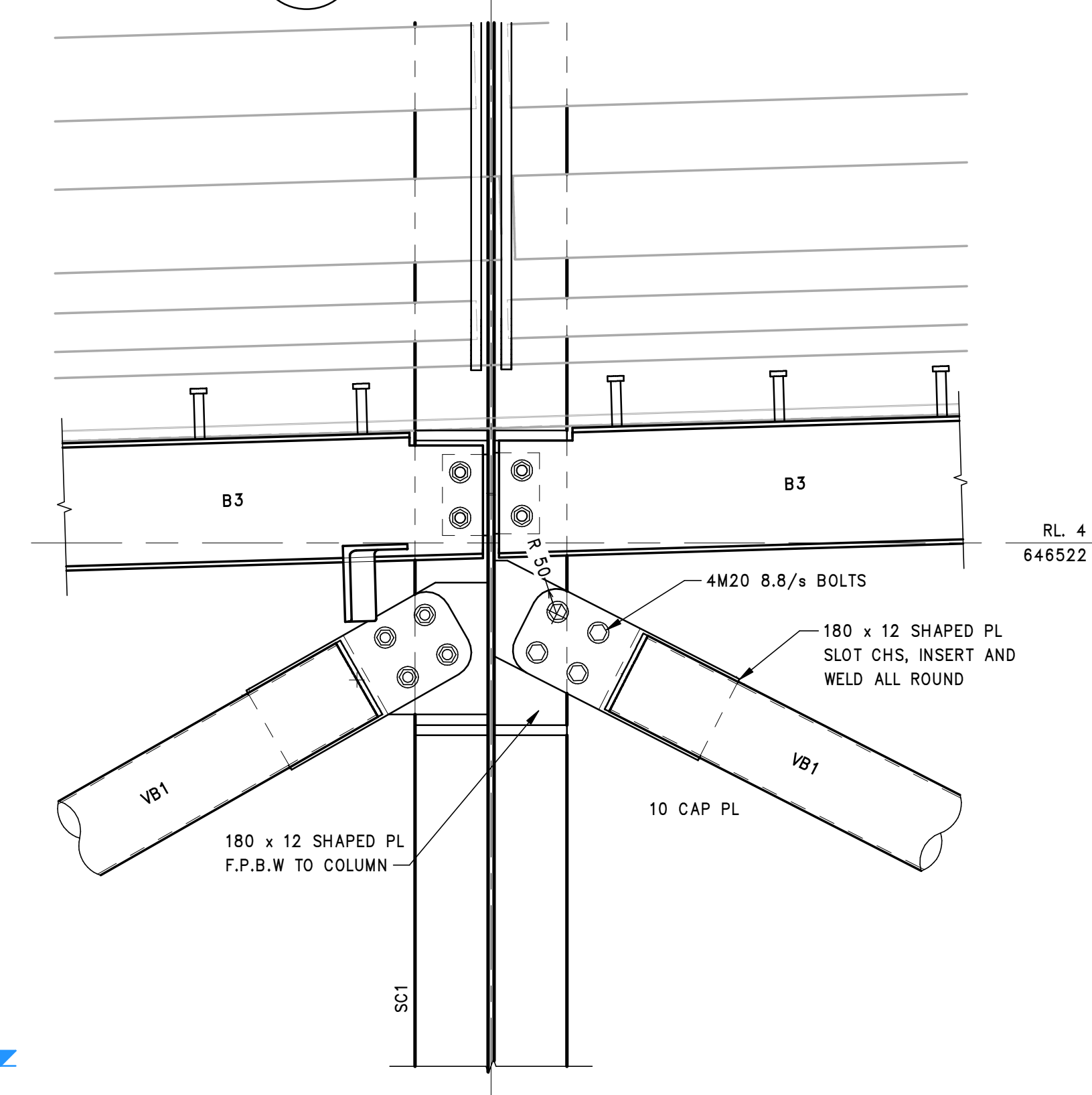
5 B2 TO SC3 FRONT
S316 1 : 10



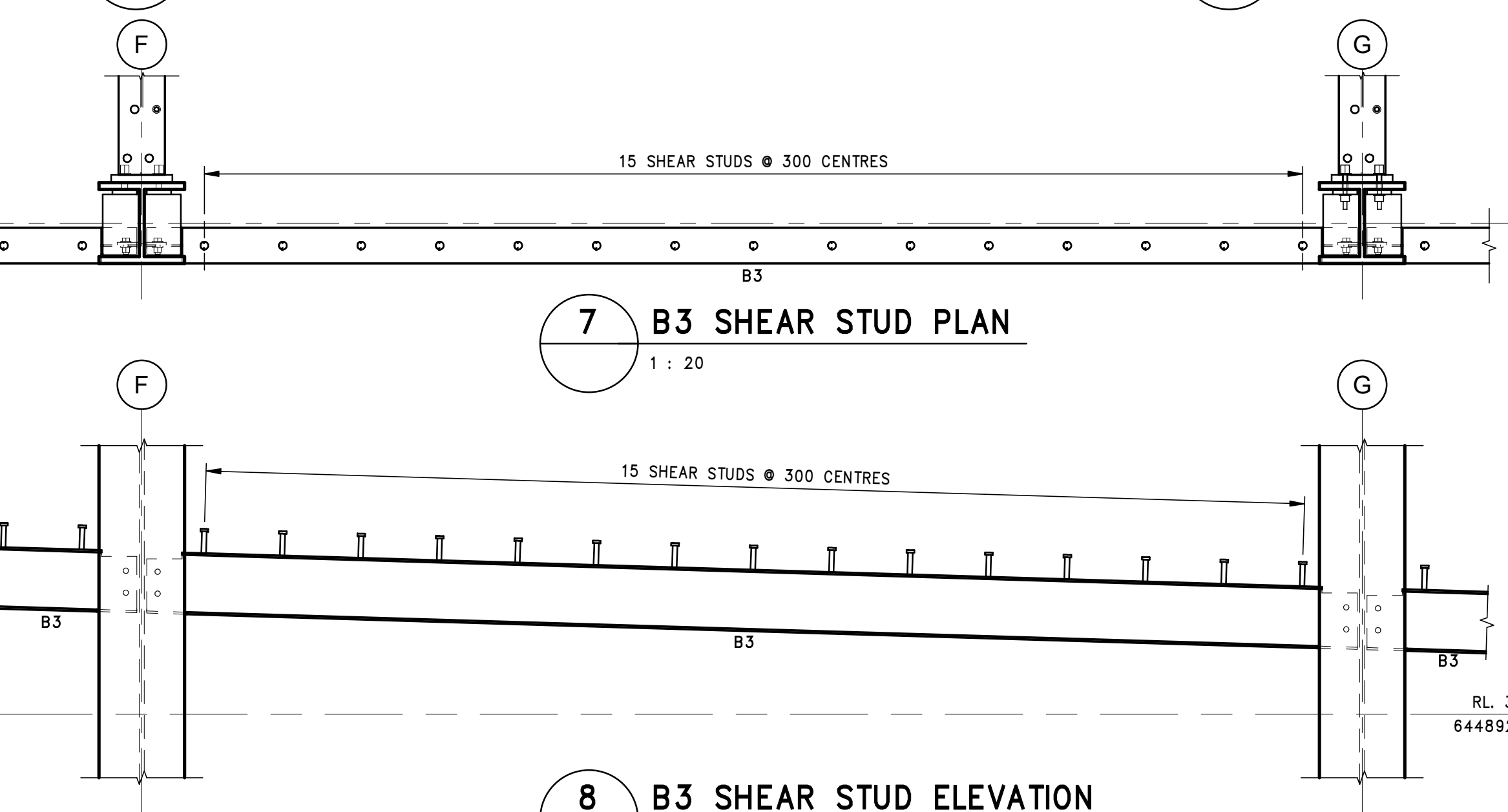
6 B2 TO SC3 SIDE
S307 1 : 10



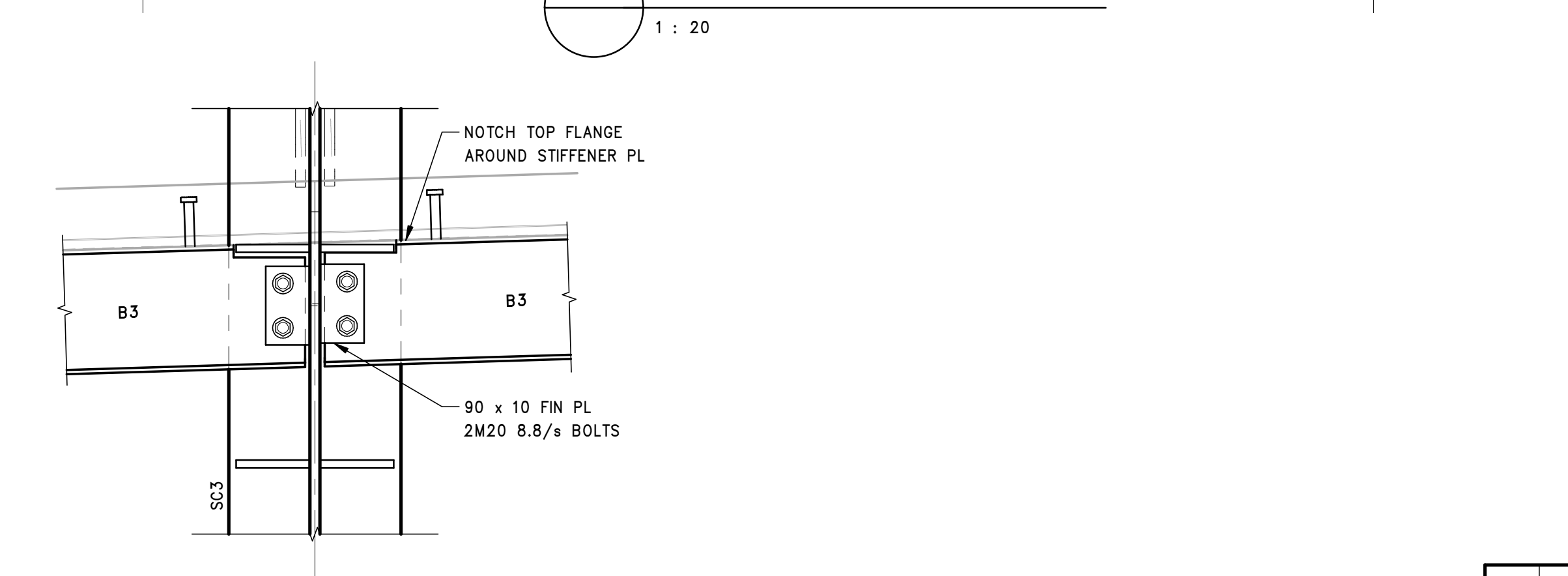
10 VB1 GRID 3 PLAN
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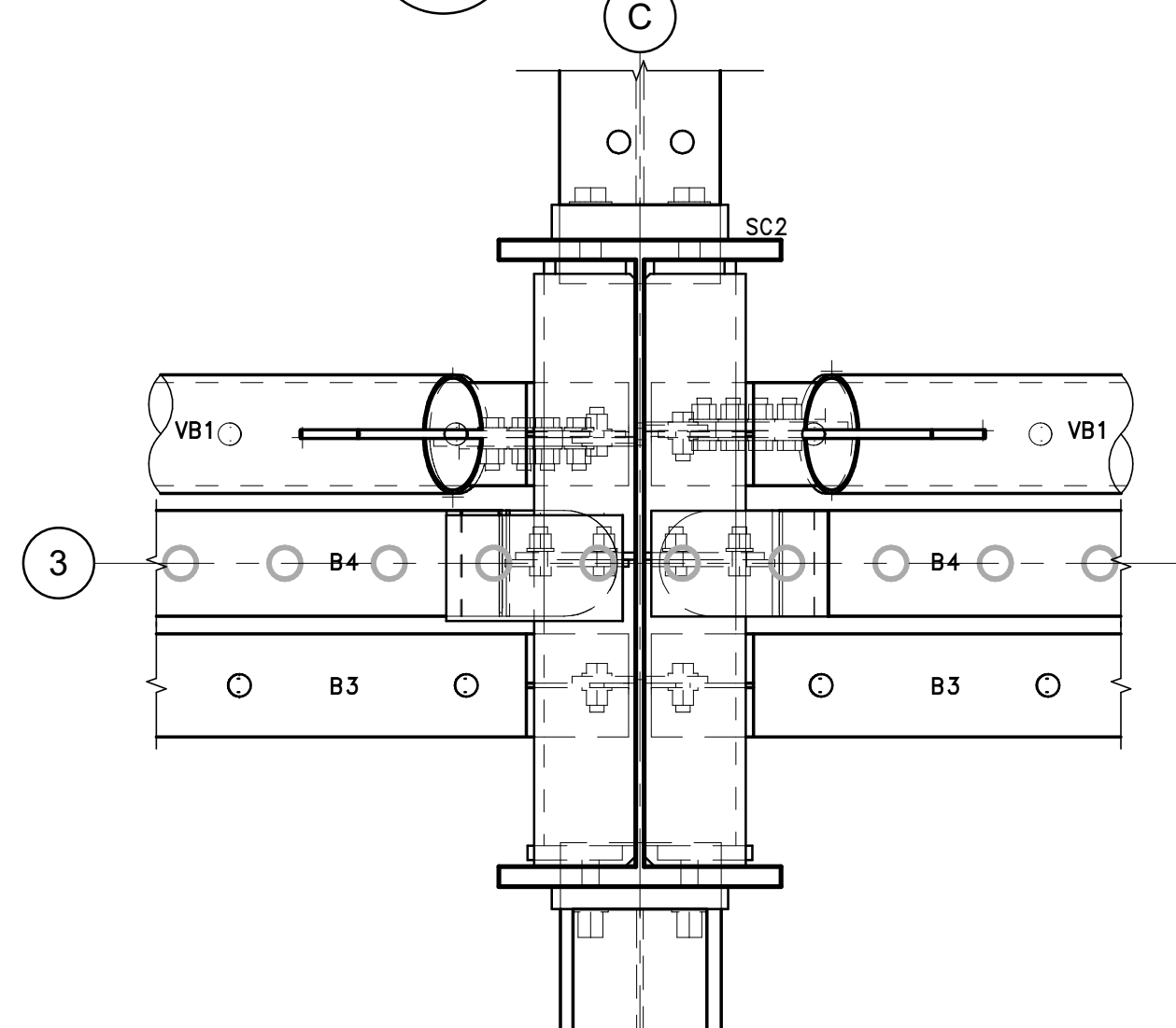
11 VB1 BRACING SIDE
S302 1 : 10



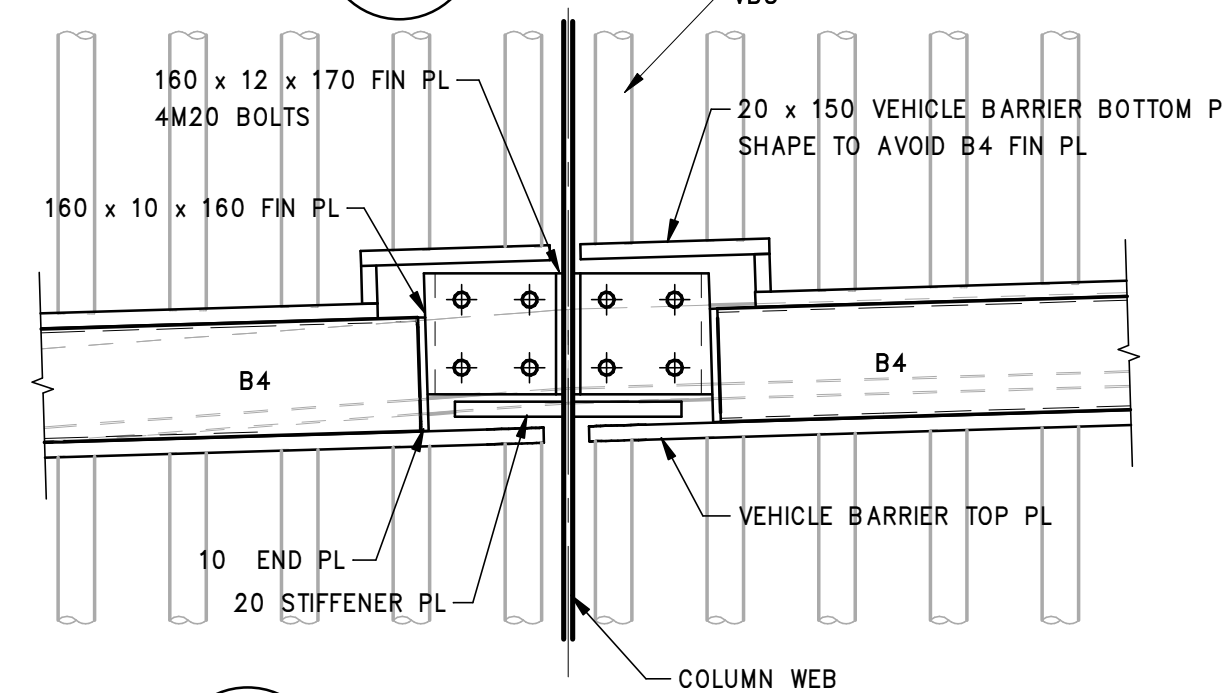
7 B3 SHEAR STUD PLAN
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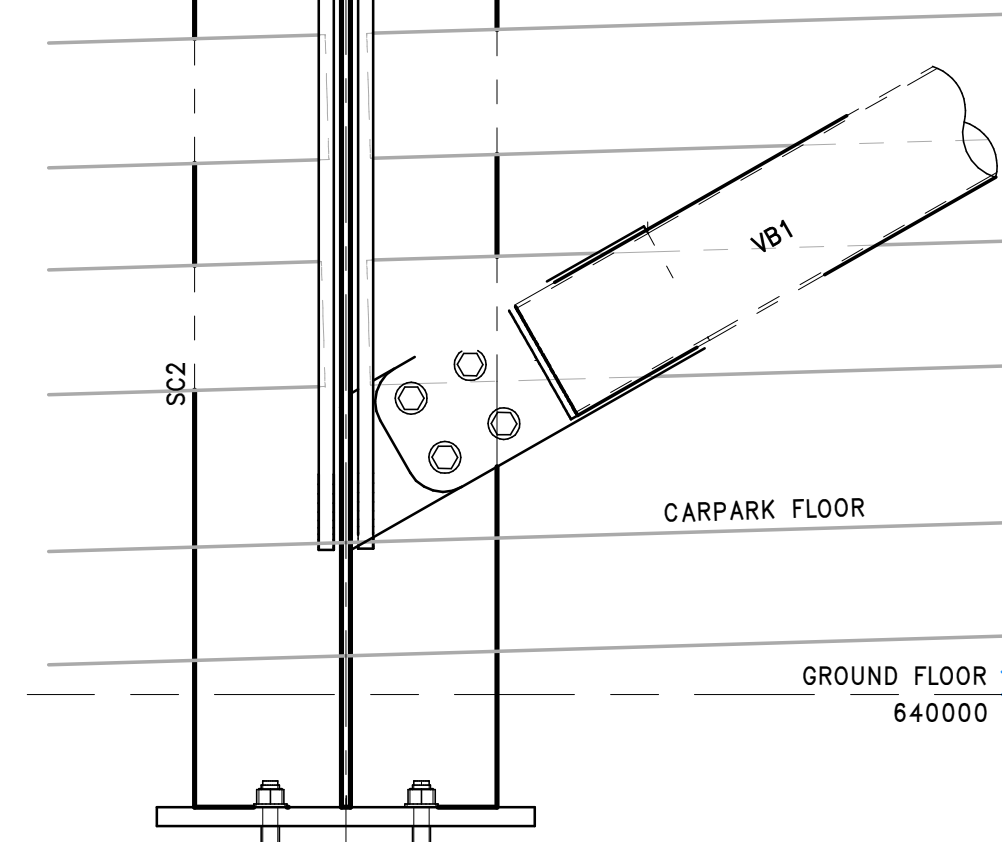
8 B3 SHEAR STUD ELEVATION
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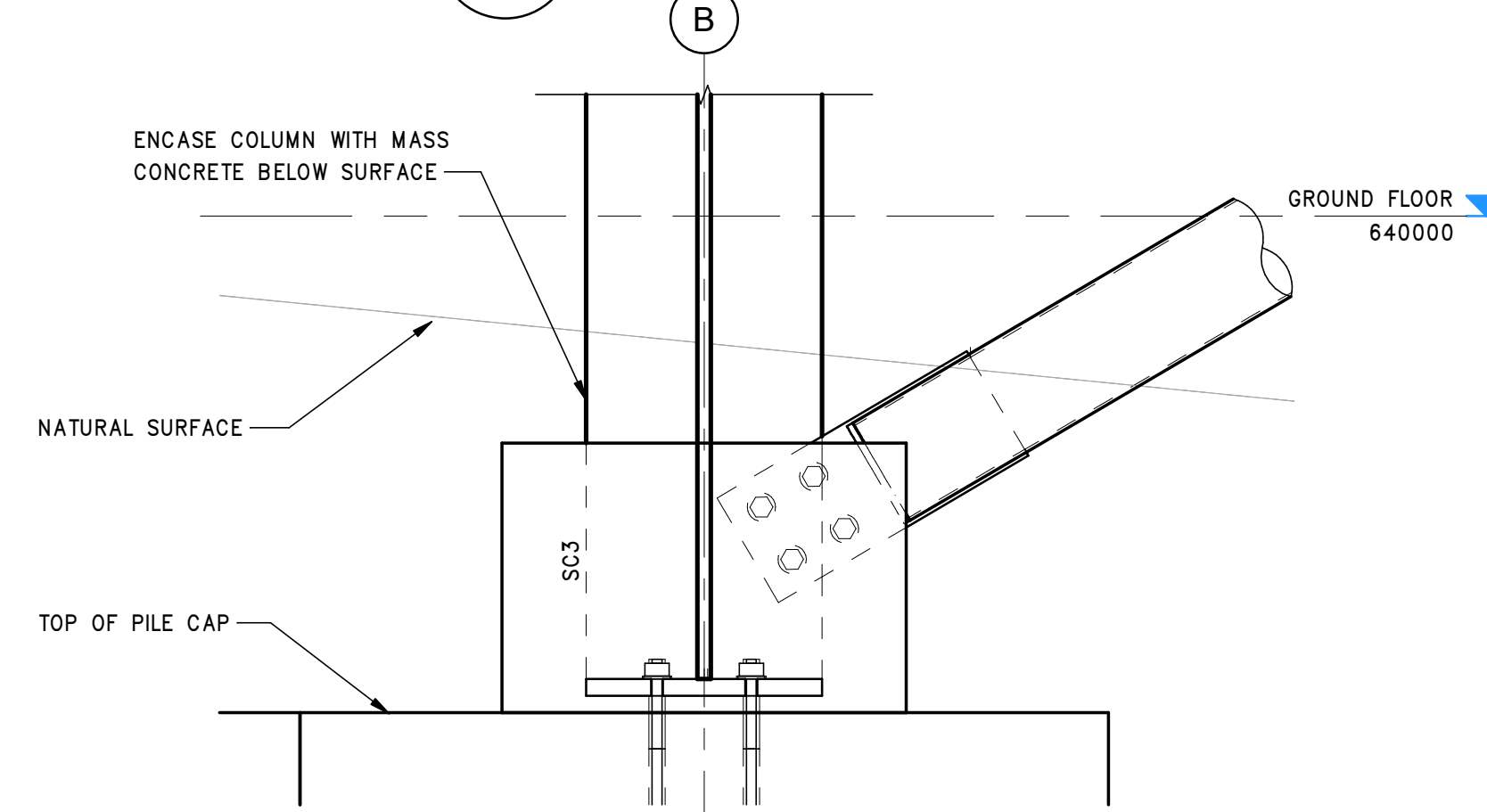
15 B4 TO SC2 PLAN
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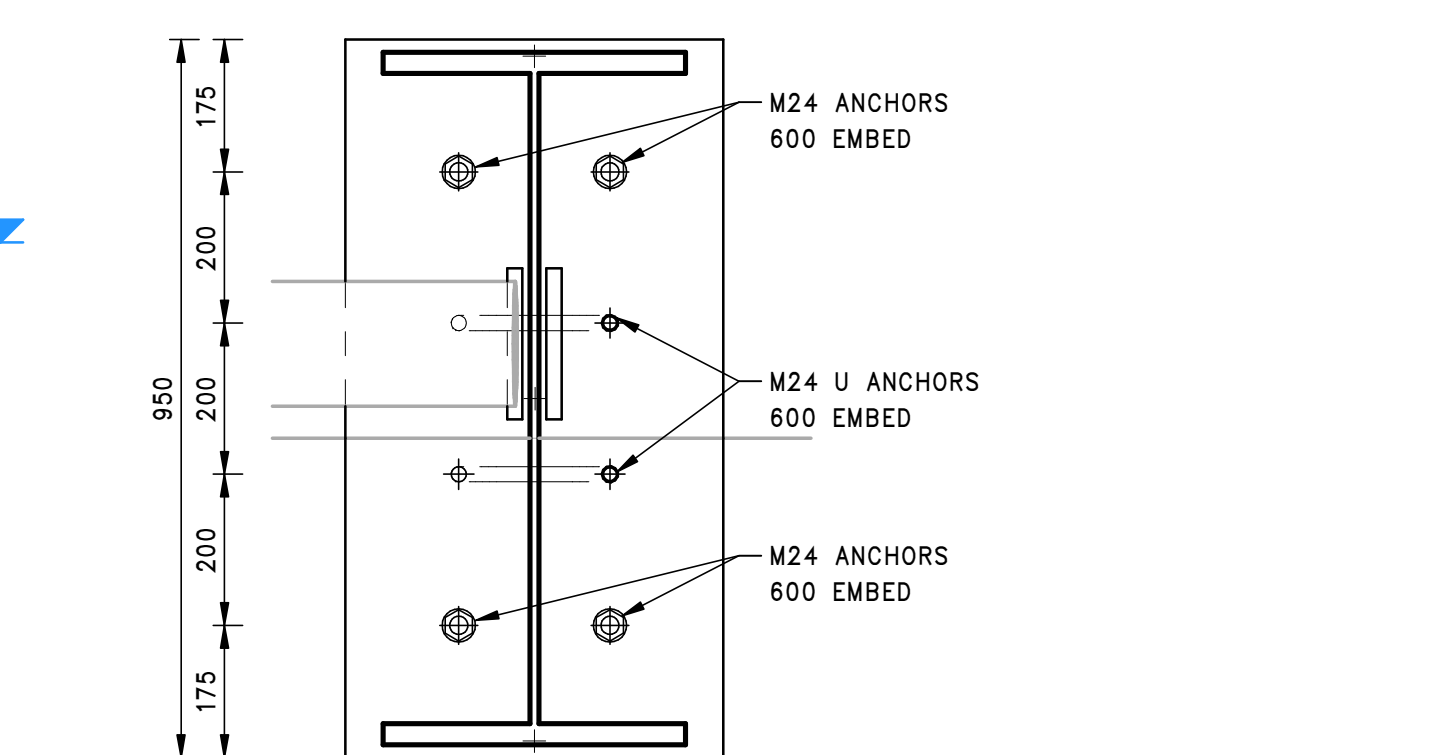
16 B4 TO SC2 ELEVATION
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13 VB1 BRACING BASE AT FLOOR
S300 1 : 10



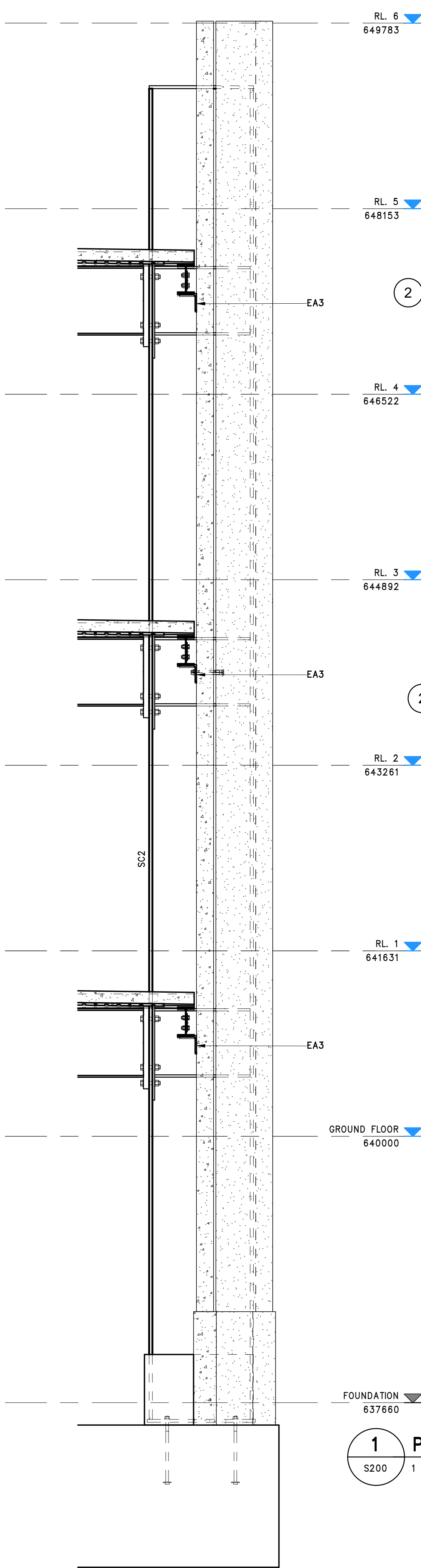
14 VB1 TO COLUMN BELOW SURFACE
S300 1 : 10



12 SC1 BASE PL FOR BRACED FRAME
1 : 10

9 B3 TO COLUMN ELEVATION
1 : 10

A		12.02.25	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY PRELIM REVISION	PJB PJB PJB PJB	GPB GPB GPB GPB	de Groot & Benson Consulting Engineers & Planners		A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au	Scale		Project Status		Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN Client: GOULBURN WORKERS CLUB		Title: STEEL DETAILS SHEET 02	Project No.	160					
P3		22.11.23							Surveyed		Datum					Drawing No.	S3					
P2		30.10.23							Drawn		PJB	Designed				GPB	Approved		GPB	© COPYRIGHT 2023 The design and details shown on these drawings are applicable to this project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written consent of DE GROOT & BENSON Pty Ltd with whom copyright resides.	Amendment No.	
P1		22.09.23							Checked		GPB	Date				Issue Date	No. of dwgs					
REV	DATE								DR BY		AP BY											



RL. 6
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RL. 5
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RL. 3
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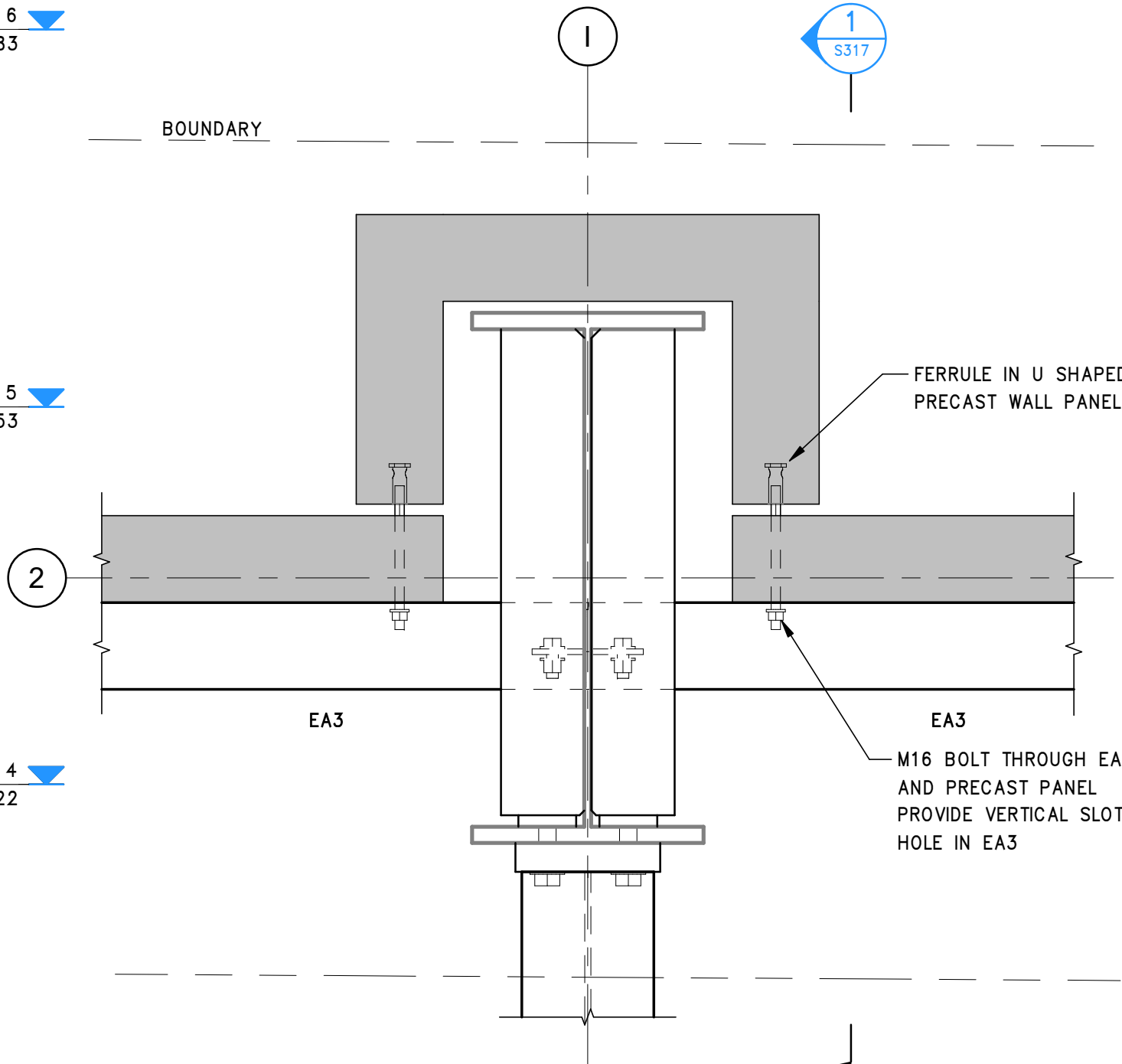
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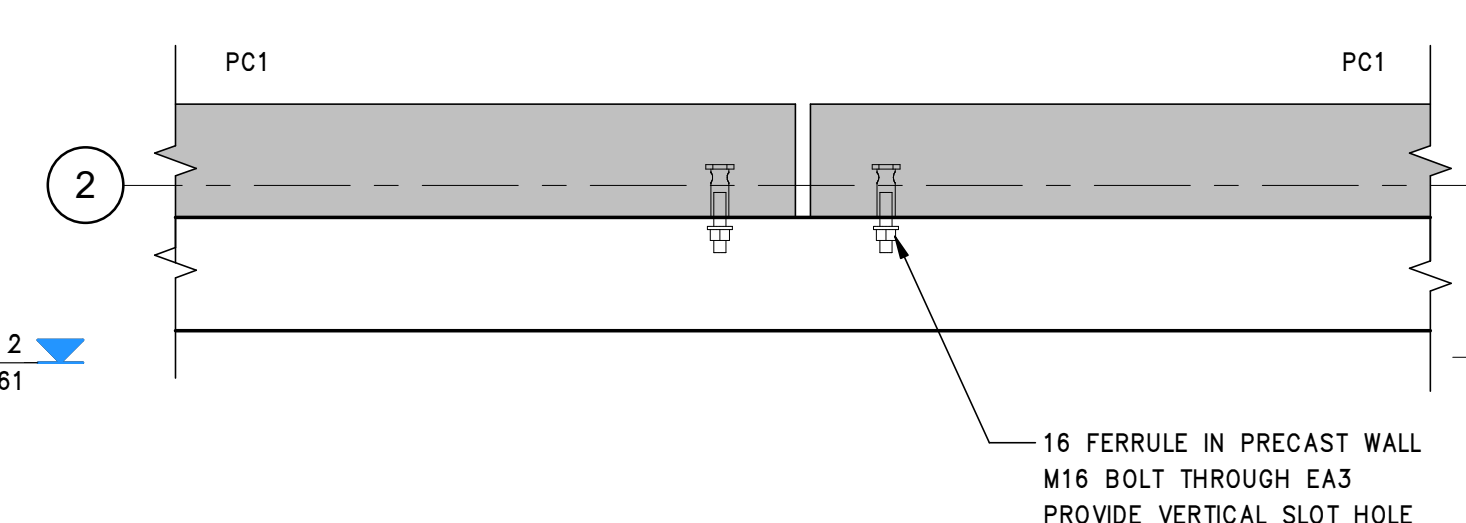
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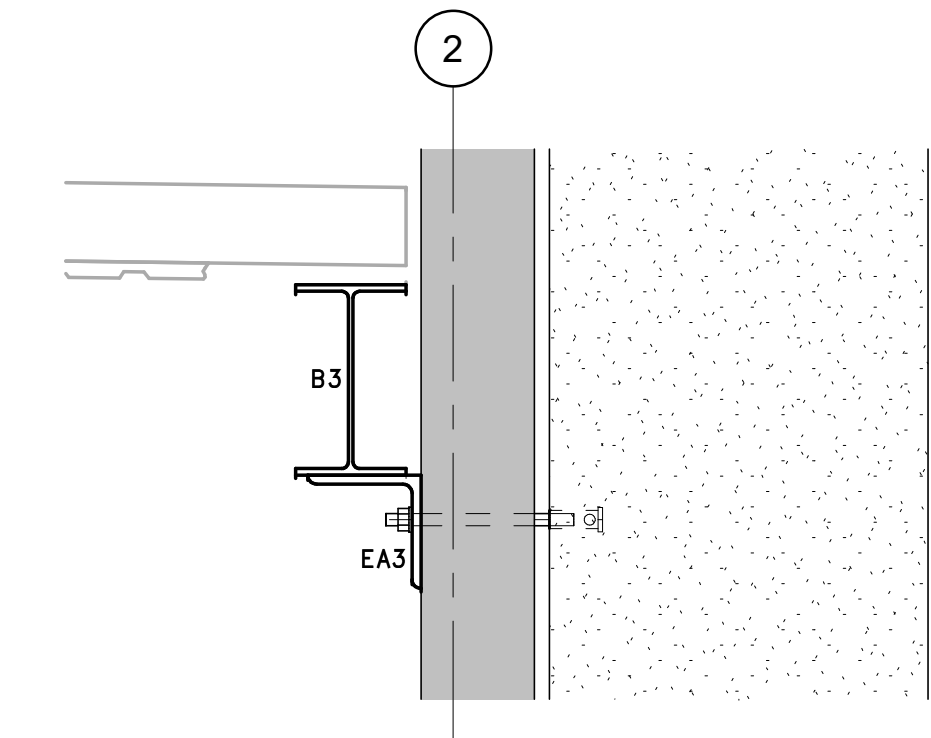
1 PRECAST WAL SECTION
S200 1 : 25



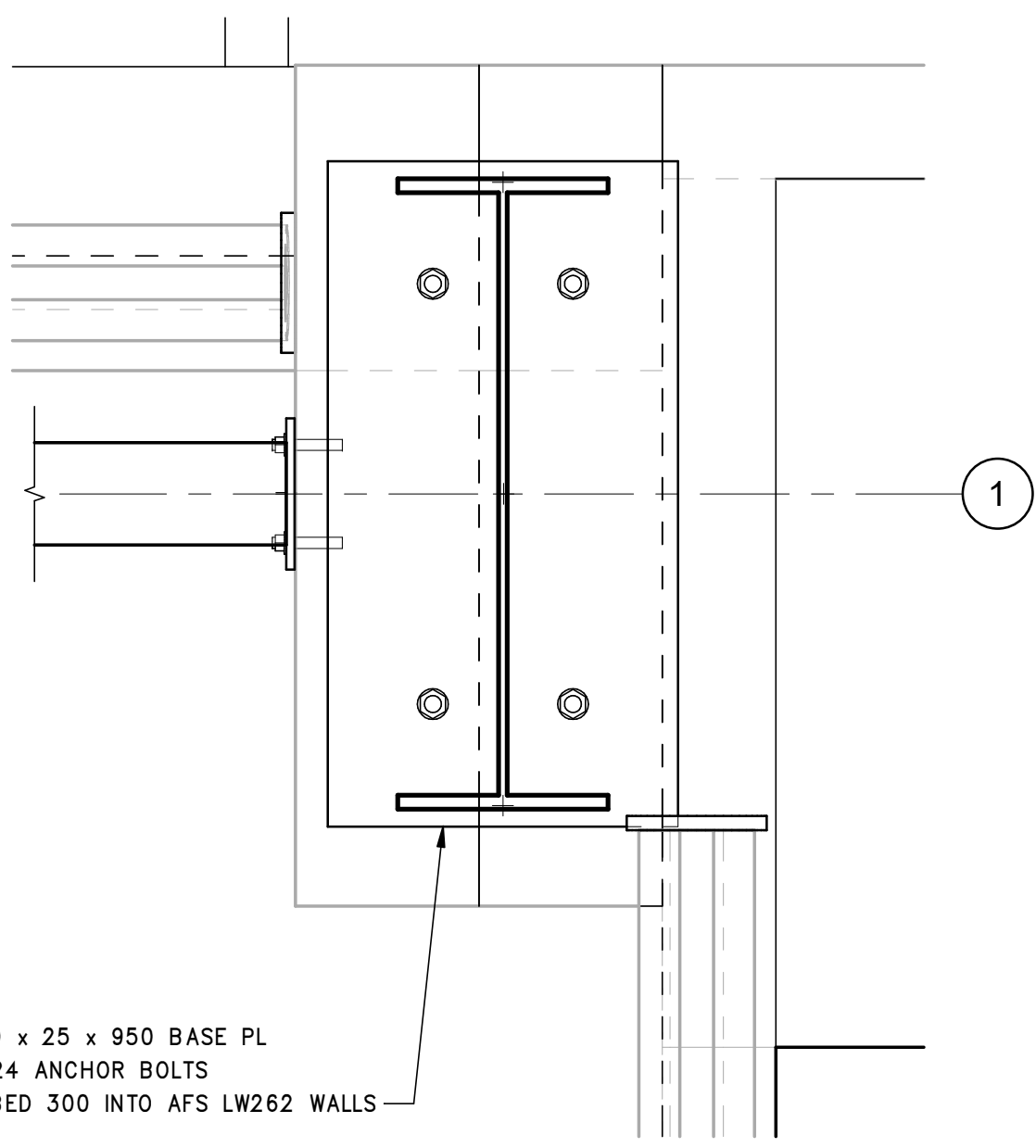
2 U SHAPED PRECAST WALL PLAN
S205 1 : 10



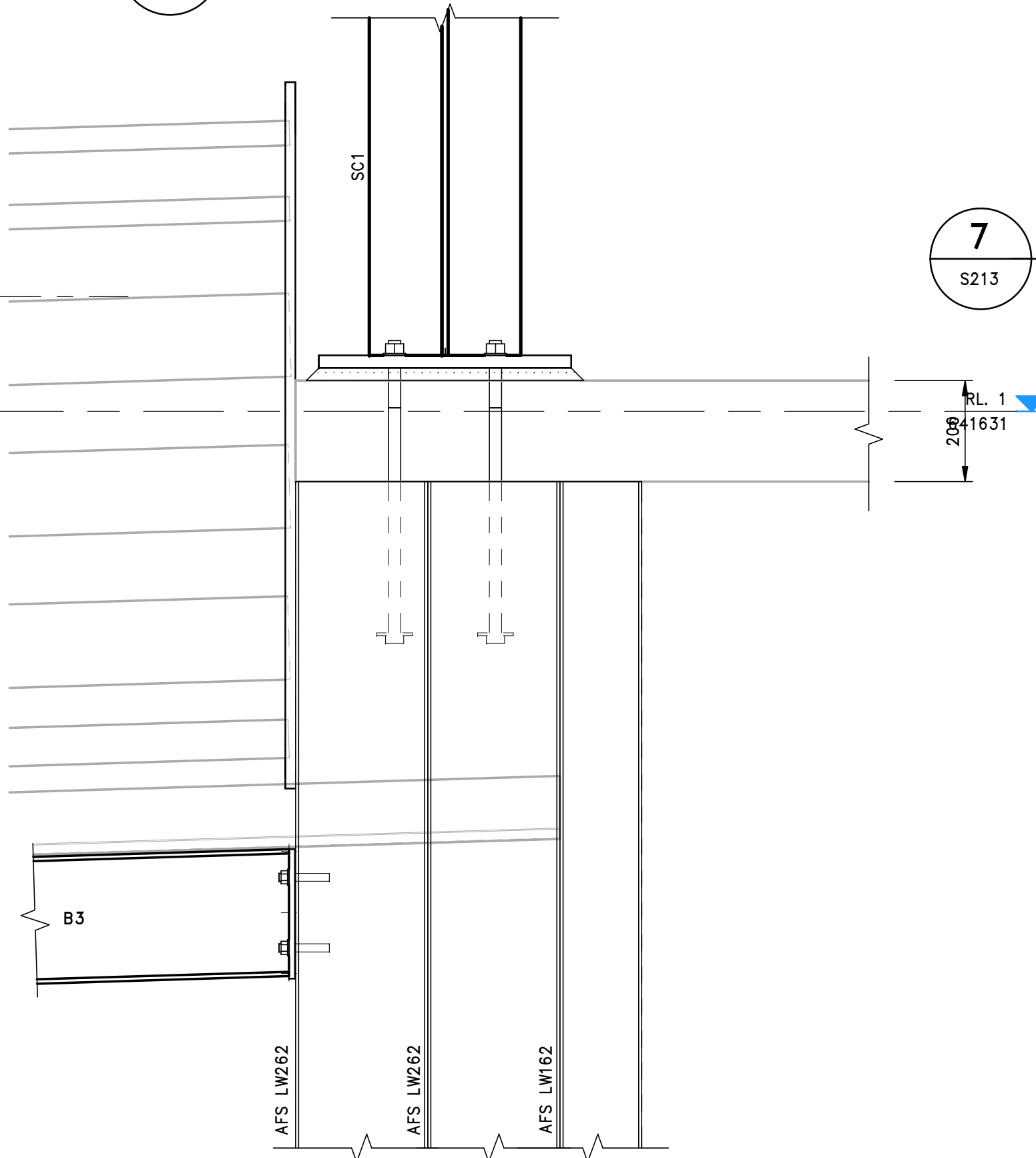
3 EA3 TO PRECAST WALL PLAN
S205 1 : 10



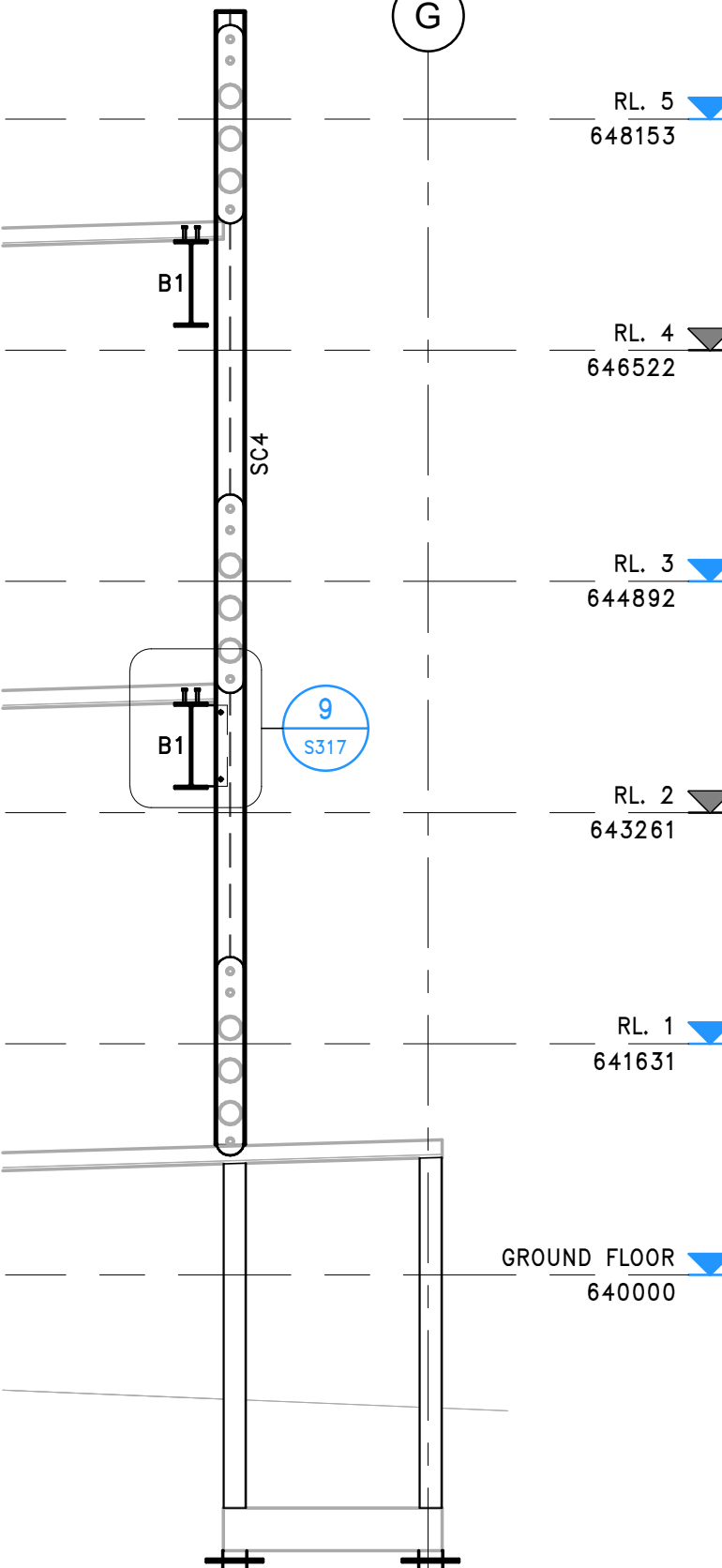
4 EA3 TO B3 SECTION
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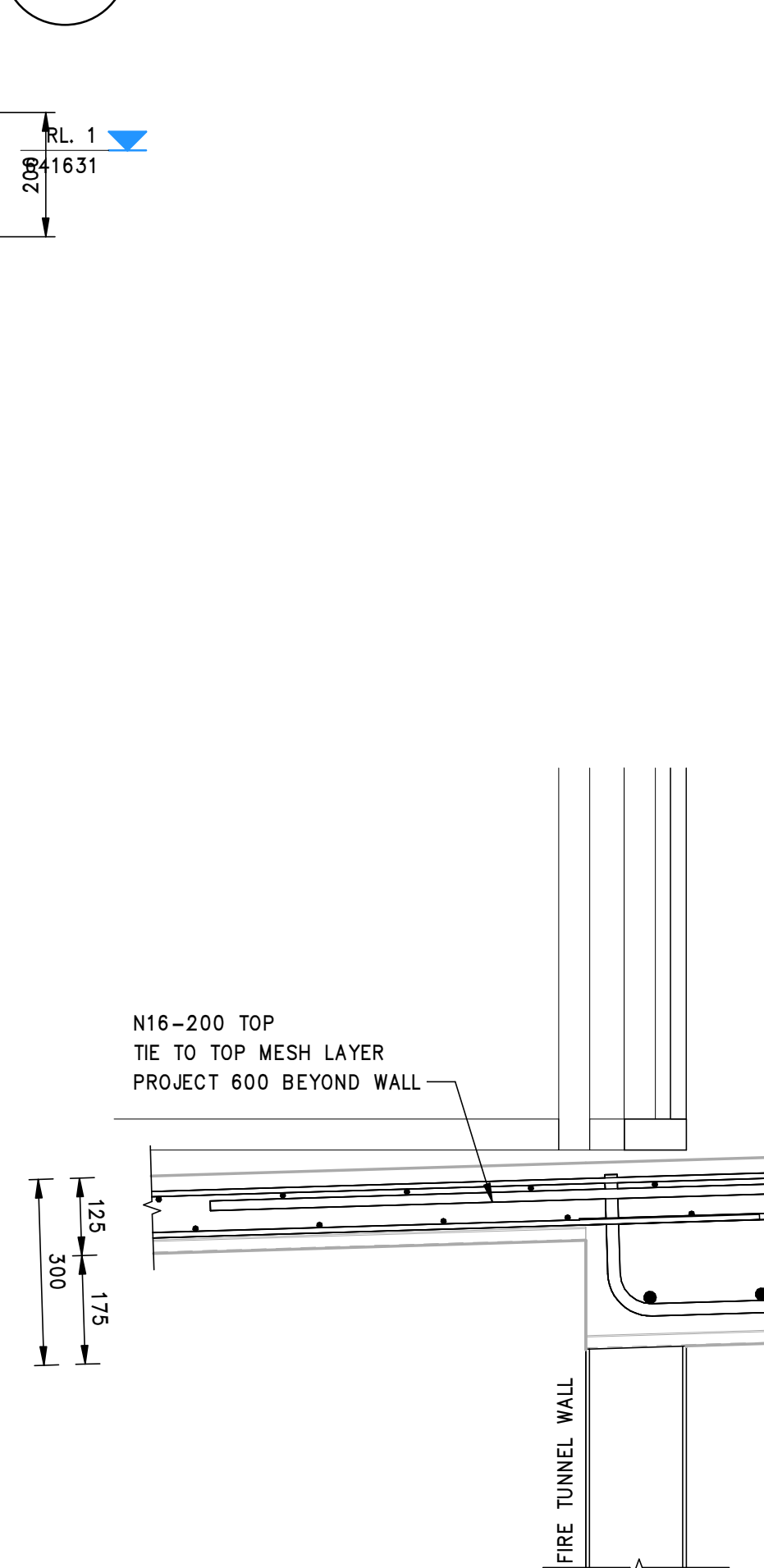
5 SC1 TO FIRE TUNNEL PLAN DETAIL
1 : 10



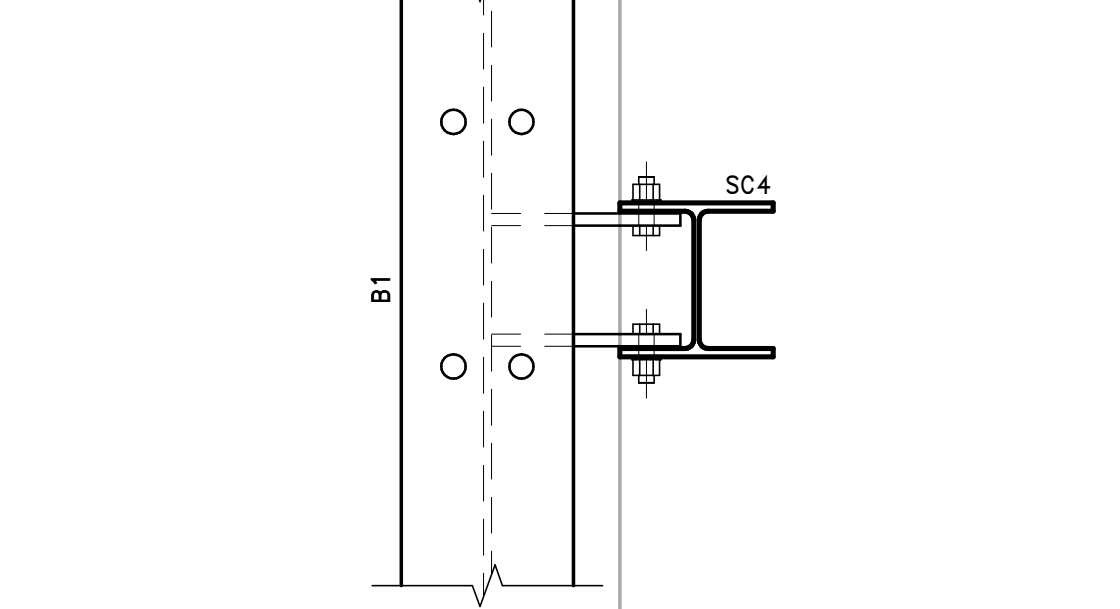
6 SC1 TO FIRE STAIR SECTION
S213 1 : 10



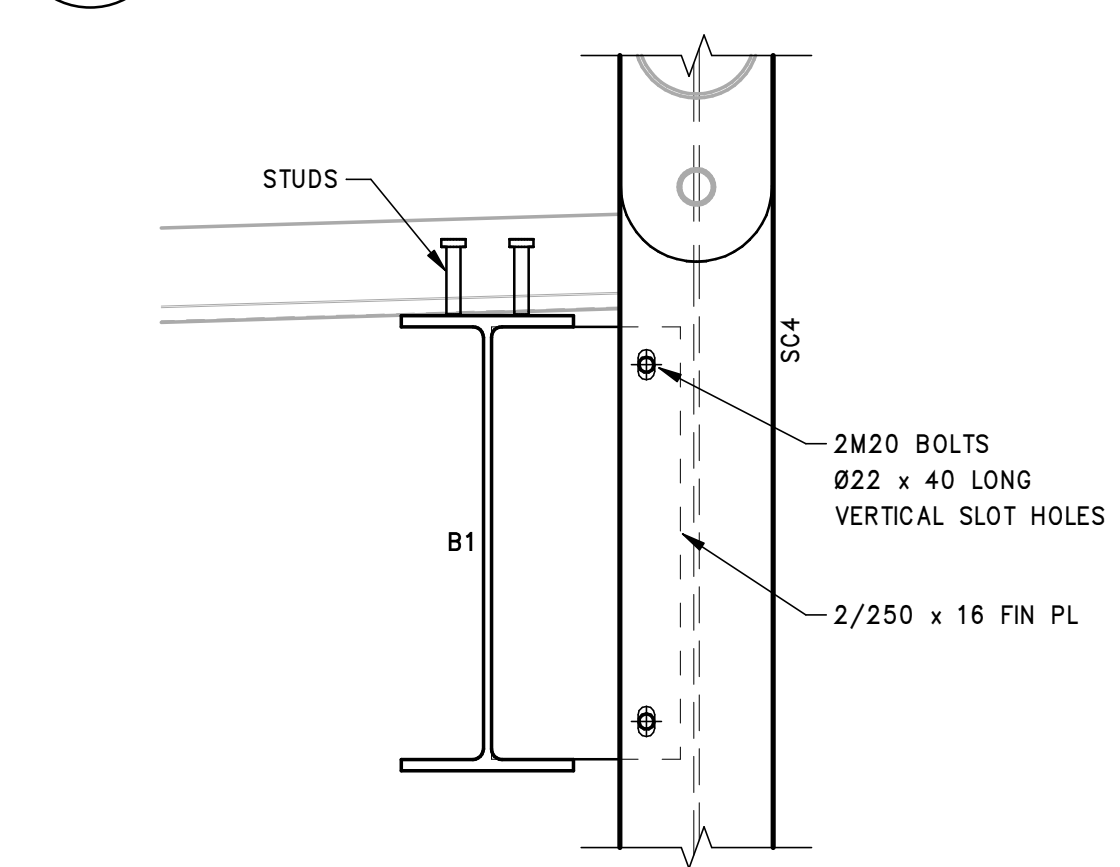
7 SC4 TO B1 (GRID G) SECTION
S213 1 : 50



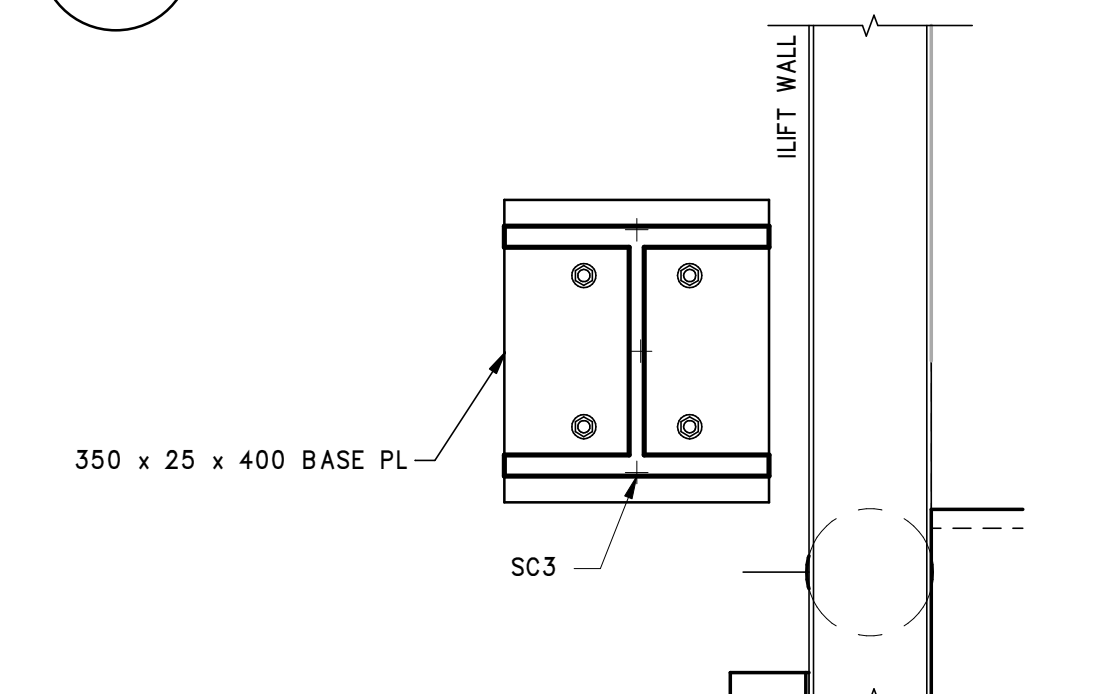
11 SC3 AT STAIR SECTION
S200 1 : 10



8 SC4 TO B1 (GRID G) PLAN DETAIL
S301 1 : 10



9 SC4 TO B1 (GRID G) SECTION DETAIL
S317 1 : 10



10 SC3 AT STAIR PLAN
1 : 10

A	12.02.25	CONSTRUCTION CERTIFICATE	PJB	GPB
REV.	DATE	REVISION	DR.BY	AP.BY

de Groot & Benson
Consulting Engineers & Planners

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236 Harbour Drive,
Coffs Harbour NSW
Phone (02) 6652 1700
Fax (02) 6652 7418
Email: email@dgb.com.au

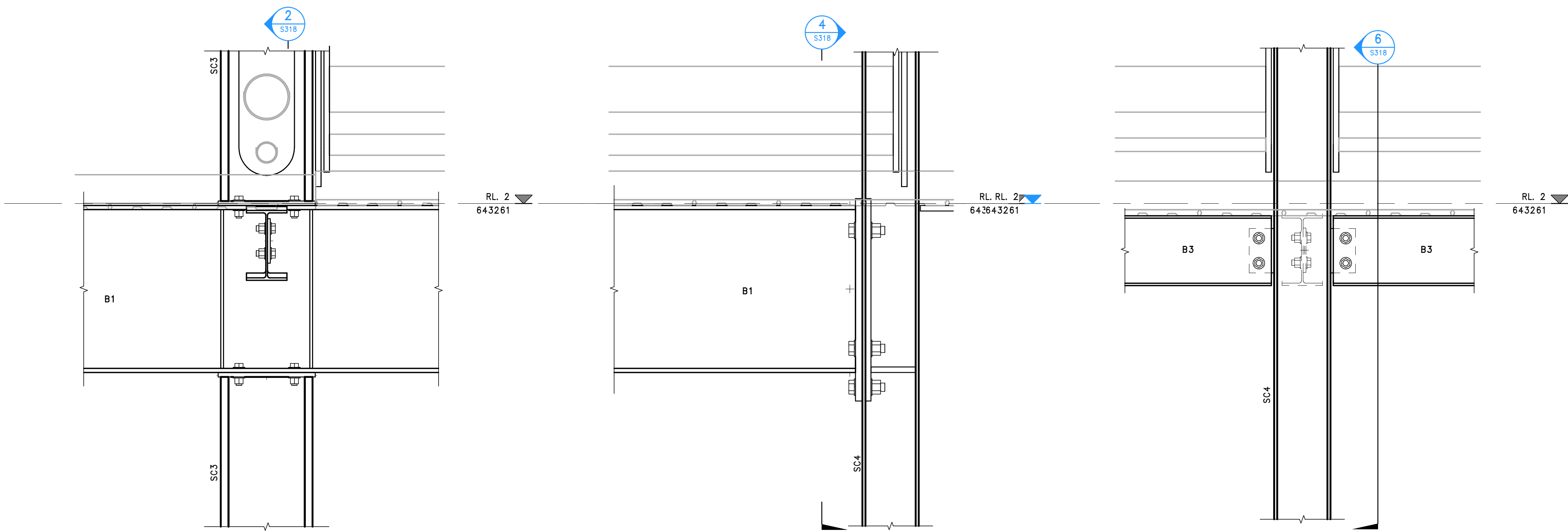
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Surveyed		Datum	
Drawn	Author	Designed	Designer
Checked	Checker	Date	Issue Date
		No. of dwgs	

Project:
WORKERS CLUB CARPARK
1 MCKELL PL
GOULBURN
Client:
GOULBURN WORKERS CLUB



Title:
STEEL DETAILS SHEET 03
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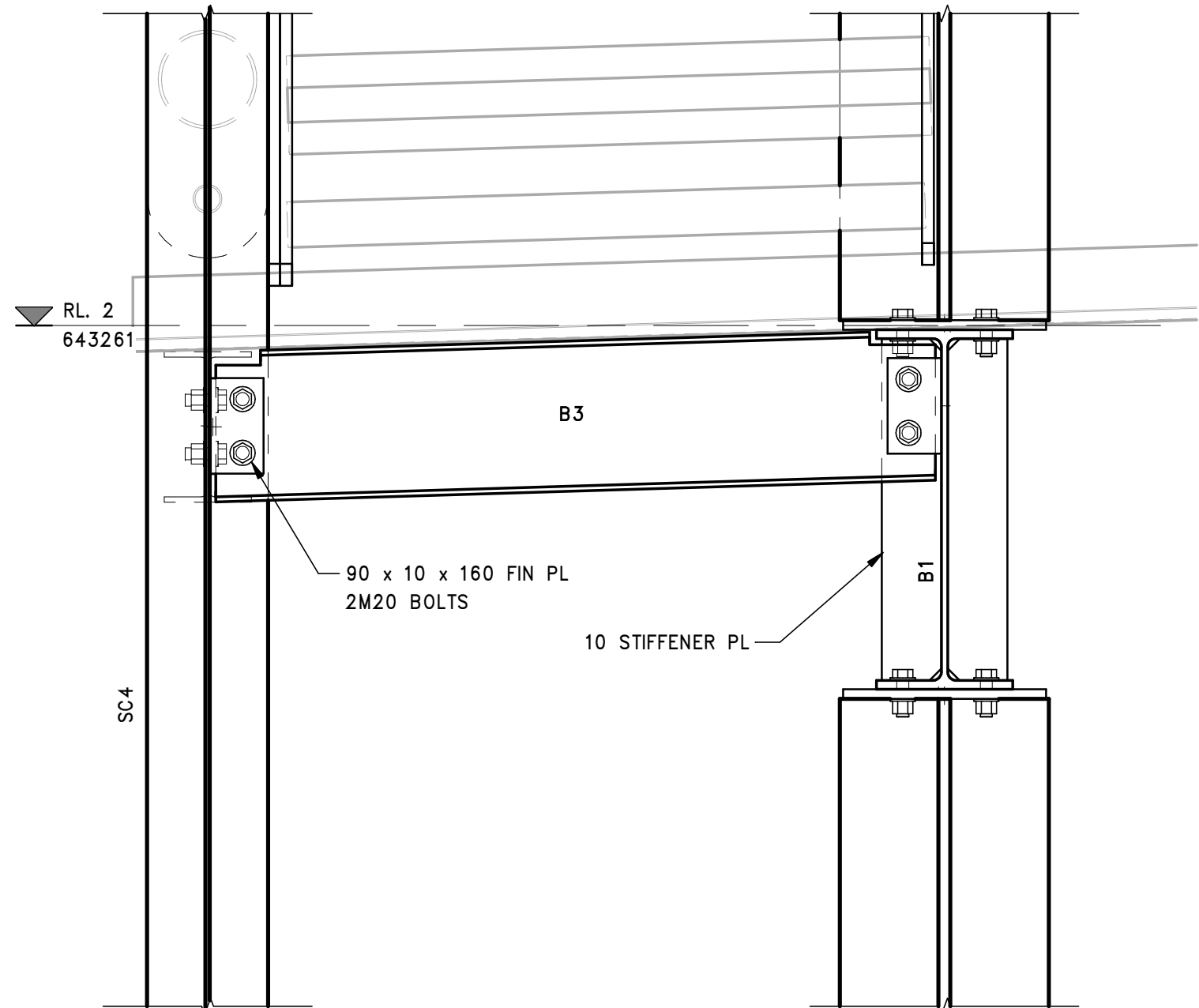
Project No.
16048
Drawing No.
S317
Amendment No.
A



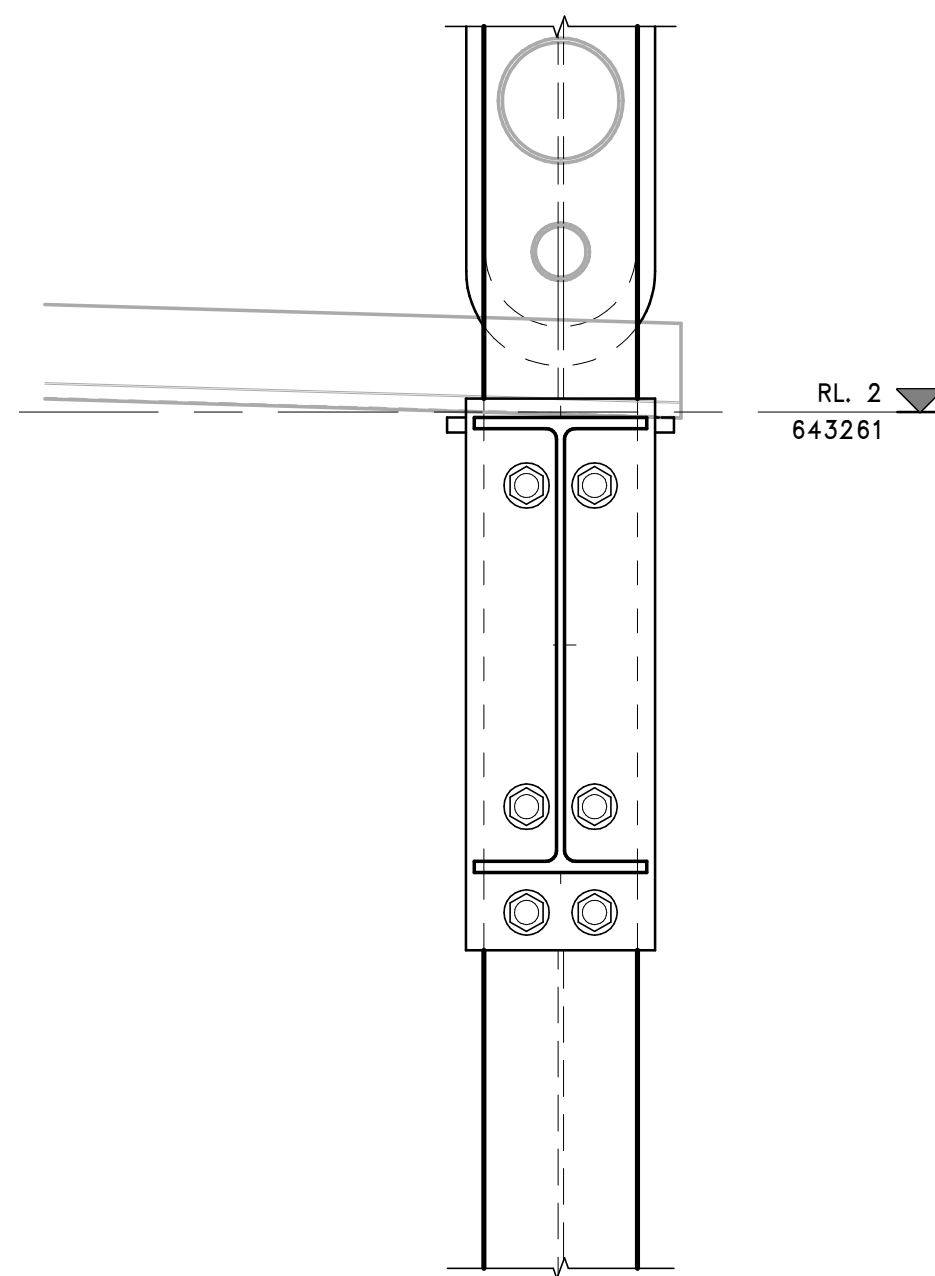
1 SC3 TO B1 ELEVATION
S306 1 : 10

3 B1 TO SC4 DETAIL
S306 1 : 10

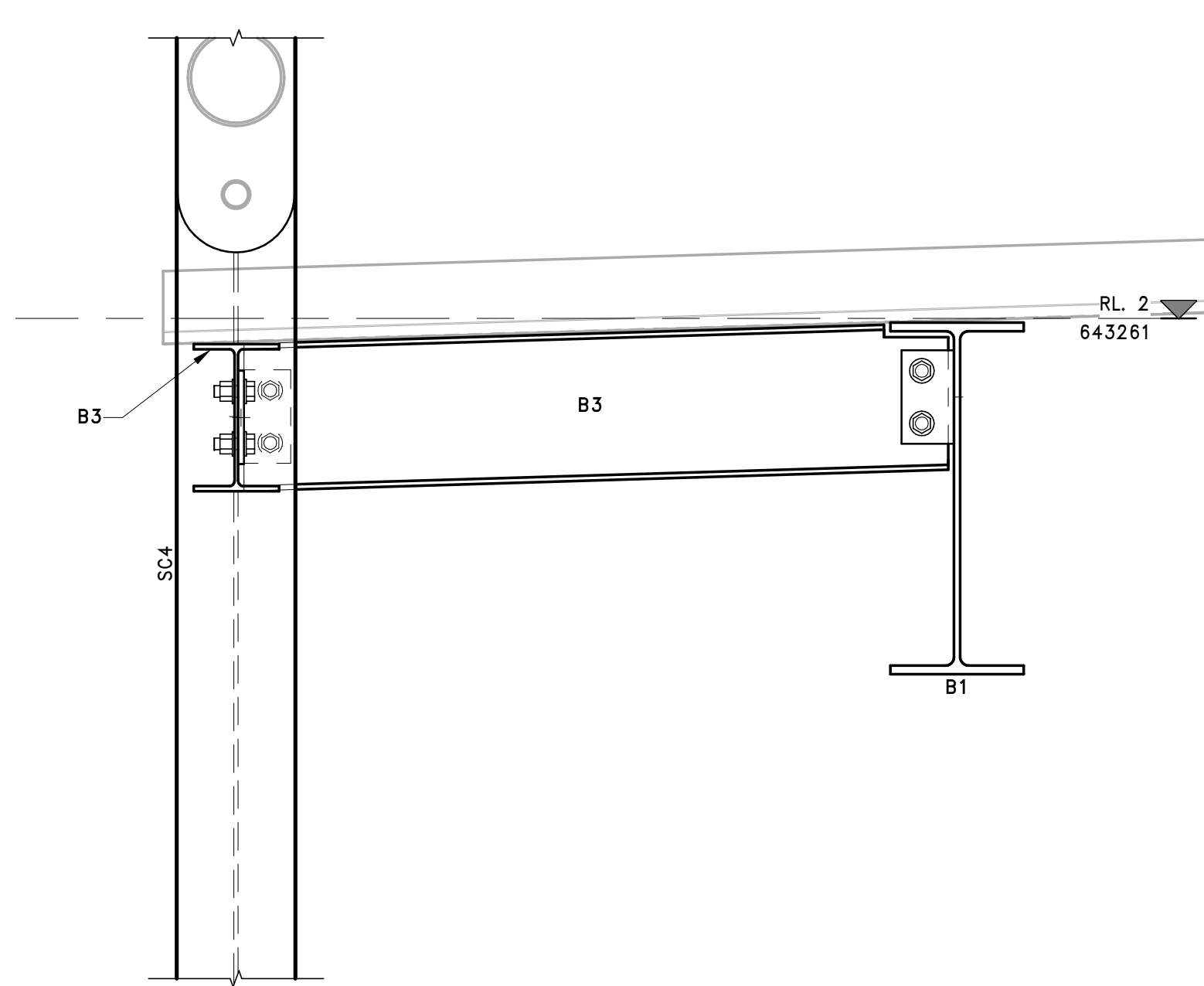
5 B3 TO SC4 ELEVATION
S306 1 : 10



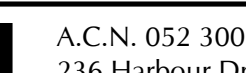
2 B3 TO SC4/B1 SECTION
S301 1 : 10

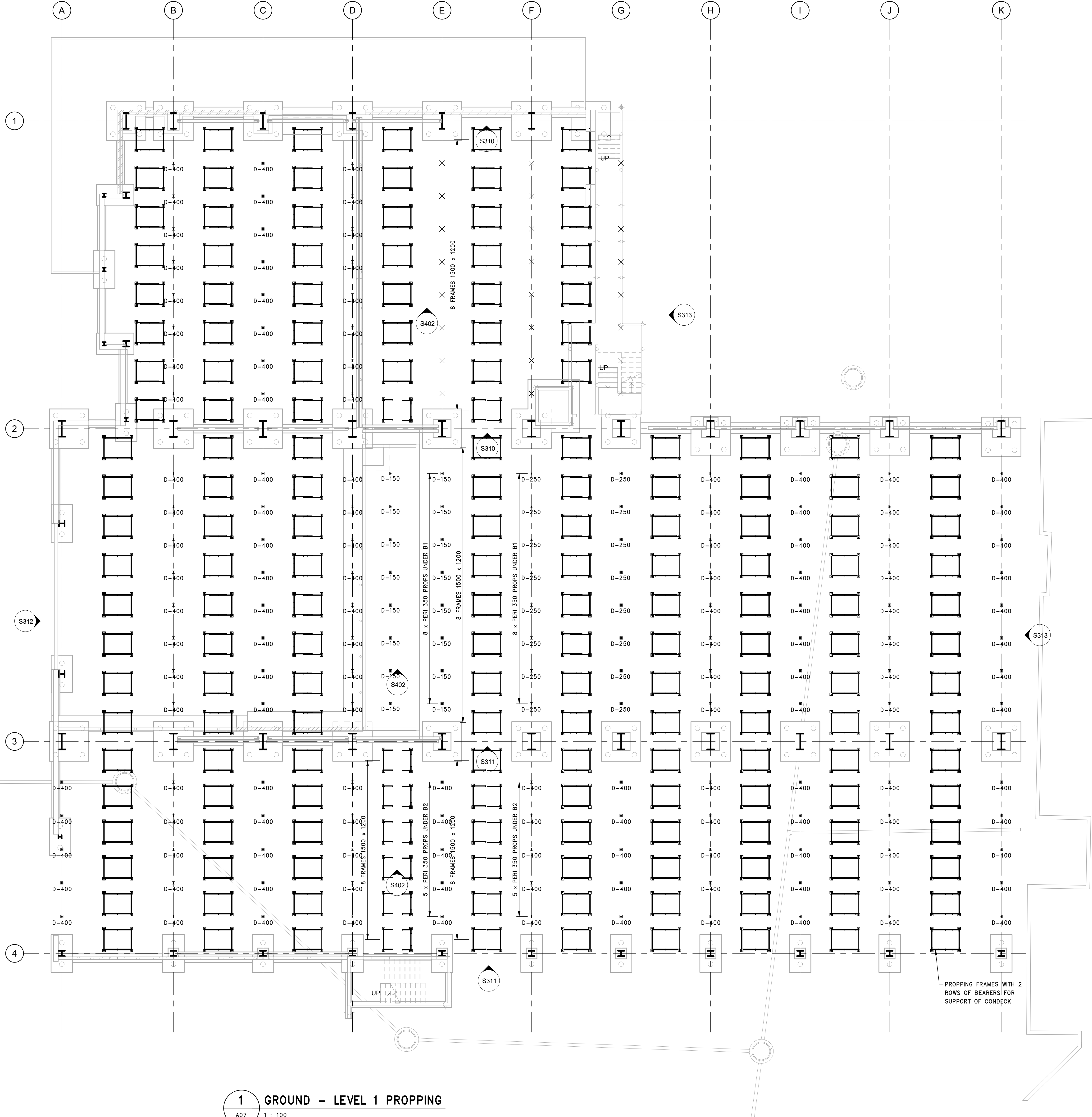


4 B1 TO SC4 SECTION
S318 1 : 10



6 B3 TO SC4 SECTION
S301 1 : 10

A REV.	12.02.25 DATE	CONSTRUCTION CERTIFICATE REVISION	PJB DR BY	GPB AP BY	de Groot & Benson Consulting Engineers & Planners	 Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgb.com.au	Scale 1 : 10		Project Status PRELIMINARY		Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN Client: GOULBURN WORKERS CLUB		Title: STEEL DETAILS SHEET 04	Project No. 16048		
							Surveyed		Datum					Drawing No. S318		
							Drawn	Author	Designed	Designer				Approved	Approver	Amendment No. A
							Checked	Checker	Date	Issue Date				No. of dwgs		



1 GROUND - LEVEL 1 PROPPING
A07 1 : 100

NOTE: OSD TANK IS TO CONTAIN PROPPING INSIDE THE TANK TO SUPPORT THE WEIGHT OF THE FLOORS ABOVE IF THE TANK ROOF SLAB IS POURED PRIOR TO SUSPENDED CARPARK FLOOR SLABS.

CONSTRUCTION SEQUENCE
IT IS INTENDED THAT THE CARPARK STRUCTURE BETWEEN GRIDS 2 AND 4 SHALL BE COMPLETED AND PLACED INTO SERVICE PRIOR TO COMMENCING CONSTRUCTION ON THE CARPARK STRUCTURE BETWEEN GRIDS 2 AND 1.

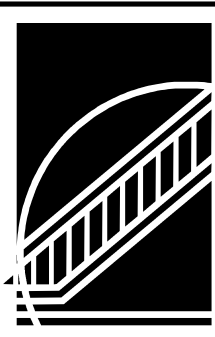
DESIGN ON PROPPING

- THE DESIGN INSTALLATION AND REMOVAL OF PROPPING IS THE RESPONSIBILITY OF A SPECIALIST CONTRACTOR EXPERIENCED IN FORMWORK, FALSEWORK AND PROPPING.
- PROPPING DESIGN TOP COMPLY WITH AS2327:2020 AND THE TABLE OF PROPPING DESIGN ON THESE DRAWINGS.
- THE DESIGN OF PROPPING FOR FUTURE VERTICAL EXPANSION OF THE CARPARK IS A MATTER FOR CONSIDERATION THAT FUTURE DESIGN.
- THE DESIGN SHOWN IN THESE DRAWINGS IS A CONCEPTUAL DESIGN INTENDED TO ILLUSTRATE REQUIREMENTS TO THE CONTRACTOR AND TO SPECIALIST CONTRACTORS. THE REQUIREMENT IS TO FULLY PROP CONDECK SLABS AND COMPOSITE BEAMS UNTIL CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS IS ACHIEVED.
- GIVEN THE REQUIREMENTS OF AS3610 TO SUPPORT A FLOOR OVER 3 CONSTRUCTED FLOORS, THE ONLY OPTION FOR THIS BUILDING IS TO FULLY PROP THE BUILDING UNTIL CONSTRUCTION IS COMPLETED.

STAGE	STAGE DESCRIPTION	CONSTRUCTION LOAD CONDECK	CONSTRUCTION LOAD STEEL BEAM	PROPPING REQUIREMENT
1	PERIOD BETWEEN STEEL ERECTED AND THE FORMWORK (CONDECK) IS FIXED TO THE BEAMS	(a) DEAD LOAD OF CONDECK SHEETING (b) LIVE LOAD (i) UNIFORMLY DISTRIBUTED LOAD OF 1.0 kN/m ² OR (ii) A CONCENTRATED LOAD OF 1.0 kN APPLIED IN THE EDGE PAN OR 2.0 kN ELSEWHERE, CONCENTRATED ON AN AREA OF 0.1m x 0.1m	(a) DEAD LOADS: WEIGHT OF THE STEEL BEAM PLUS ANY FORMWORK SUPPORTED BY THE BEAM (b) LIVE LOADS CONSISTING OF (i) A CONCENTRATED LOAD OF 10.0 kN APPLIED TO THE TOP FLANGE OF THE STEEL BEAM ANYWHERE WITHIN THE SPAN (ii) A UNIFORMLY DISTRIBUTED LOAD ACTING ON THE FORMWORK SUPPORTED BY THE BEAM TAKEN AS (A) 0.5kN/m ² IF THE TRIBUTARY AREA A IS LESS THAN OR EQUAL TO 23m ² (B) 0.3kN/m ² IF THE TRIBUTARY AREA A IS GREATER THAN OR EQUAL TO 46m ² OR (C) VARYING LINEARLY BETWEEN 0.5 kN/m ² AND 0.3 kN/m ² IS BETWEEN 23m ² AND 46m ²	INSTALL THE PROPPING SPECIFIED IN THE DRAWINGS SO THAT THE BEAMS AND CONDECK FORMWORK ARE PROPPED. DESIGN THE PROPPING TO SUPPORT THE CUMMULATIVE LOAD IMPOSED BY THE STRUCTURE SUPPORTED BY THE PROPPING. THE PROPPING AT THE BOTTOM OF THE BUILDING WILL SUPPORT THE LOAD FROM ALL THE STRUCTURE ABOVE. INSTALL THE PROPPING FOR THE LOWEST FLOOR PRIOR TO PLACING REBAR AND CONCRETE TO THAT FLOOR. THEN INSTALL PROPPING TO THE NEXT FLOOR ONTO THE CONCRETE MINIMUM 48 HOURS OLD AFTER SETTING OF CONCRETE. CONTINUE THIS PROCESS UP THE BUILDING. SUBMIT THE PROPPING DESIGN FOR REVIEW AND COMMENT PRIOR TO INSTALLATION OF PROPPING
2	FROM FIXING OF FORMWORK TO IMMEDIATELY PRIOR TO PLACING OF CONCRETE ONTO CONDECK	(a) DEAD LOAD OF STEEL SHEETING AND SLAB REINFORCEMENT PLACED ON THE SHEETING (b) LIVE LOAD- MAXIMUM EFFECT OF (i) UNIFORMLY DISTRIBUTED LOAD OF 5.0 kN/m ² INCL ALLOWS FOR STACKED MATERIALS OF 4.0kN/m ² (ii) A CONCENTRATED LOAD OF 1.0 kN APPLIED ON THE EDGE PAN OR 2.0 kN ELSEWHERE, CONCENTRATED ON AN AREA OF 0.1M X 0.1m	MINIMUM NOMINAL LOADS ASSUMED TO ACT EITHER DIRECTLY OR INDIRECTLY ON THE STEEL BEAM SHALL BE THE SAME AS FOR CONSTRUCTION STAGE 1	STEEL BEAM TO BE PROPPED AS DETAILED PRIOR TO PLACING CONDECK FRAMES AND BEARERS TO BE PLACED PRIOR TO PLACING CONDECK
3	DURING THE PLACING OF CONCRETE AND INITIAL SET OF THE CONCRETE	(a) DEAD LOADS AS PER STAGE 2 PLUS (i) THE WEIGHT OF THE FRESH CONCRETE and (ii) THE ADDITIONAL WEIGHT OF FRESH CONCRETE DUE TO PONDING ESTIMATED AT 2mm. NOTE: THE DENSITY OF NORMAL WEIGHT CONCRETE IS ASSUMED AT 2400 kg/m ³ (b) LIVE LOADS CONSISTING OF THE MAXIMUM EFFECT OF THE FOLLOWING: (i) A uniformly distributed load of 1.0 kN/m ² (ii) A LOAD OF 2.0kN/m ² DISTRIBUTED OVER AN AREA OF 1.6m x 1.6m ANYWHERE WITHIN THE SPAN, FOR LOCALIZED MOUNDING DURING THE CONCRETE PLACEMENT	DEAD LOADS AS FOR STAGE 2 PLUS (i) THE WEIGHT OF FRESH CONCRETE ON THE TRIBUTARY AREA AND (ii) THE ADDITIONAL WEIGHT OF FRESH CONCRETE DUE TO PONDING ESTIMATED AT 2mm	THE PROPPING INSTALLED UNDER CONDECK AND UNDER STEEL BEAMS IS TO REMAIN UNDISTURBED
4	BETWEEN INITIAL SET OF CONCRETE AND WHEN THE COMPRESSIVE STRENGTH IS AT LEAST 15 MPa (Minimum of 7 days)	DO NOT LOAD THE SLABS UNTIL THE CONCRETE IS A MINIMUM OF 48 HOURS OLD AFTER SETTING. THE LIVE LOAD IS THE LOAD IMPOSED BY THE PLACING OF FORMWORK FRAMES WITH BEARERS UNDER THE NEXT FLOOR LEVEL	THE LIVE LOAD IS THE LOAD IMPOSED BY THE PLACING OF PROPS UNDER THE NEXT FLOOR LEVEL. PROPS UNDER STEEL BEAMS TO BE WOUND UP TO REMOVE STEEL BEAM SELF WEIGHT DEFLECTION	DO NOT DISTURB ANY FALSEWORK OR PROPS SUPPORTING THE SLAB OR THE STEEL BEAM
5	THE PERIOD BETWEEN WHEN THE CONCRETE STRENGTH ACHIEVES 15 MPa AND ACHIEVING DESIGN COMPRESSIVE STRENGTH OF 32 MPa	THE STRUCTURE REMAINS PROPPED AND UNDISTURBED. THE CONDECK IS ACTING AS A COMPOSITE SLAB SPANNING BETWEEN PROPPING BEARERS. NO LOADS ARE APPLIED DIRECTLY JUST TO CONDECK UNIFORMLY DISTRIBUTED LOAD OF 4.0 kN/m ² OVER A 2.5M X 2.5M AREA	THE BEAMS REMAIN PROPPED ESPECIALLY IF FORKLIFTS ARE USED TO DISTRIBUTE FRAMES ACROSS THE SLAB JUST POURED IN ORDER TO SUPPORT THE NEXT FLOOR SLAB UNIFORMLY DISTRIBUTED LOAD OF 4.0 kN/m ² OVER A 2.5M X 2.5M AREA	DO NOT DISTURB ANY FALSEWORK OR PROPS SUPPORTING THE SLAB OR THE STEEL BEAM
6	BETWEEN STAGE 5 AND PLACING THE COMPLETED STRUCTURE INTO SERVICE	IF PROPOSING TO USE FORKLIFT TO REMOVE PROPPING FRAMES, THE FORKLIFT MAY ONLY OPERATE ON THE LEVEL WHERE THE FRAMES AND PROPS REMAIN UNDISTURBED IN ALL FLOORS BELOW THE FORKLIFT. DO NOT LOAD THE FORKLIFT ONTO AN UNSUPPORTED SLAB	ONCE PROPPING HAS BEEN REMOVED FROM SUPPORTING A SLAB, THE LIVE LOAD ON THE SLAB IS NOT TO EXCEED 2.5 kN/m ² OR A CONCENTRATED LOAD OF 13 kN	PROPPING TO BE REMOVED COMMENCING REMOVAL AT THE UPPERMOST LEVEL AND WORKING PROGRESSIVELY DOWN THE STRUCTURE

A	12.02.25	CONSTRUCTION CERTIFICATE COORDINATION PRELIMINARY PRELIM	PJB	GPB
P3	22.11.23		PJB	GPB
P2	30.10.23		PJB	GPB
P1	22.09.23		PJB	GPB
REV.	DATE	REVISION	DR.BY	AP.BY

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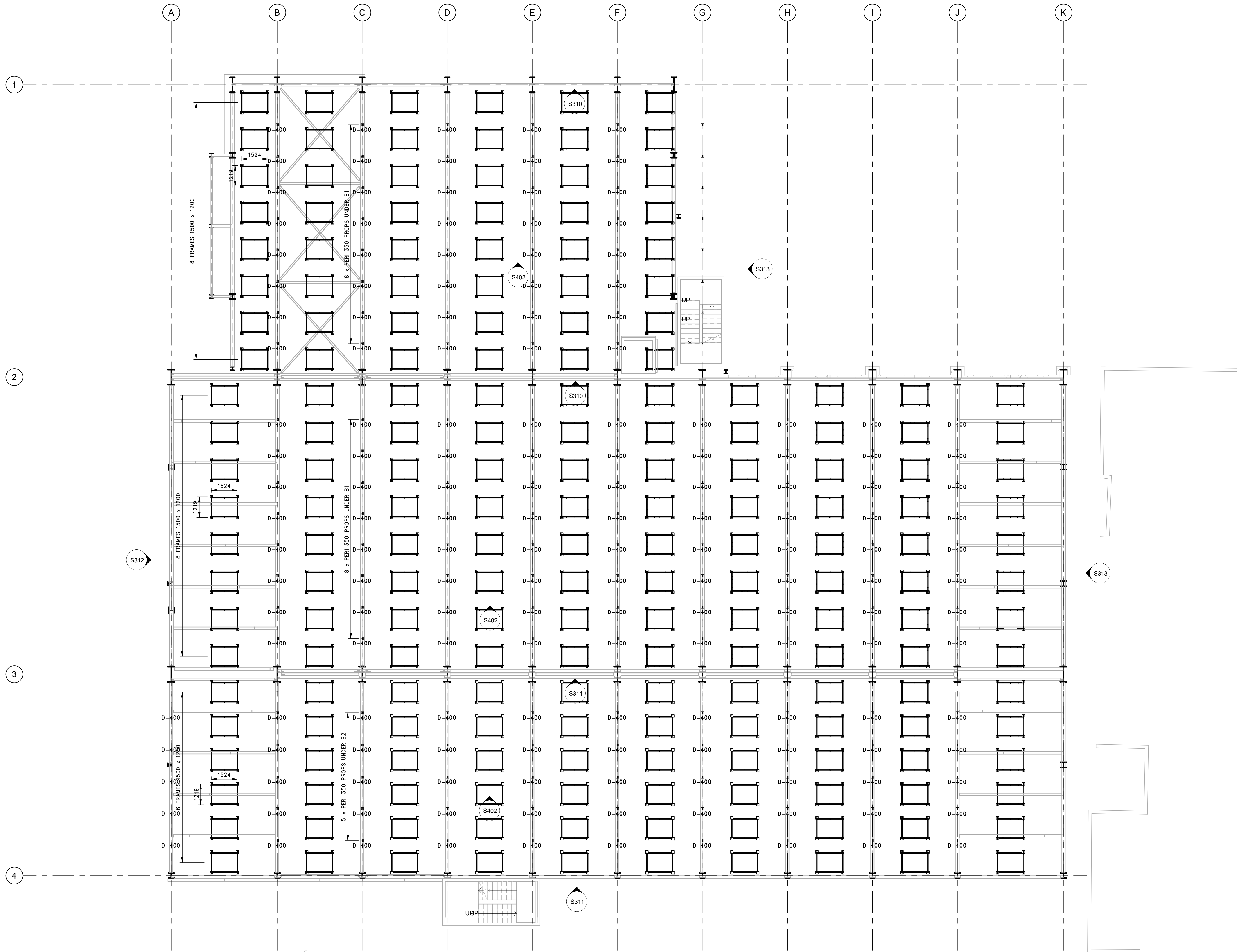
Scale	As indicated	Project Status	PRELIMINARY
Surveyed		Datum	
Drawn	PJB	Designed	GPB
Checked	GPB	Approved	GPB
		No. of dwgs	

Project:
WORKERS CLUB CARPARK - 1 McKELL PL GOULBURN
Client:
GOULBURN WORKERS CLUB



Title:
PROPPING PLAN - GROUND - LEVEL 1
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Project No. **16048**
Drawing No. **S400**
Amendment No.



1 LEVEL 1 - 3 PROPPING PLAN
A07 1 : 100

						de Groot & Benson				A.C.N. 052 300 571 236 Harbour Drive, Coffs Harbour NSW		Project: WORKERS CLUB CARPARK 1 McKELL PL GOULBURN				Title: PROPPING PLAN - LEVEL 1-3		Project No. 16048				
A	12.02.25	CONSTRUCTION CERTIFICATE		PJB	GPB	Consulting Engineers & Planners				Phone (02) 6652 1700 Fax (02) 6652 7418 Email: email@dgbc.com.au		Scale 1 : 100		Project Status PRELIMINARY								
P3	22.11.23	COORDINATION		PJB	GPB							Surveyed		Datum								
P2	30.10.23	PRELIMINARY		PJB	GPB							Drawn		PJB	Designed					GPB	Approved	GPB
P1	22.09.23	PRELIM		PJB	GPB							Checked		GPB	Date					Issue Date	No. of dwgs	
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