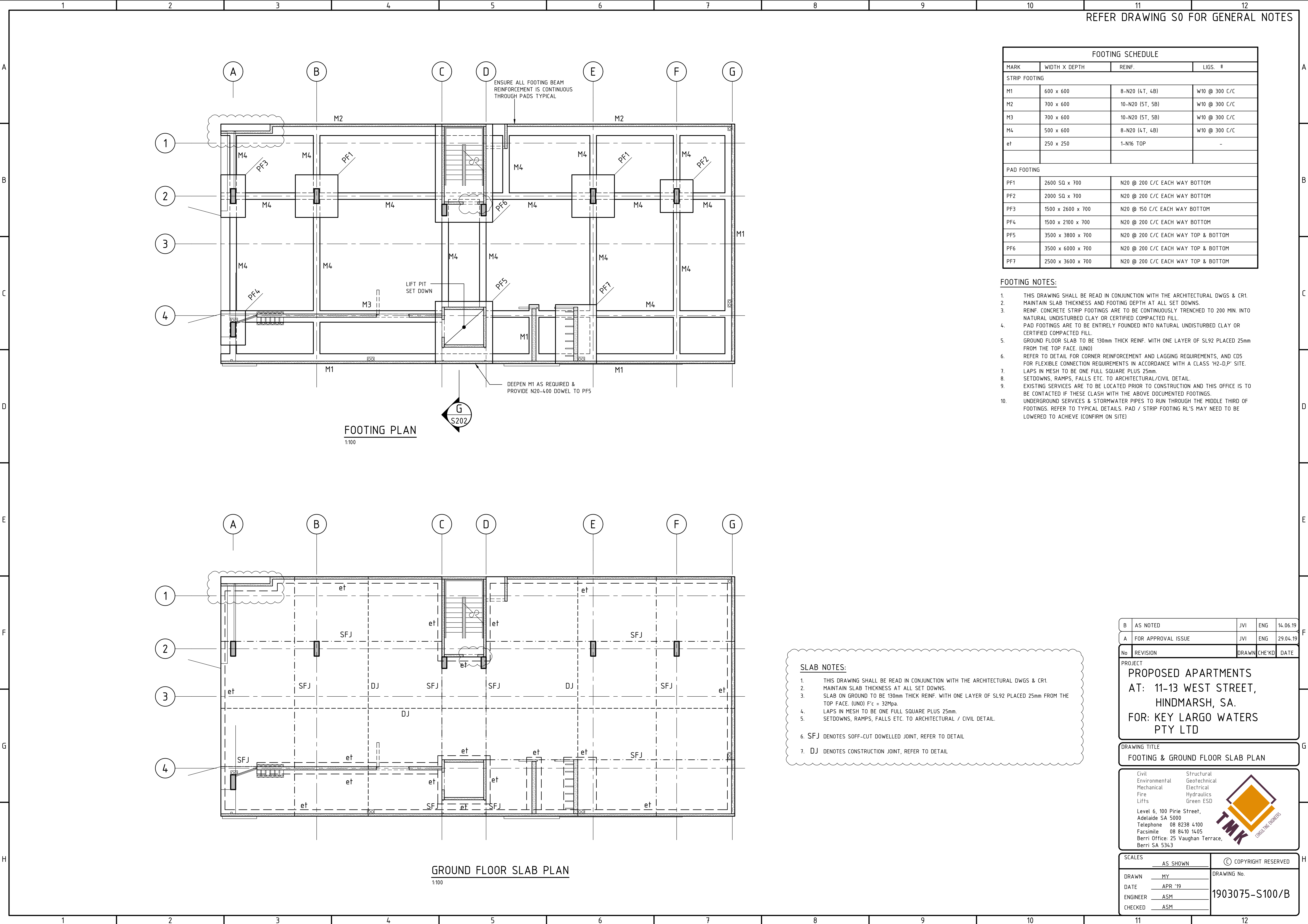


[illegible]





REFER DRAWING S0 FOR GENERAL NOTES

FOOTING SCHEDULE			
MARK	WIDTH X DEPTH	REINF.	LIGS. #
STRIP FOOTING			
M1	600 x 600	8-N20 (4T, 4B)	W10 @ 300 C/C
M2	700 x 600	10-N20 (5T, 5B)	W10 @ 300 C/C
M3	700 x 600	10-N20 (5T, 5B)	W10 @ 300 C/C
M4	500 x 600	8-N20 (4T, 4B)	W10 @ 300 C/C
et	250 x 250	1-N16 TOP	-
PAD FOOTING			
PF1	2600 SQ x 700	N20 @ 200 C/C EACH WAY BOTTOM	
PF2	2000 SQ x 700	N20 @ 200 C/C EACH WAY BOTTOM	
PF3	1500 x 2600 x 700	N20 @ 150 C/C EACH WAY BOTTOM	
PF4	1500 x 2100 x 700	N20 @ 200 C/C EACH WAY BOTTOM	
PF5	3500 x 3800 x 700	N20 @ 200 C/C EACH WAY TOP & BOTTOM	
PF6	3500 x 6000 x 700	N20 @ 200 C/C EACH WAY TOP & BOTTOM	
PF7	2500 x 3600 x 700	N20 @ 200 C/C EACH WAY TOP & BOTTOM	

- FOOTING NOTES:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWGS & CR1.
  - MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SET DOWNS.
  - REINF. CONCRETE STRIP FOOTINGS ARE TO BE CONTINUOUSLY TRENCHED TO 200 MIN. INTO NATURAL UNDISTURBED CLAY OR CERTIFIED COMPACTED FILL.
  - PAD FOOTINGS ARE TO BE ENTIRELY FOUNDED INTO NATURAL UNDISTURBED CLAY OR CERTIFIED COMPACTED FILL.
  - GROUND FLOOR SLAB TO BE 130mm THICK REINF. WITH ONE LAYER OF SL92 PLACED 25mm FROM THE TOP FACE. (UNO)
  - REFER TO DETAIL FOR CORNER REINFORCEMENT AND LAGGING REQUIREMENTS, AND CDS FOR FLEXIBLE CONNECTION REQUIREMENTS IN ACCORDANCE WITH A CLASS 'H2-D,P' SITE.
  - LAPS IN MESH TO BE ONE FULL SQUARE PLUS 25mm.
  - SETDOWNS, RAMPS, FALLS ETC. TO ARCHITECTURAL/CIVIL DETAIL.
  - EXISTING SERVICES ARE TO BE LOCATED PRIOR TO CONSTRUCTION AND THIS OFFICE IS TO BE CONTACTED IF THESE CLASH WITH THE ABOVE DOCUMENTED FOOTINGS.
  - UNDERGROUND SERVICES & STORMWATER PIPES TO RUN THROUGH THE MIDDLE THIRD OF FOOTINGS. REFER TO TYPICAL DETAILS. PAD / STRIP FOOTING RL'S MAY NEED TO BE LOWERED TO ACHIEVE (CONFIRM ON SITE)

- SLAB NOTES:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DWGS & CR1.
  - MAINTAIN SLAB THICKNESS AT ALL SET DOWNS.
  - SLAB ON GROUND TO BE 130mm THICK REINF. WITH ONE LAYER OF SL92 PLACED 25mm FROM THE TOP FACE. (UNO) F'c = 32Mpa.
  - LAPS IN MESH TO BE ONE FULL SQUARE PLUS 25mm.
  - SETDOWNS, RAMPS, FALLS ETC. TO ARCHITECTURAL / CIVIL DETAIL.
  - SFJ DENOTES SOFF-CUT DOWELLED JOINT, REFER TO DETAIL
  - DJ DENOTES CONSTRUCTION JOINT, REFER TO DETAIL

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT

**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE

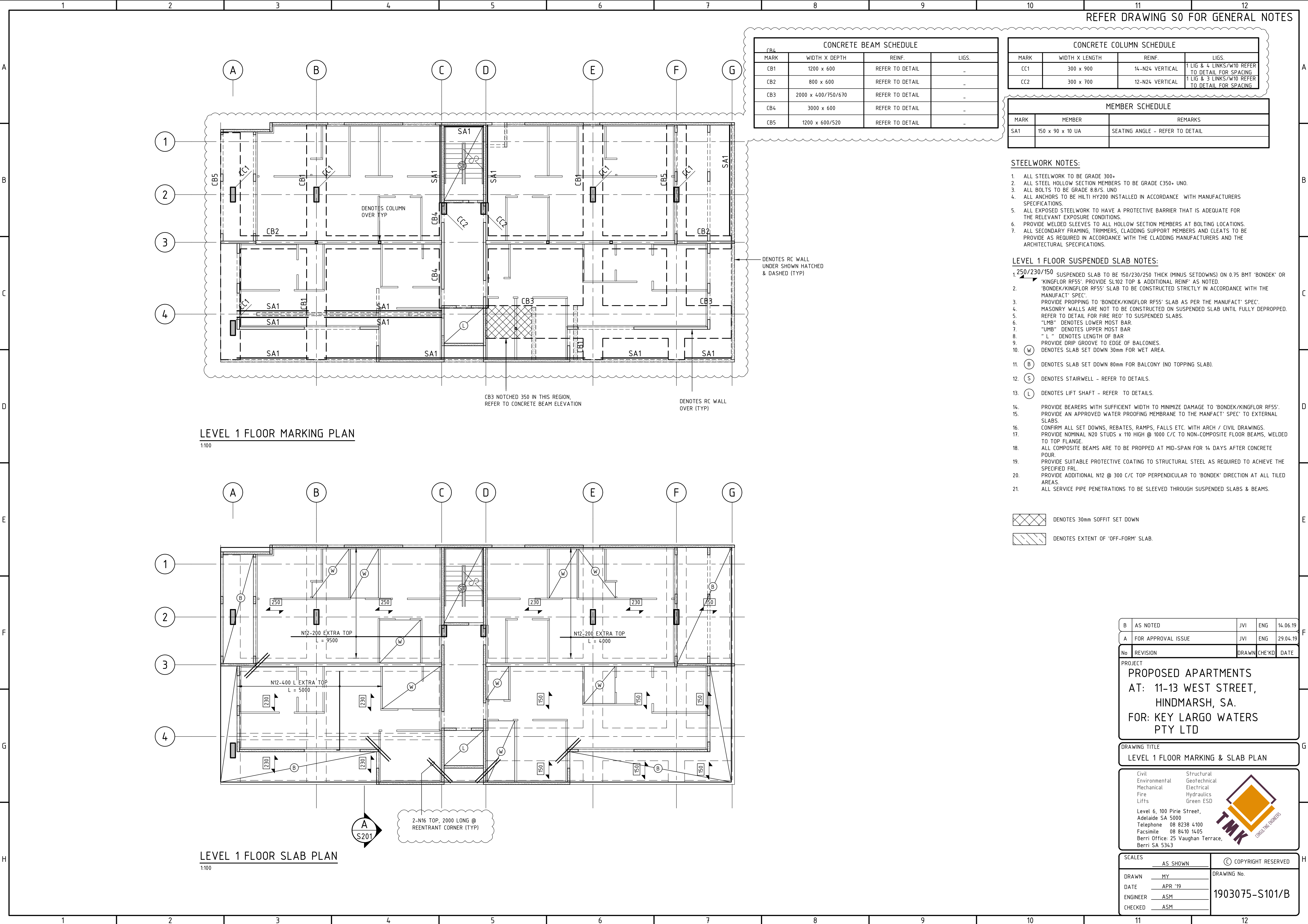
**FOOTING & GROUND FLOOR SLAB PLAN**

Civil Environmental Mechanical Fire Lifts	Structural Geotechnical Electrical Hydraulics Green ESD
---	---

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

**TMK**  
CONCRETE DESIGN

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DATE	APR '19	<b>1903075-S100/B</b>
ENGINEER	ASM	
CHECKED	ASM	



REFER DRAWING S0 FOR GENERAL NOTES

CONCRETE BEAM SCHEDULE			
CB#	WIDTH X DEPTH	REINF.	LIGS.
CB1	1200 x 600	REFER TO DETAIL	-
CB2	800 x 600	REFER TO DETAIL	-
CB3	2000 x 400/750/670	REFER TO DETAIL	-
CB4	3000 x 600	REFER TO DETAIL	-
CB5	1200 x 600/520	REFER TO DETAIL	-

CONCRETE COLUMN SCHEDULE			
MARK	WIDTH X LENGTH	REINF.	LIGS.
CC1	300 x 900	14-N24 VERTICAL	1 LIG & 4 LINKS/W10 REFER TO DETAIL FOR SPACING
CC2	300 x 700	12-N24 VERTICAL	1 LIG & 3 LINKS/W10 REFER TO DETAIL FOR SPACING

MEMBER SCHEDULE		
MARK	MEMBER	REMARKS
SA1	150 x 90 x 10 UA	SEATING ANGLE - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+.
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C350+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.

LEVEL 1 FLOOR SUSPENDED SLAB NOTES:

- 250/230/150 SUSPENDED SLAB TO BE 150/230/250 THICK (MINUS SETDOWNS) ON 0.75 BMT 'BONDEK' OR 'KINGFLOR RF55'. PROVIDE SL102 TOP & ADDITIONAL REINF AS NOTED.
- 'BONDEK/KINGFLOR RF55' SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'.
- PROVIDE PROPPING TO 'BONDEK/KINGFLOR RF55' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE REQ TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- (W) DENOTES SLAB SET DOWN 30mm FOR WET AREA.
- (B) DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
- (S) DENOTES STAIRWELL - REFER TO DETAILS.
- (L) DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO 'BONDEK/KINGFLOR RF55'.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS x 110 HIGH @ 1000 C/C TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
- ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR TO 'BONDEK' DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

XXXXX DENOTES 30mm SOFFIT SET DOWN  
XXXXX DENOTES EXTENT OF 'OFF-FORM' SLAB.

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

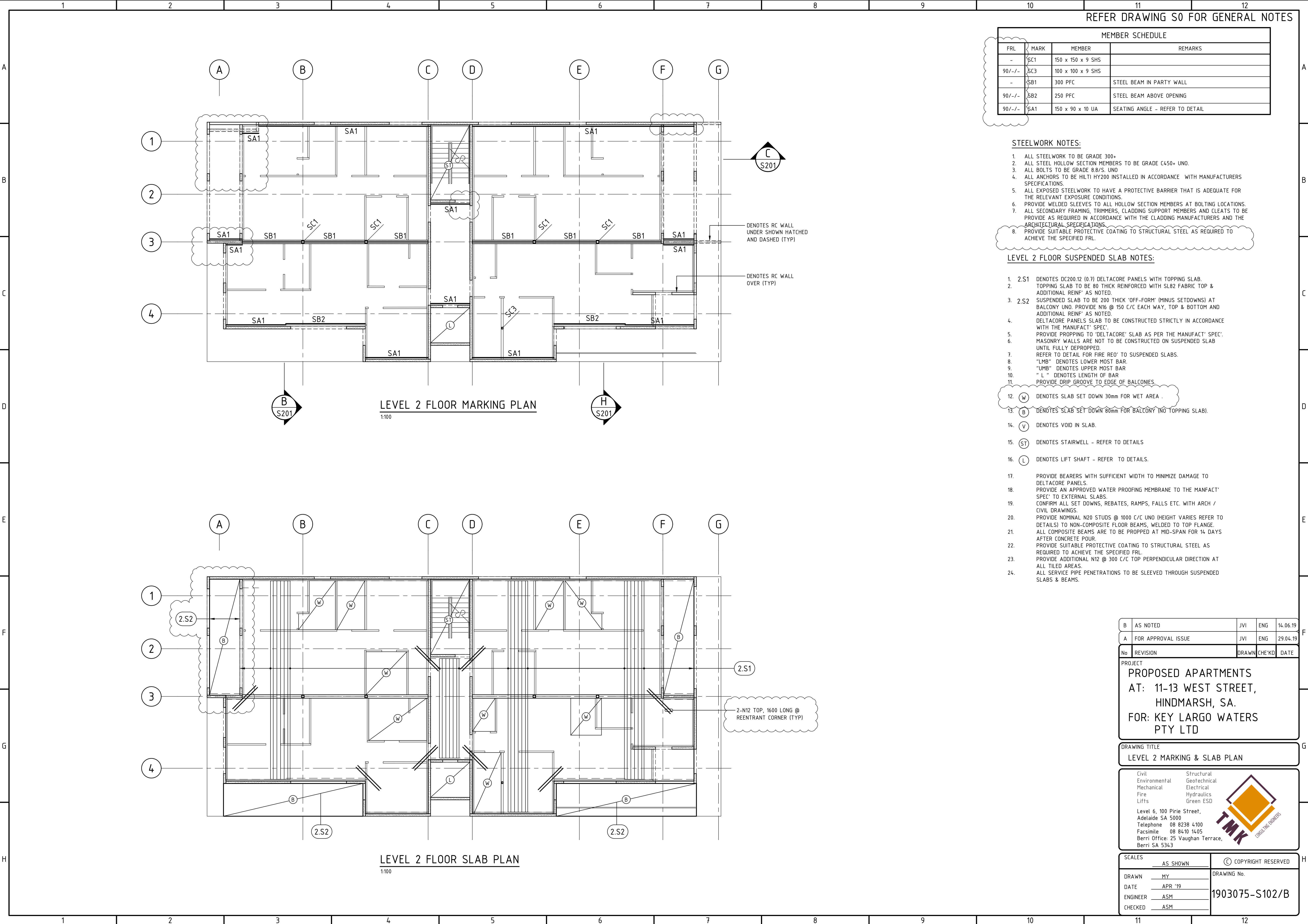
DRAWING TITLE  
**LEVEL 1 FLOOR MARKING & SLAB PLAN**

Civil  
Environmental  
Mechanical  
Fire  
Lifts  
Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD  
Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343



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DATE	APR '19	
ENGINEER	ASM	
CHECKED	ASM	





REFER DRAWING S0 FOR GENERAL NOTES

MEMBER SCHEDULE			
FRL	MARK	MEMBER	REMARKS
-	SC1	150 x 150 x 9 SHS	
90/-/-	SC3	100 x 100 x 9 SHS	
-	SB1	300 PFC	STEEL BEAM IN PARTY WALL
90/-/-	SB2	250 PFC	STEEL BEAM ABOVE OPENING
90/-/-	SA1	150 x 90 x 10 UA	SEATING ANGLE - REFER TO DETAIL

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.

LEVEL 2 FLOOR SUSPENDED SLAB NOTES:

- 2.S1 DENOTES DC200.12 (0.7) DELTACORE PANELS WITH TOPPING SLAB. TOPPING SLAB TO BE 80 THICK REINFORCED WITH SL82 FABRIC TOP & ADDITIONAL REINF' AS NOTED.
- 2.S2 SUSPENDED SLAB TO BE 200 THICK 'OFF-FORM' (MINUS SETDOWNS) AT BALCONY UNO. PROVIDE N16 @ 150 C/C EACH WAY, TOP & BOTTOM AND ADDITIONAL REINF' AS NOTED.
- DELTACORE PANELS SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'.
- PROVIDE PROPPING TO 'DELTACORE' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE REQ' TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- (W) DENOTES SLAB SET DOWN 30mm FOR WET AREA.
- (B) DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
- (V) DENOTES VOID IN SLAB.
- (ST) DENOTES STAIRWELL - REFER TO DETAILS.
- (L) DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO DELTACORE PANELS.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS @ 1000 C/C UNO (HEIGHT VARIES REFER TO DETAILS) TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE. ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

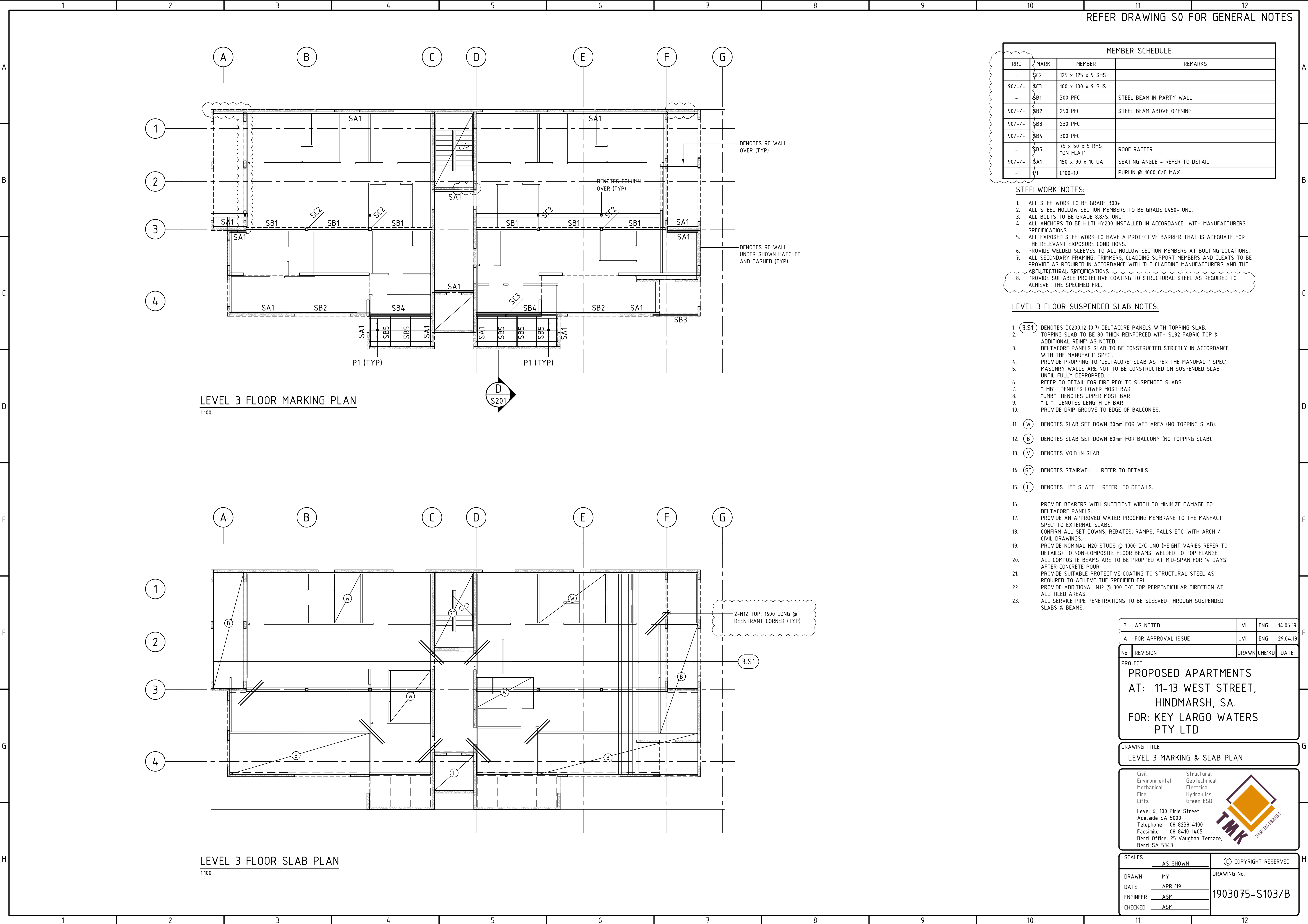
DRAWING TITLE  
**LEVEL 2 MARKING & SLAB PLAN**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

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DATE	APR '19	
ENGINEER	ASM	
CHECKED	ASM	



REFER DRAWING S0 FOR GENERAL NOTES

MEMBER SCHEDULE			
RRL	MARK	MEMBER	REMARKS
-	\$C2	125 x 125 x 9 SHS	
90/-/-	\$C3	100 x 100 x 9 SHS	
-	\$B1	300 PFC	STEEL BEAM IN PARTY WALL
90/-/-	\$B2	250 PFC	STEEL BEAM ABOVE OPENING
90/-/-	\$B3	230 PFC	
90/-/-	\$B4	300 PFC	
-	\$B5	75 x 50 x 5 RHS "ON FLAT"	ROOF RAFTER
90/-/-	\$A1	150 x 90 x 10 UA	SEATING ANGLE - REFER TO DETAIL
-	P1	C100-19	PURLIN @ 1000 C/C MAX

STEELWORK NOTES:

- ALL STEELWORK TO BE GRADE 300+.
- ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
- ALL BOLTS TO BE GRADE 8.8/S. UNO
- ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
- PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
- ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.

LEVEL 3 FLOOR SUSPENDED SLAB NOTES:

- (3.S1) DENOTES DC200.12 (0.7) DELTACORE PANELS WITH TOPPING SLAB.
- TOPPING SLAB TO BE 80 THICK REINFORCED WITH SLB2 FABRIC TOP & ADDITIONAL REINF. AS NOTED.
- DELTACORE PANELS SLAB TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACT' SPEC'.
- PROVIDE PROPPING TO 'DELTACORE' SLAB AS PER THE MANUFACT' SPEC'.
- MASONRY WALLS ARE NOT TO BE CONSTRUCTED ON SUSPENDED SLAB UNTIL FULLY DEPROPPED.
- REFER TO DETAIL FOR FIRE RPY TO SUSPENDED SLABS.
- "LMB" DENOTES LOWER MOST BAR.
- "UMB" DENOTES UPPER MOST BAR.
- "L" DENOTES LENGTH OF BAR.
- PROVIDE DRIP GROOVE TO EDGE OF BALCONIES.
- (W) DENOTES SLAB SET DOWN 30mm FOR WET AREA (NO TOPPING SLAB).
- (B) DENOTES SLAB SET DOWN 80mm FOR BALCONY (NO TOPPING SLAB).
- (V) DENOTES VOID IN SLAB.
- (ST) DENOTES STAIRWELL - REFER TO DETAILS.
- (L) DENOTES LIFT SHAFT - REFER TO DETAILS.
- PROVIDE BEARERS WITH SUFFICIENT WIDTH TO MINIMIZE DAMAGE TO DELTACORE PANELS.
- PROVIDE AN APPROVED WATER PROOFING MEMBRANE TO THE MANFACT' SPEC' TO EXTERNAL SLABS.
- CONFIRM ALL SET DOWNS, REBATES, RAMPS, FALLS ETC. WITH ARCH / CIVIL DRAWINGS.
- PROVIDE NOMINAL N20 STUDS @ 1000 C/C UNO (HEIGHT VARIES REFER TO DETAILS) TO NON-COMPOSITE FLOOR BEAMS, WELDED TO TOP FLANGE.
- ALL COMPOSITE BEAMS ARE TO BE PROPPED AT MID-SPAN FOR 14 DAYS AFTER CONCRETE POUR.
- PROVIDE SUITABLE PROTECTIVE COATING TO STRUCTURAL STEEL AS REQUIRED TO ACHIEVE THE SPECIFIED FRL.
- PROVIDE ADDITIONAL N12 @ 300 C/C TOP PERPENDICULAR DIRECTION AT ALL TILED AREAS.
- ALL SERVICE PIPE PENETRATIONS TO BE SLEEVED THROUGH SUSPENDED SLABS & BEAMS.

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE  
**LEVEL 3 MARKING & SLAB PLAN**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

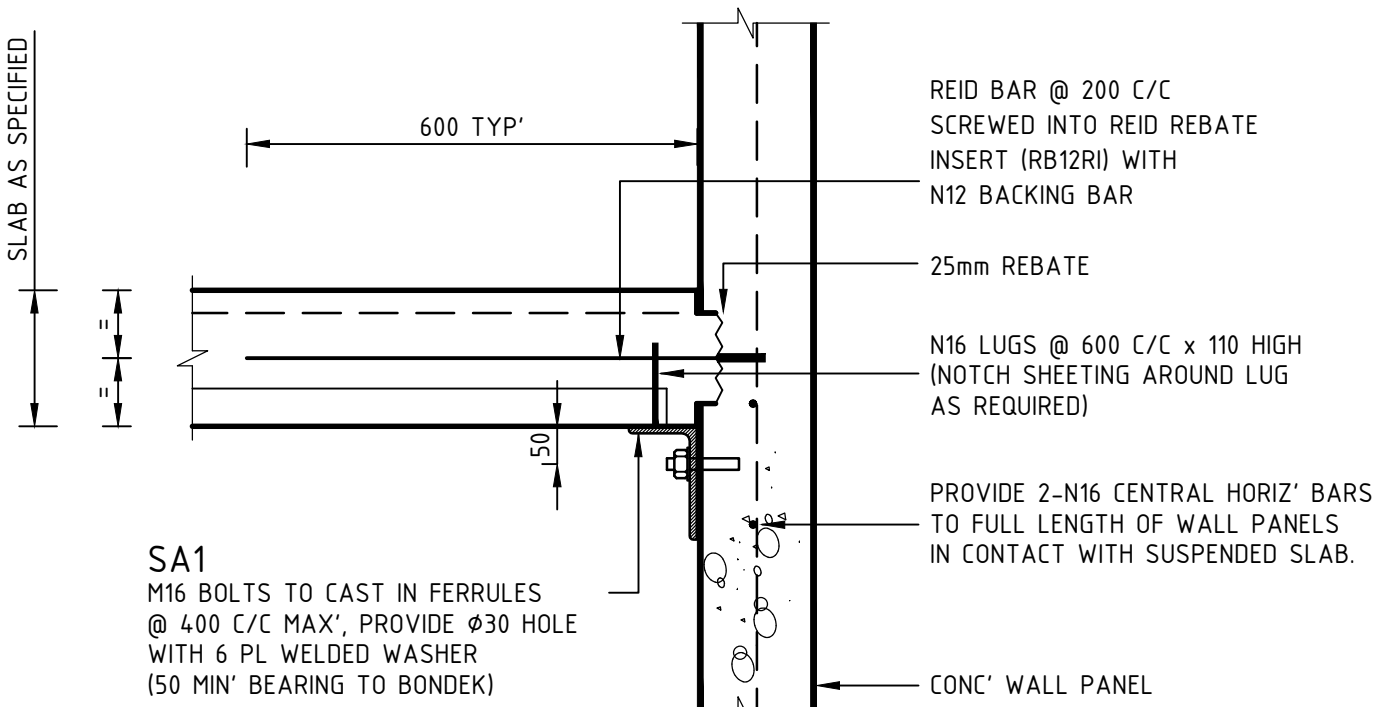
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DATE	APR '19	
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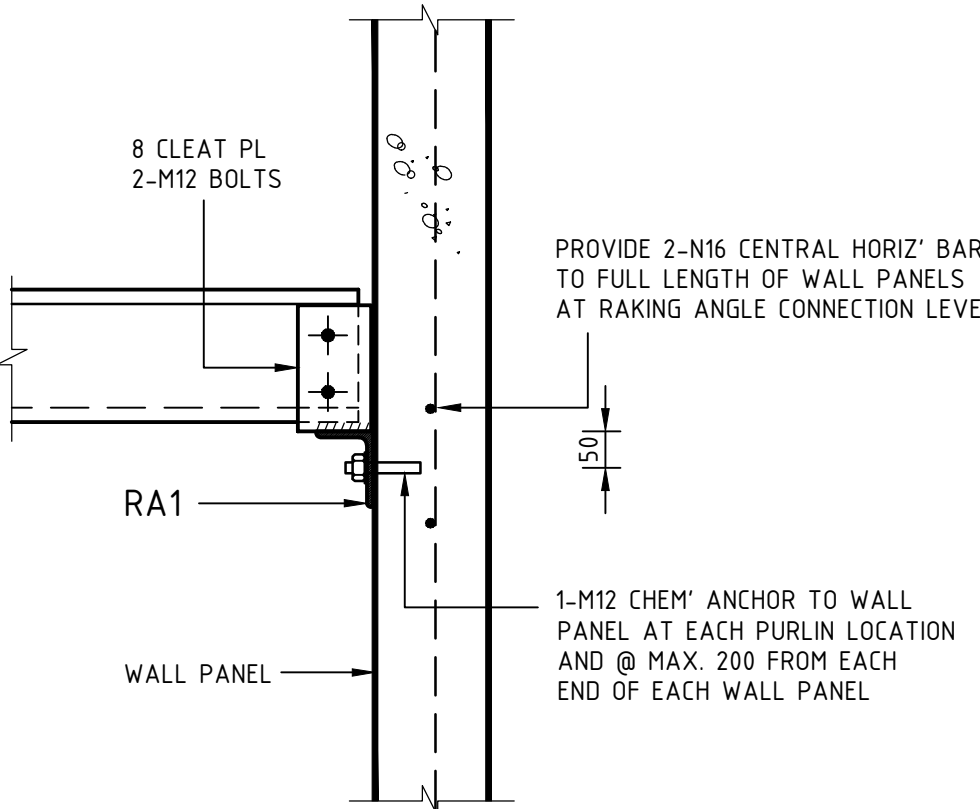
MEMBER SCHEDULE		
MARK	MEMBER	REMARKS
3.C1	89 x 89 x 5 SHS	COLUMN
RA1	100 x 75 x 8 UA	RACKING ANGLE - REFER TO DETAIL
RB1	200 UB 22	ROOF BEAM
RB2	150 PFC	ROOF BEAM
RB3	150 PFC	ROOF BEAM
RB4	125 PFC	ROOF BEAM
RB5	250 PFC	ROOF BEAM
RB6	150 x 50 x 3 RHS	ROOF BEAM
RB7	125 PFC	10 PLATE, 2-M16 CHEM SET END CONNECTION
S1	Ø76 x 3.2 CHS	STRUT
TB1	125 PFC	TIE BEAM 'ON FLAT'
BR1	65 x 65 x 6 UA	ROOF BRACING - REFER TO DETAIL
P2	Z100-15	LAPPED PURLINS @ 1200 C/C MAX, 1 ROW BRIDGING @ MIDSPAN.
P3	C100-19	PURLINS @ 1000 C/C MAX, 1 ROW BRIDGING

- STEELWORK NOTES:
- ALL STEELWORK TO BE GRADE 300+
  - ALL STEEL HOLLOW SECTION MEMBERS TO BE GRADE C450+ UNO.
  - ALL BOLTS TO BE GRADE 8.8/S. UNO
  - ALL ANCHORS TO BE HILTI HY200 INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
  - ALL EXPOSED STEELWORK TO HAVE A PROTECTIVE BARRIER THAT IS ADEQUATE FOR THE RELEVANT EXPOSURE CONDITIONS.
  - PROVIDE WELDED SLEEVES TO ALL HOLLOW SECTION MEMBERS AT BOLTING LOCATIONS.
  - ALL SECONDARY FRAMING, TRIMMERS, CLADDING SUPPORT MEMBERS AND CLEATS TO BE PROVIDE AS REQUIRED IN ACCORDANCE WITH THE CLADDING MANUFACTURERS AND THE ARCHITECTURAL SPECIFICATIONS.



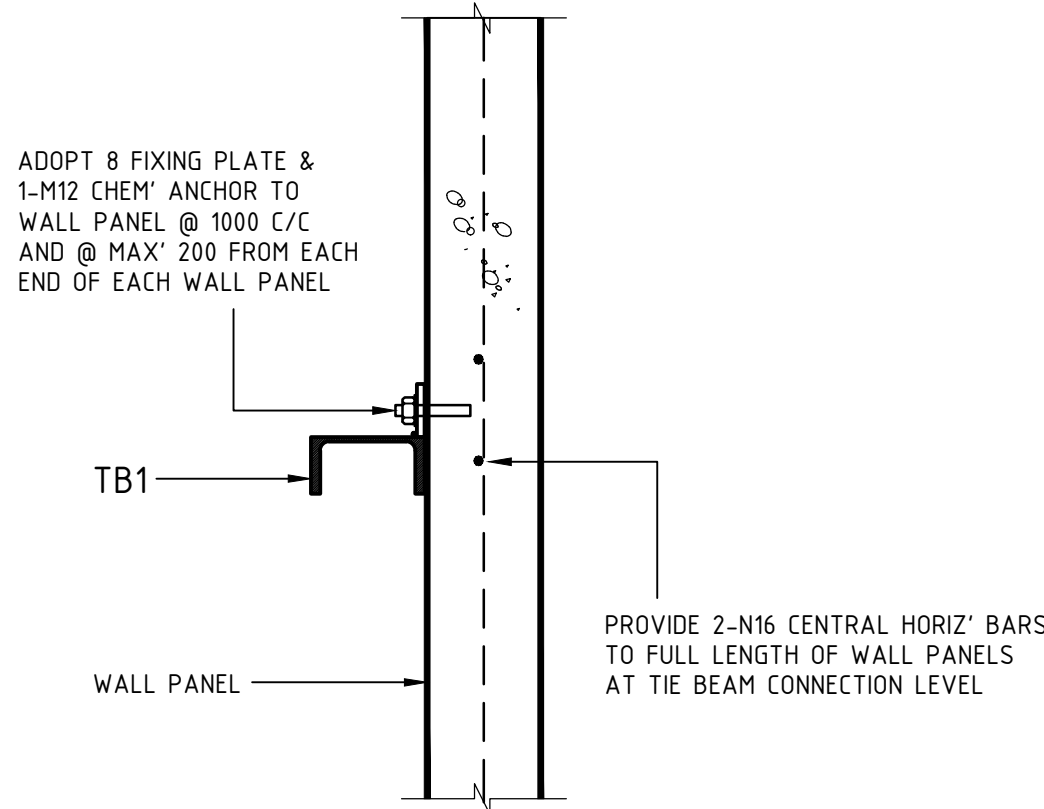
TYP' SEATING ANGLE SA1  
TO WALL PANEL CONNECTION DETAILS

1:10



TYPICAL RAKING ANGLE RA1  
CONNECTION DETAIL

1:10

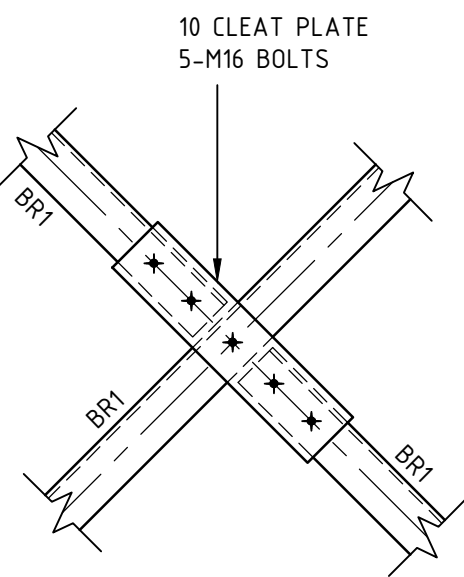


TYPICAL TIE BEAM TB1  
CONNECTION DETAIL

1:10

ROOF PURLIN PLAN

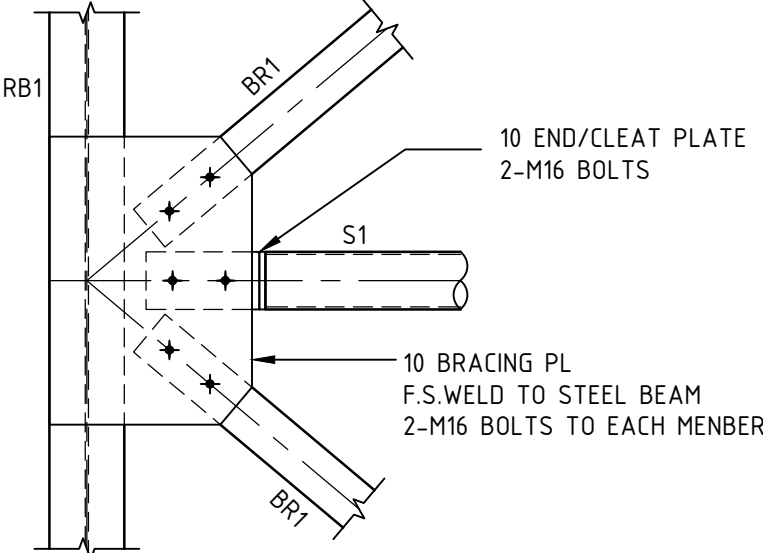
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DETAIL 1

1:10

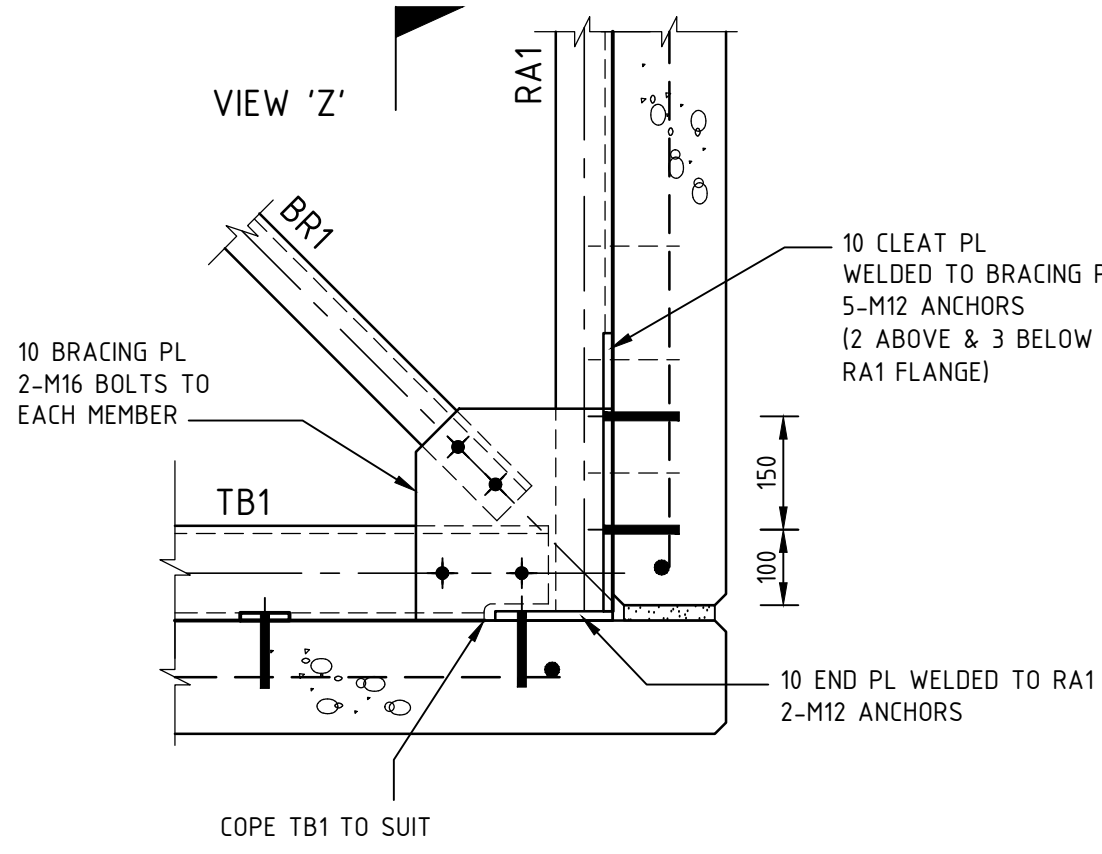
S104



DETAIL 2

1:10

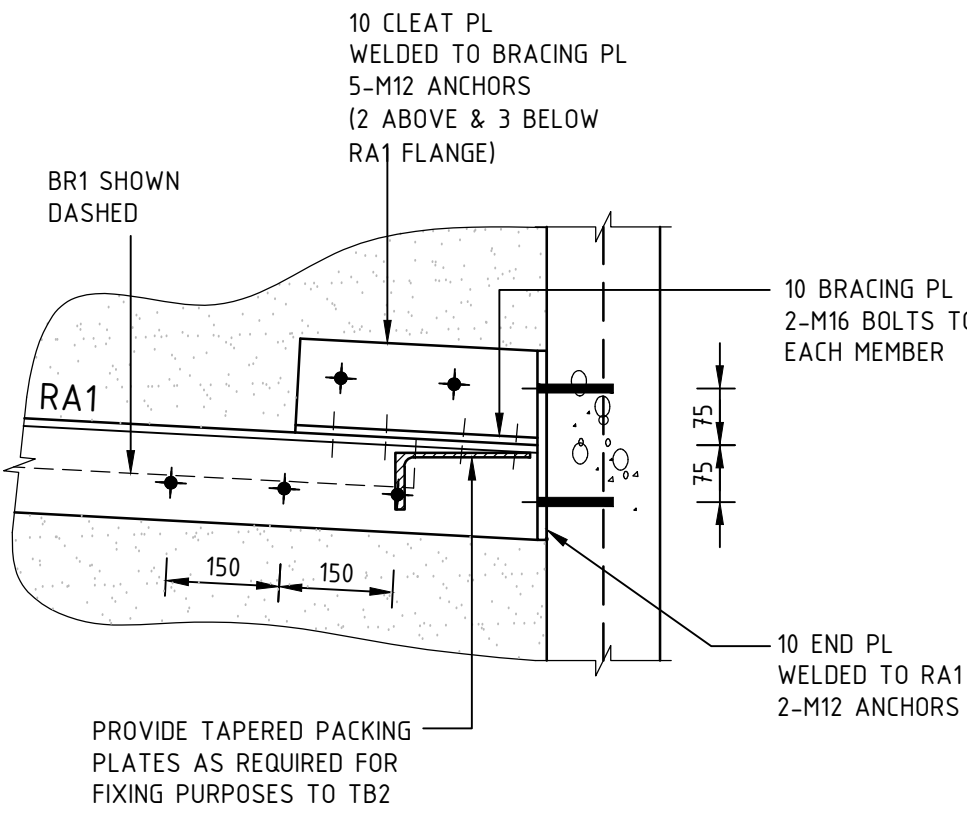
S104



DETAIL 3

1:10

S104



VIEW FROM ARROW 'Z'

1:10

C	AS NOTED	JVI	ENG	02.07.19
B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHECKED	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE  
**ROOF PLAN**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

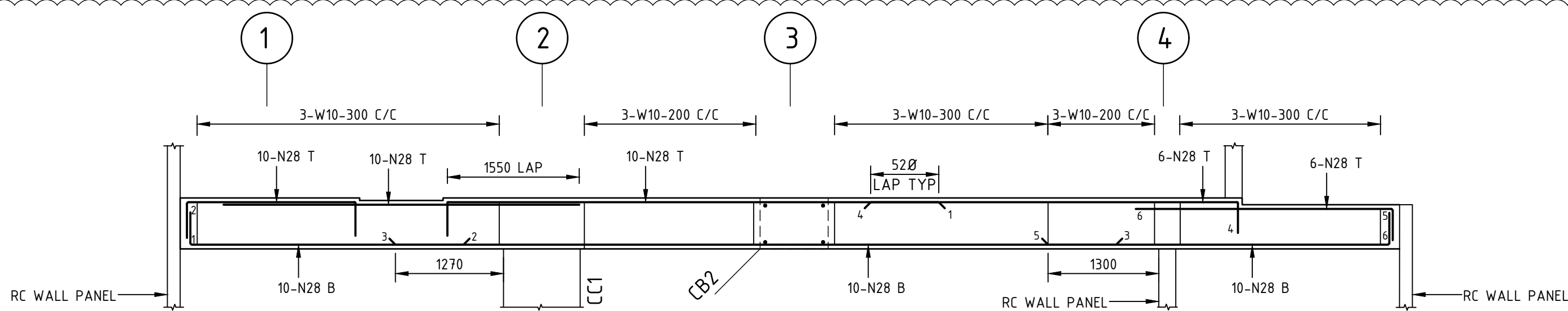
Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

**TMK**  
CONCRETE SOLUTIONS

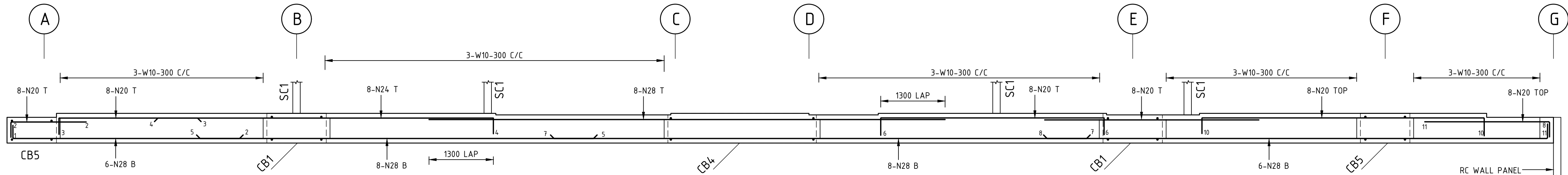
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DATE	APR '19	
ENGINEER	ASM	
CHECKED	ASM	

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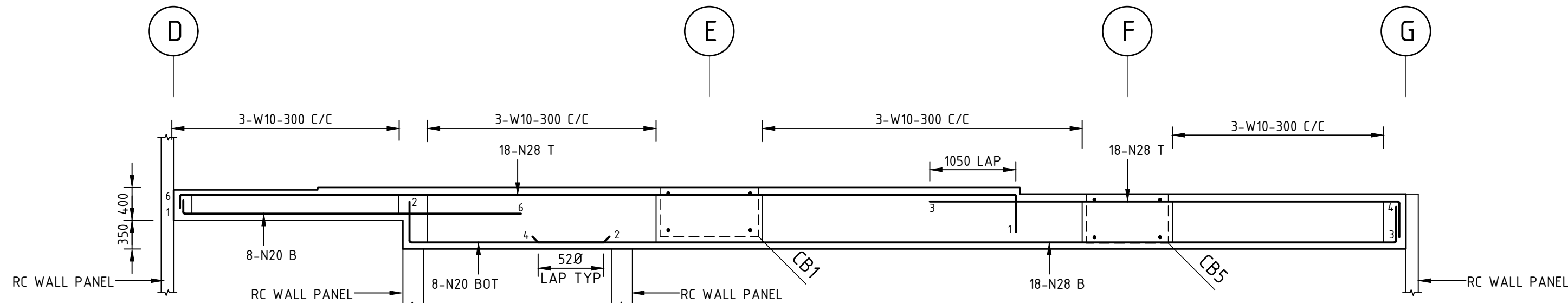
CONCRETE BEAM CB1

1 : 50  
(1200 W X 600 D)



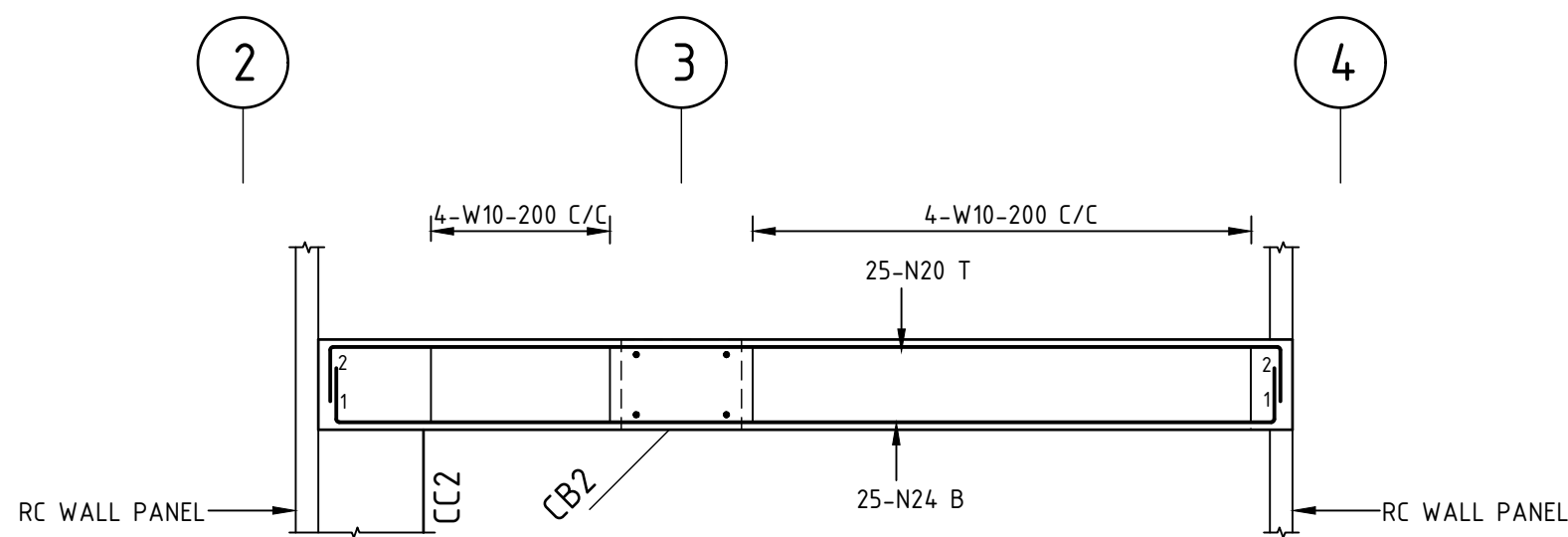
CONCRETE BEAM CB2

1 : 50  
(800 W X 600 D)



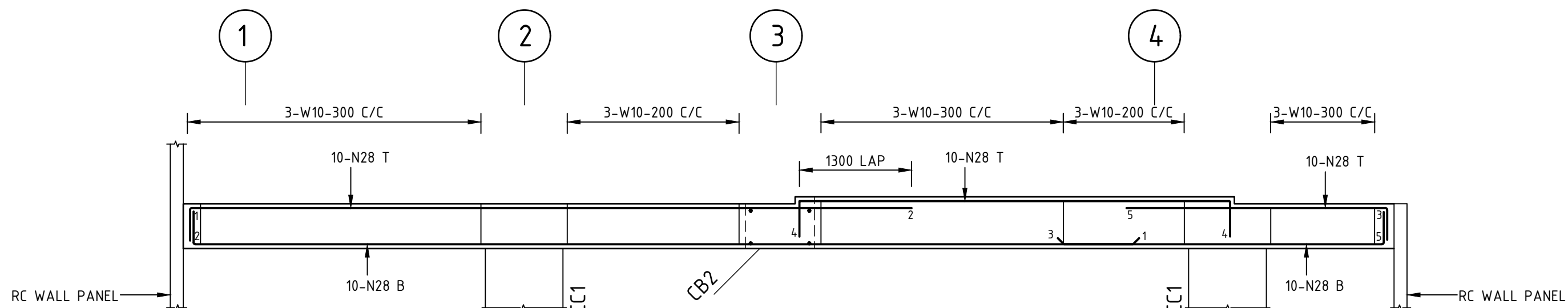
CONCRETE BEAM CB3

1 : 50  
(2000 W X 400/750/670 D)



CONCRETE BEAM CB4

1 : 50  
(3000 W X 600 D)



CONCRETE BEAM CB5

1 : 50  
(1200 W X 600/520 D)

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHECKED	DATE

PROJECT  
PROPOSED APARTMENTS  
AT: 11-13 WEST STREET,  
HINDMARSH, SA.  
FOR: KEY LARGO WATERS  
PTY LTD

DRAWING TITLE  
RC BEAM DETAILS

Civil  
Environmental  
Mechanical  
Fire  
Lifts

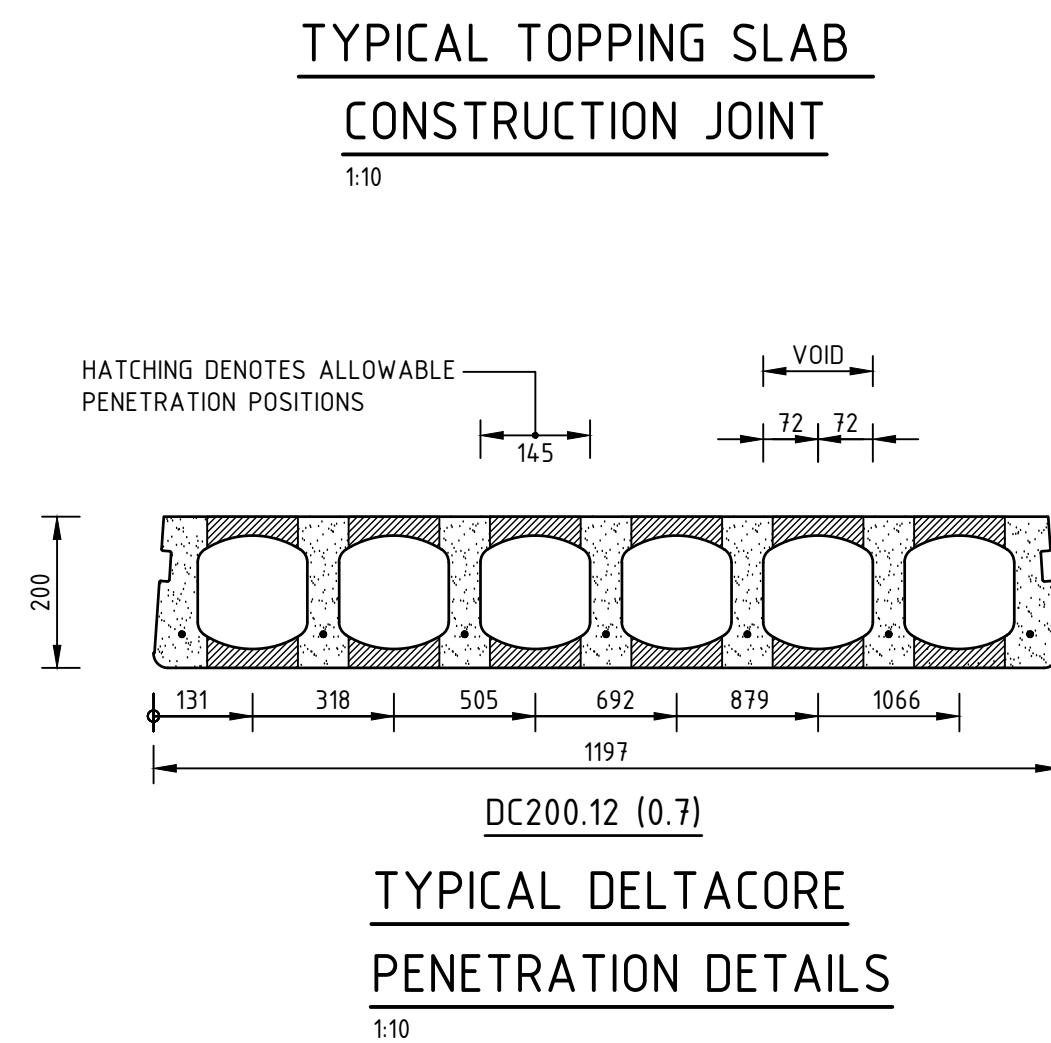
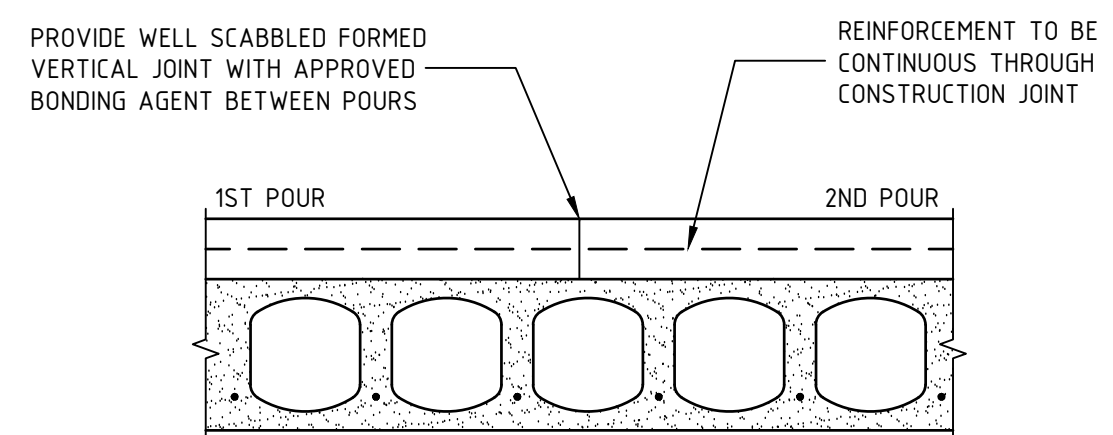
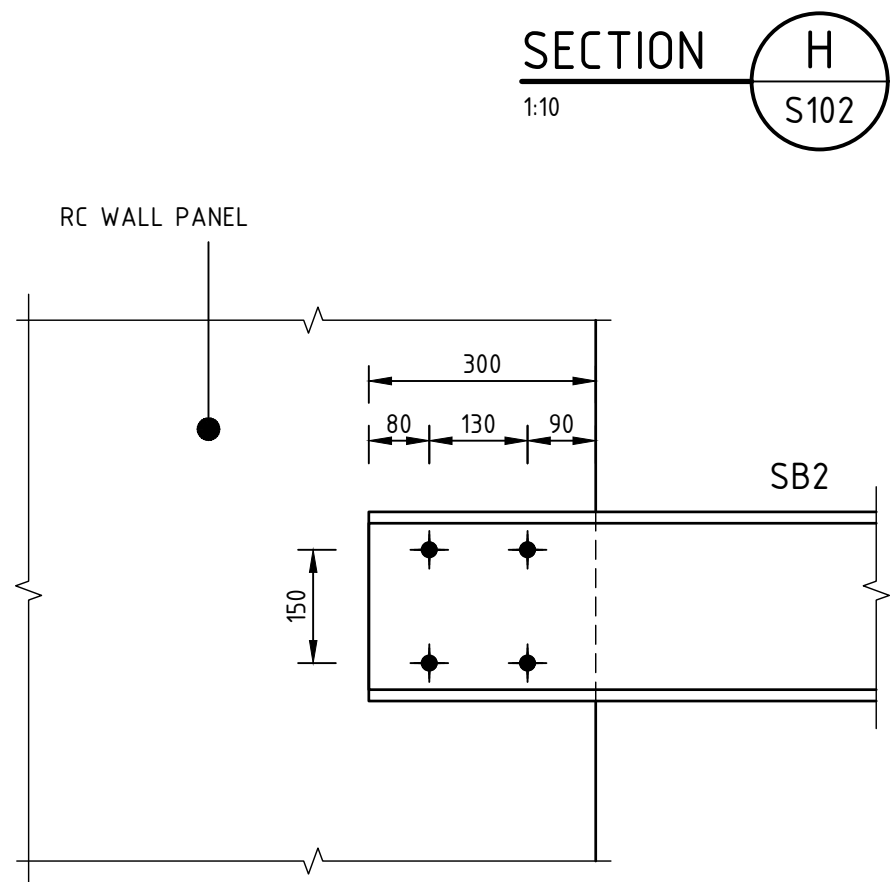
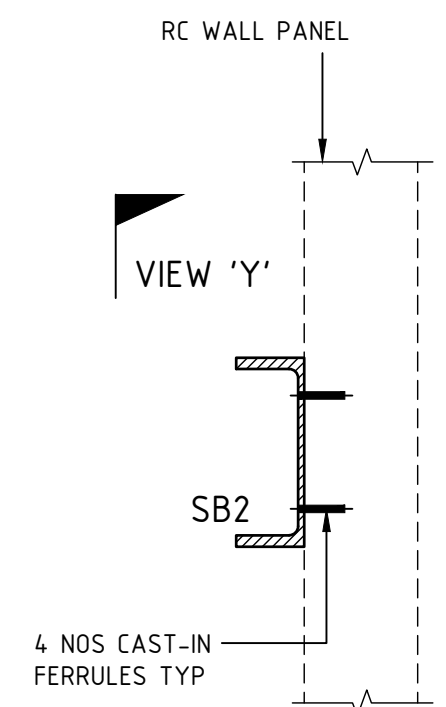
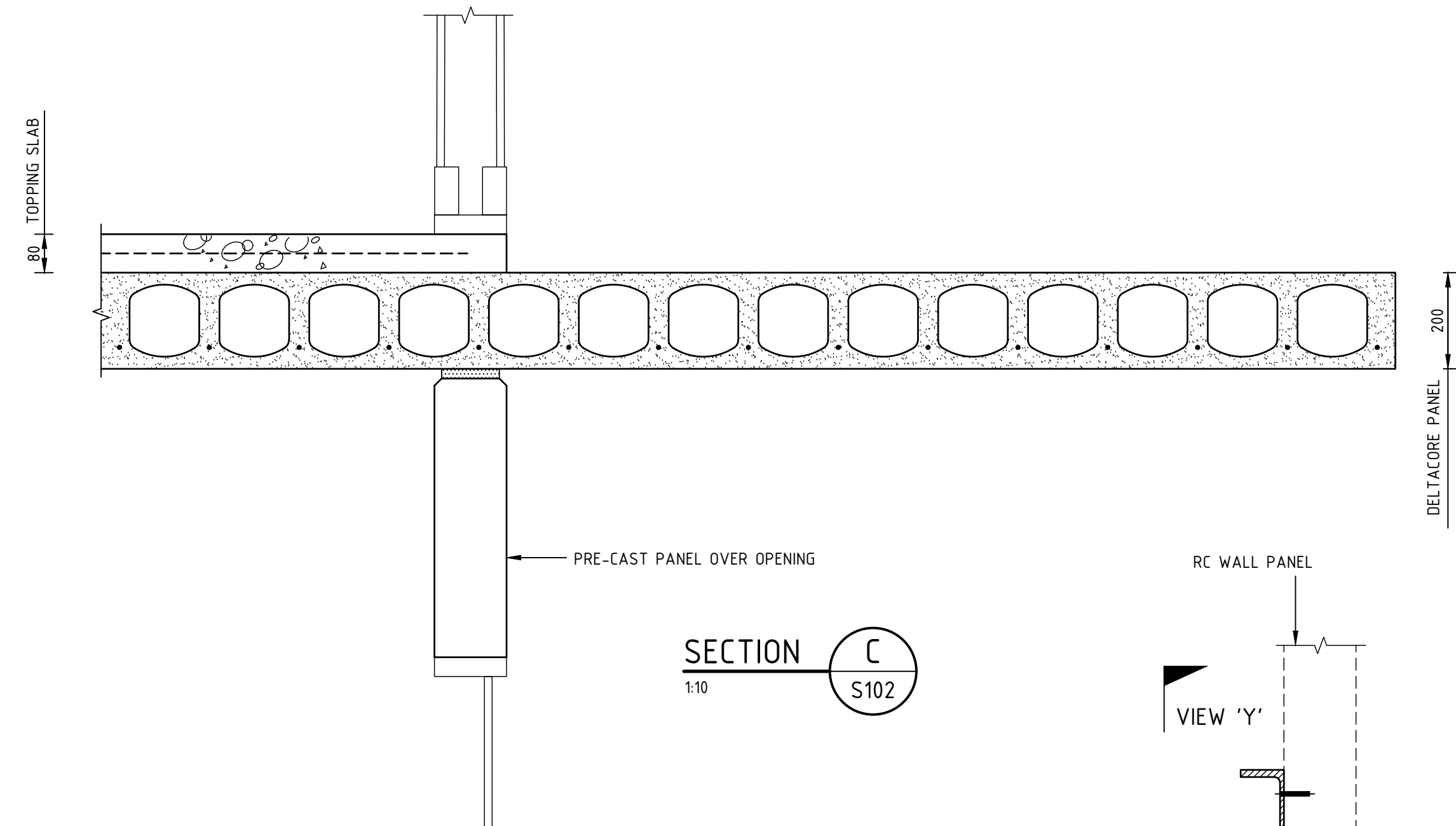
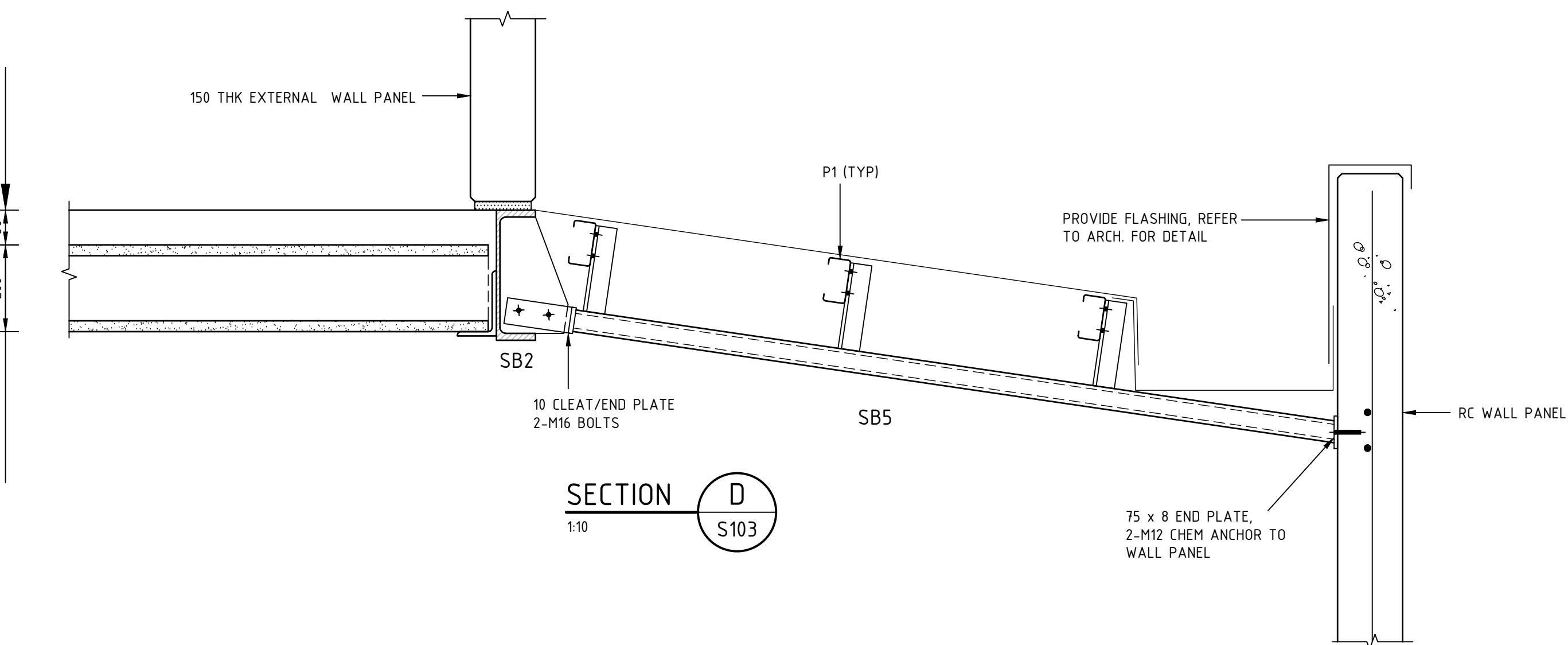
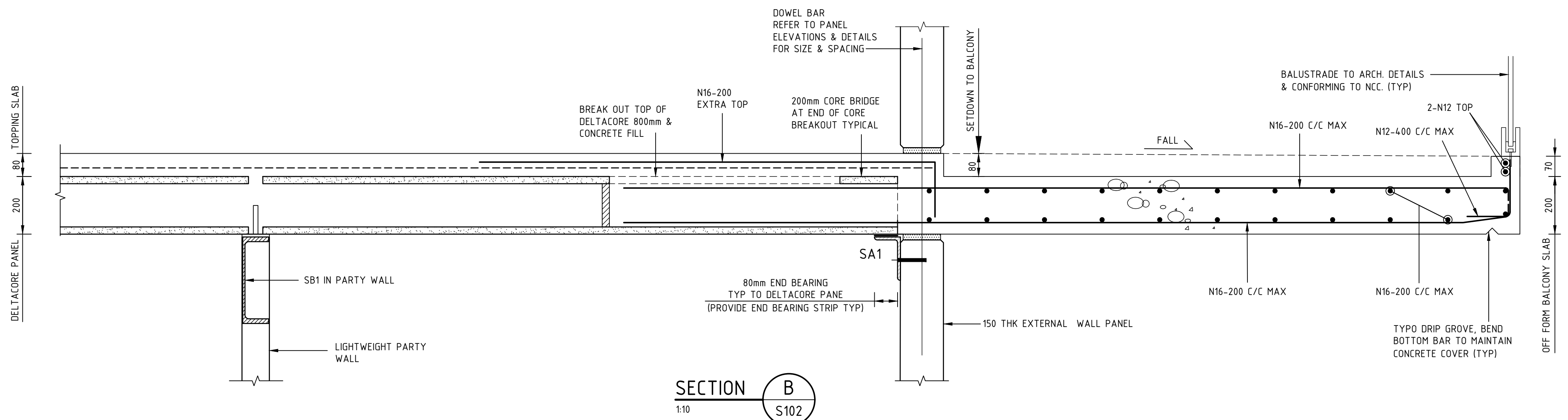
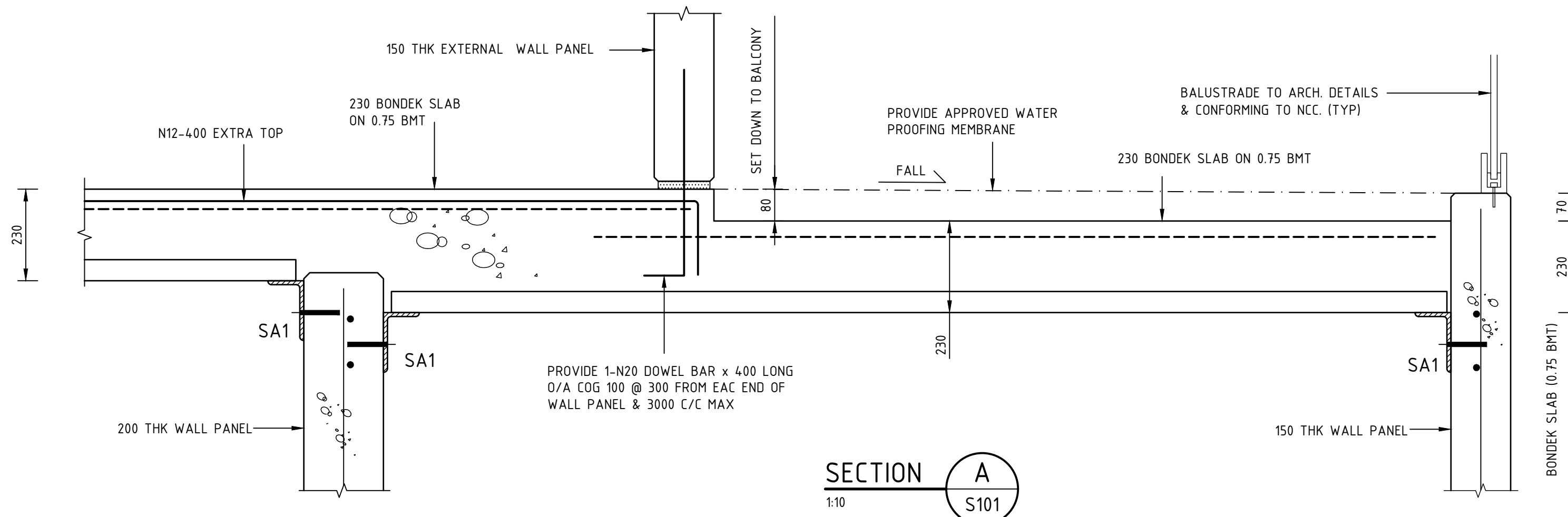
Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

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ENGINEER	ASM	
CHECKED	ASM	



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B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHECKED	DATE
PROJECT				
PROPOSED APARTMENTS AT: 11-13 WEST STREET, HINDMARSH, SA. FOR: KEY LARGO WATERS PTY LTD				
DRAWING TITLE				
SECTION & DETAILS				
Civil Environmental Mechanical Fire Lifts				
Structural Geotechnical Electrical Hydraulics Green ESD				
Level 6, 100 Pirie Street, Adelaide SA 5000 Telephone 08 8238 4100 Facsimile 08 8410 1405 Berri Office: 25 Vaughan Terrace, Berri SA 5343				
TMK CONCRETE SOLUTIONS				
SCALES				
AS SHOWN				
DRAWN JVI				
DATE APR '19				
ENGINEER ASM				
CHECKED ASM				
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DRAWING No.				
1903075-S201/B				



1:10  
NOTE: PURLINS ARE OMITTED FOR CLARITY

1:10  
NOTE: PURLINS ARE OMITTED FOR CLARITY

NOTE:  
PROVIDE 40 MPa CONCRETE WITH XYPEX ADDITIVE OR SIMILAR TO  
ACHIEVE WATER TIGHT MIX APPLIED IN ACCORDANCE WITH THE  
MANUFACTURERS SPECIFICATIONS TO LIFT PIT WALLS & BASE SLAB

## 1 : 20

C	AS NOTED	JVI	ENG	02.07.19
B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KO	DATE

PROJECT

**PROPOSED APARTMENTS**

AT: 11-13 WEST STREET,  
HINDMARSH, SA.

FOR: KEY LARGO WATERS  
PTY LTD

DRAWING TITLE

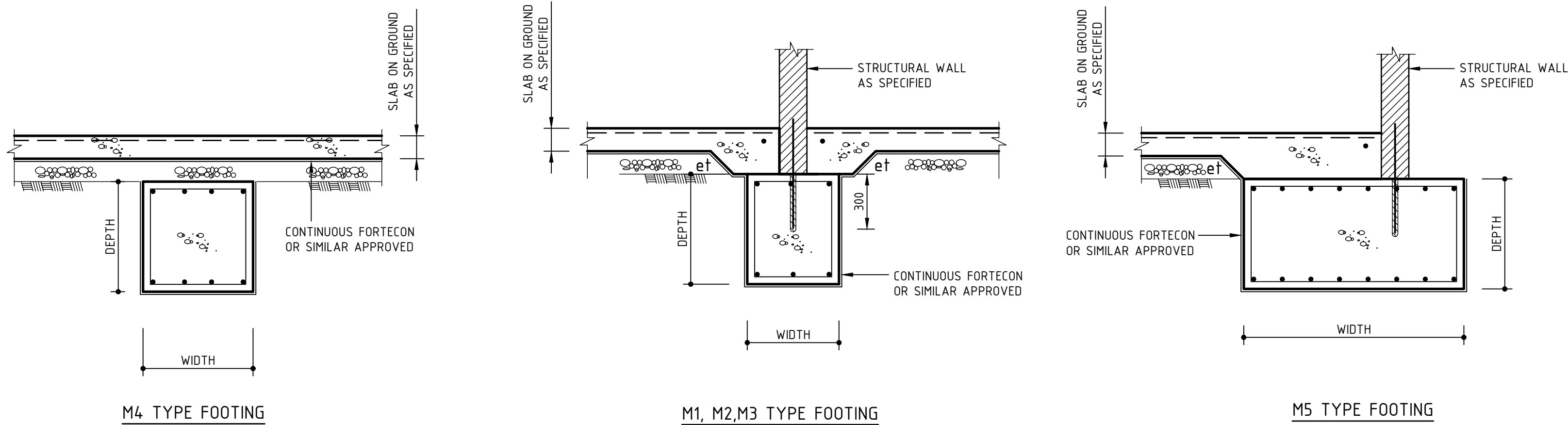
**SECTION & DETAILS**

<p>Civil</p> <p>Environmental</p> <p>Mechanical</p> <p>Fire</p> <p>Lifts</p> <p>Level 6, 100 Pirie Street, Adelaide SA 5000</p> <p>Telephone 08 8238 4100</p> <p>Facsimile 08 8410 1605</p> <p>Berri Office: 25 Vaughan Terrace, Berri SA 5343</p>	<p>Structural</p> <p>Geotechnical</p> <p>Electrical</p> <p>Hydraulics</p> <p>Green ESD</p>
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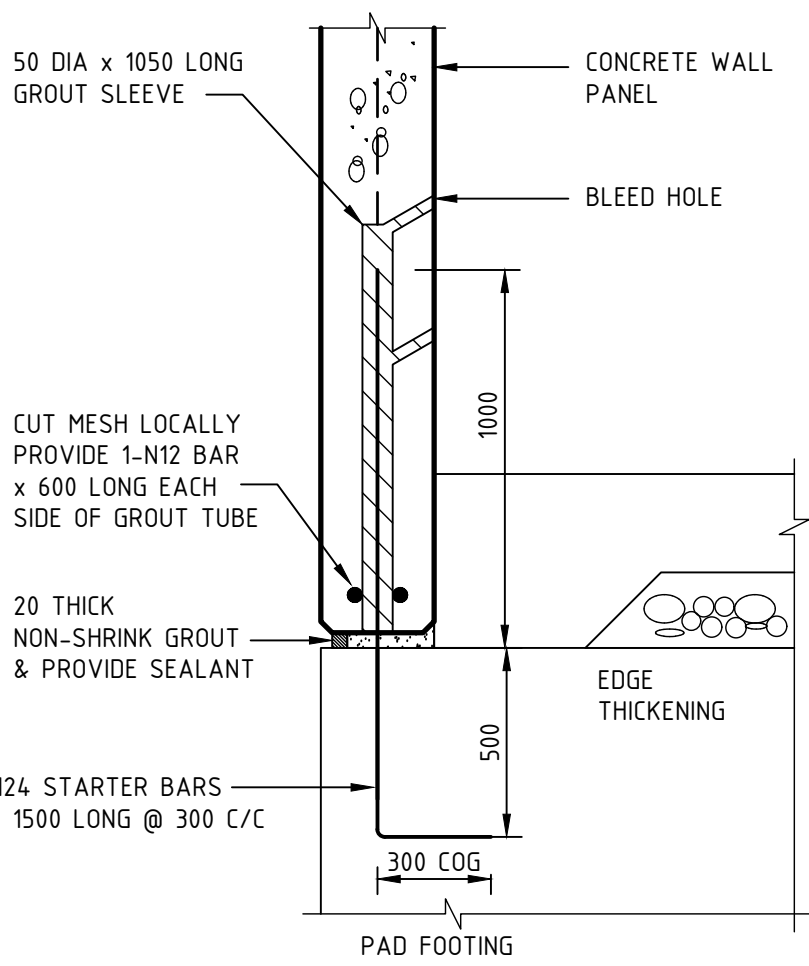


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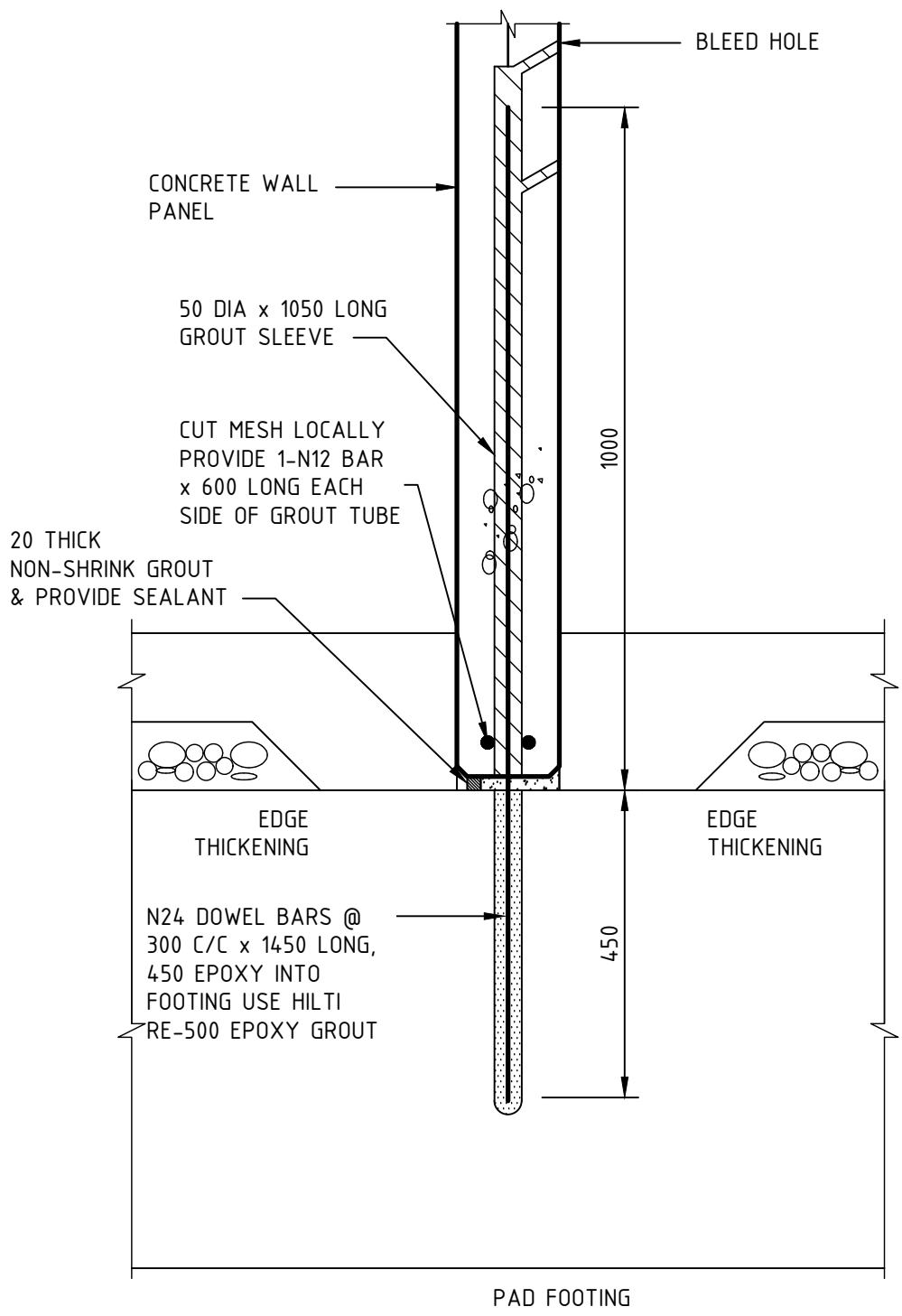
REFER DRAWING S0 FOR GENERAL NOTES



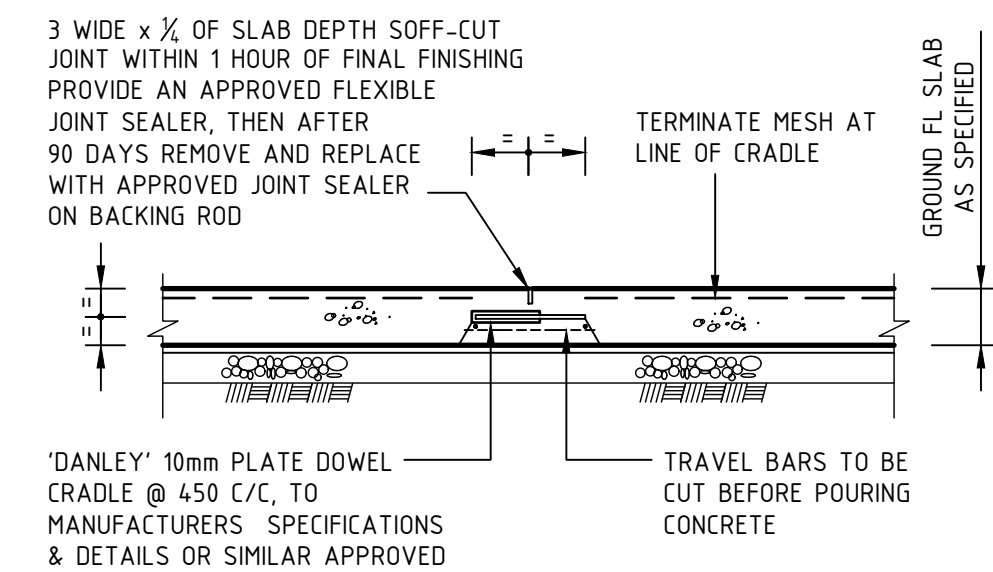
TYPICAL FOOTING BEAM DETAIL  
1:20



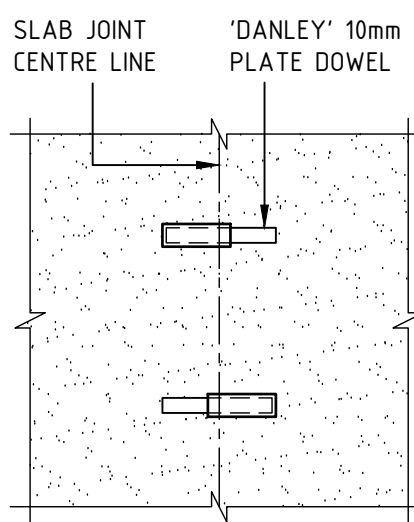
PANEL BASE CONNECTION TYPE - D1  
NTS  
NOTE:  
REFER TO PANEL ELEVATIONS & NOTES FOR  
DOWEL BAR LOCATIONS & SPACING



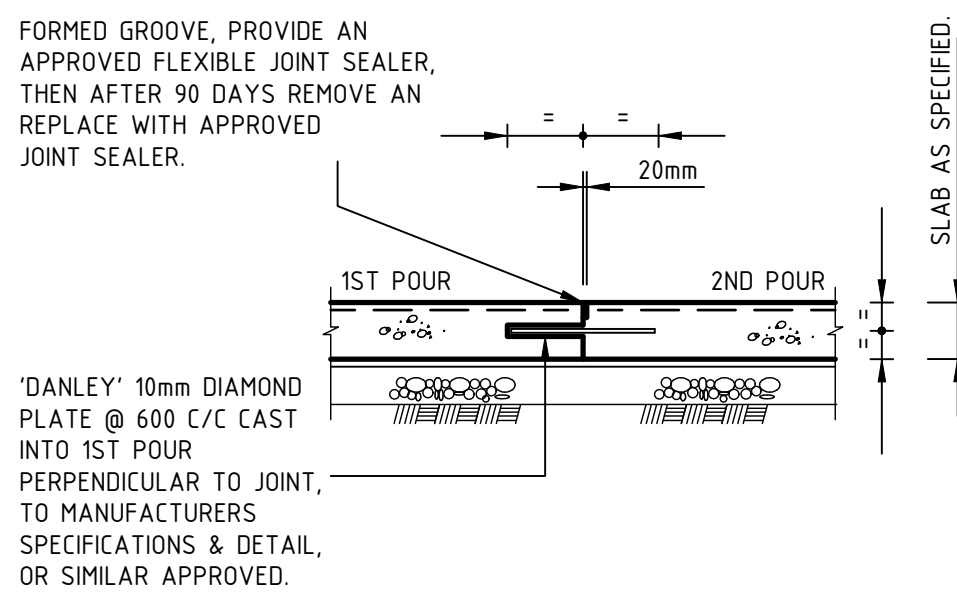
PANEL BASE CONNECTION TYPE - D2  
NTS  
NOTE:  
REFER TO PANEL ELEVATIONS & NOTES FOR  
STARTER BAR LOCATIONS & SPACING



DENOTED 'SFJ' ON PLAN  
SOFF-CUT DOWELLED JOINT  
1:20

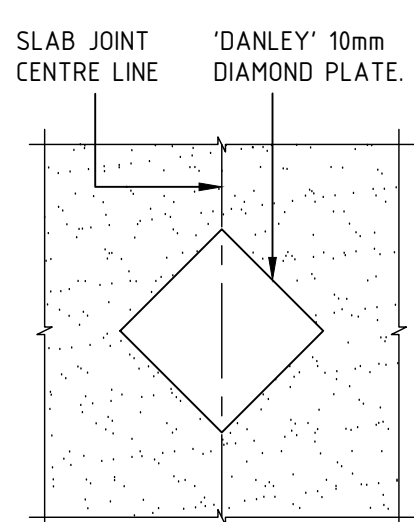


PLAN VIEW  
1:20

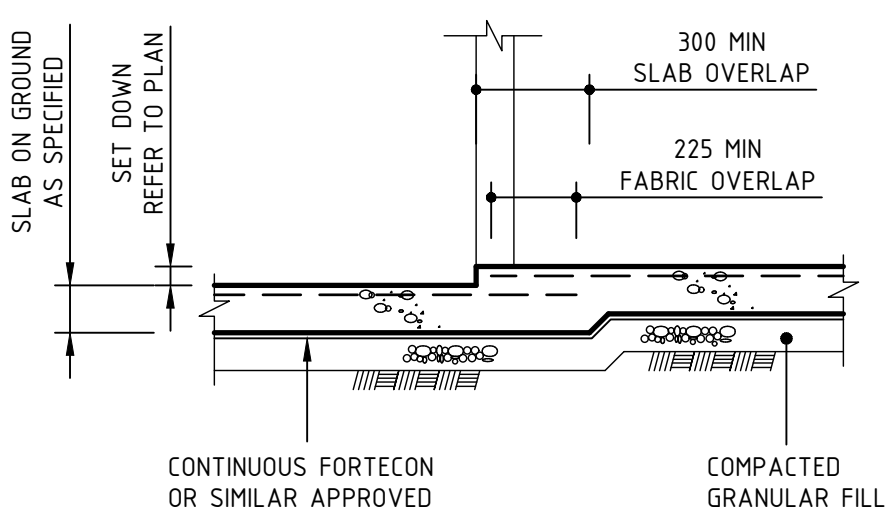


DENOTED 'DJ' ON PLAN

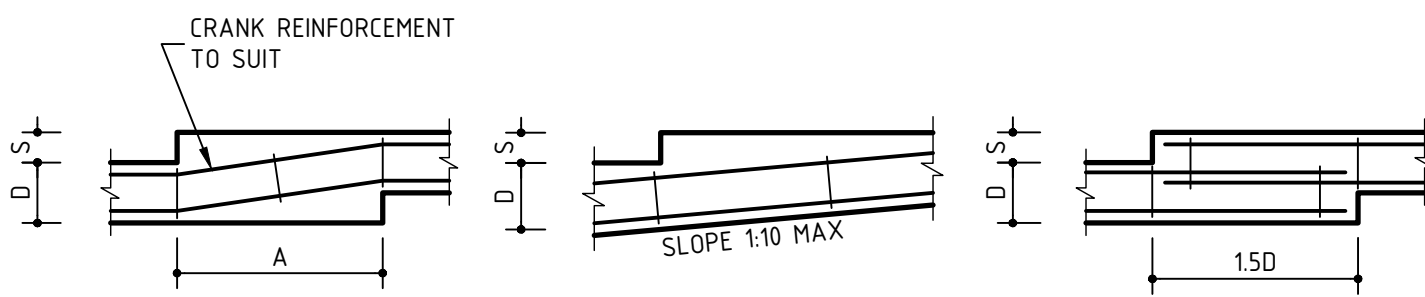
CONSTRUCTION JOINT



PLAN VIEW  
1:20



TYPICAL WET AREA SLAB SET DOWN DETAIL  
1:20

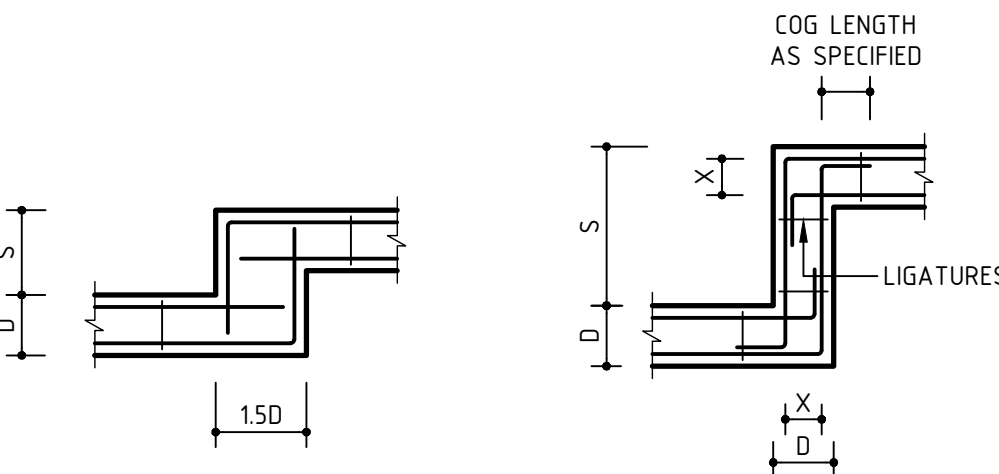


OPTION 1

OPTION 2

OPTION 3

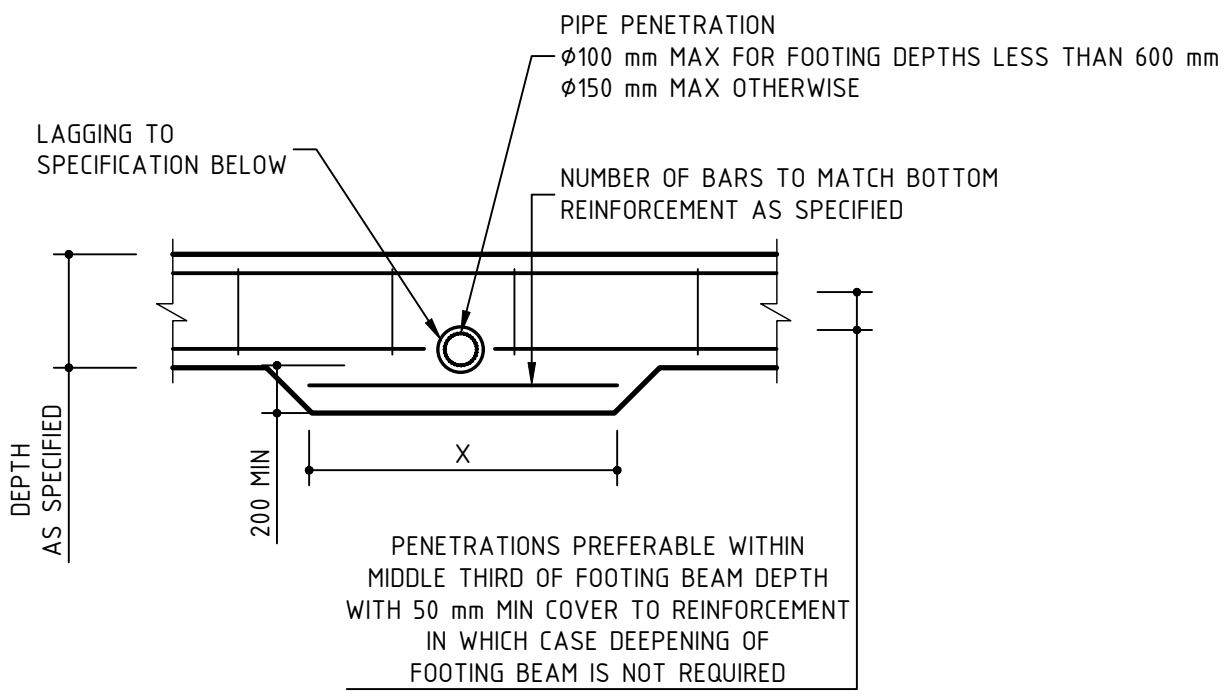
STEP 'S' FOR 2 MASONRY COURSES (200 mm OR LESS)



STEP 'S' GREATER THAN 200, AND LESS THAN '2D'

STEP 'S' GREATER THAN '2D' (DROP PIER)  
COGS MAY BE OMITTED IF 'X' IS GREATER THAN OR EQUAL TO SPECIFIED COG LENGTH

TYPICAL FOOTING STEP DETAILS  
NTS

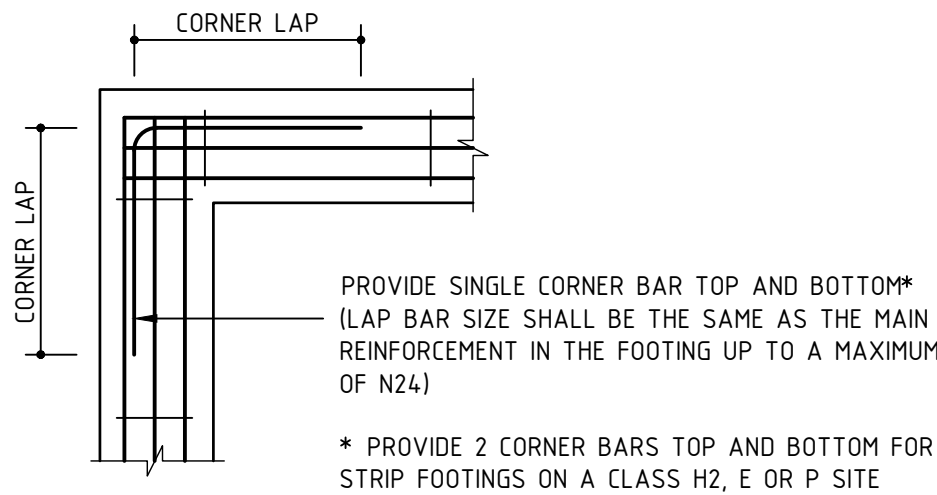


LAP BAR IN DEEPEENED FOOTING	
LAP BAR LENGTH X, mm	MAIN (& LAP) BAR REINF. SIZE
1200	N12
1700	N16
2200	N20
3100	N24

SERVICE PIPE LAGGING	
SITE SOIL CLASSIFICATION	CLOSED CELL POLYETHYLENE LAGGING THICKNESS, mm
S	20*
M, H1	20
H2, E, P	40
* NEED NOT BE CLOSED CELL	

FOOTING SERVICE PENETRATION DETAIL

NTS  
NOTE:  
FOOTING PENETRATIONS NOT COVERED BY THE ABOVE ARE NOT PERMITTED WITHOUT SPECIFIC ADVICE & APPROVAL FROM THIS OFFICE



CORNER LAP LENGTHS

N12, 16, 20 - 500mm MIN.  
N24, 28, 32 - 1000mm MIN.

ADDITIONAL CORNER REINFORCEMENT  
NTS

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHEKD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE  
**TYPICAL FOOTING DETAIL**

Civil Environmental Mechanical Fire Lifts  
Structural Geotechnical Electrical Hydraulics Green ESD  
Level 6, 100 Pirie Street, Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace, Berri SA 5343

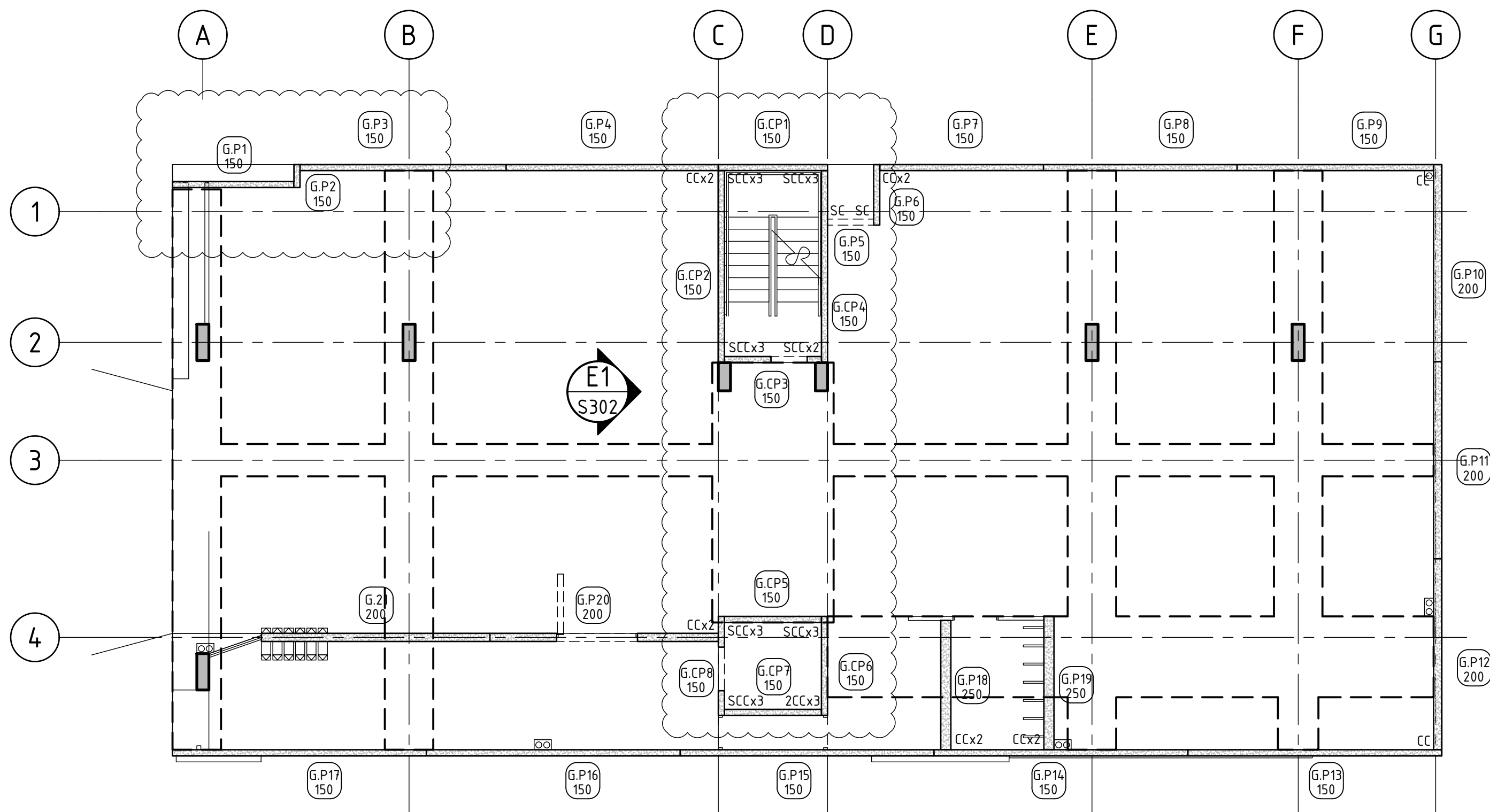


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GROUND FLOOR WALL PANEL PLAN

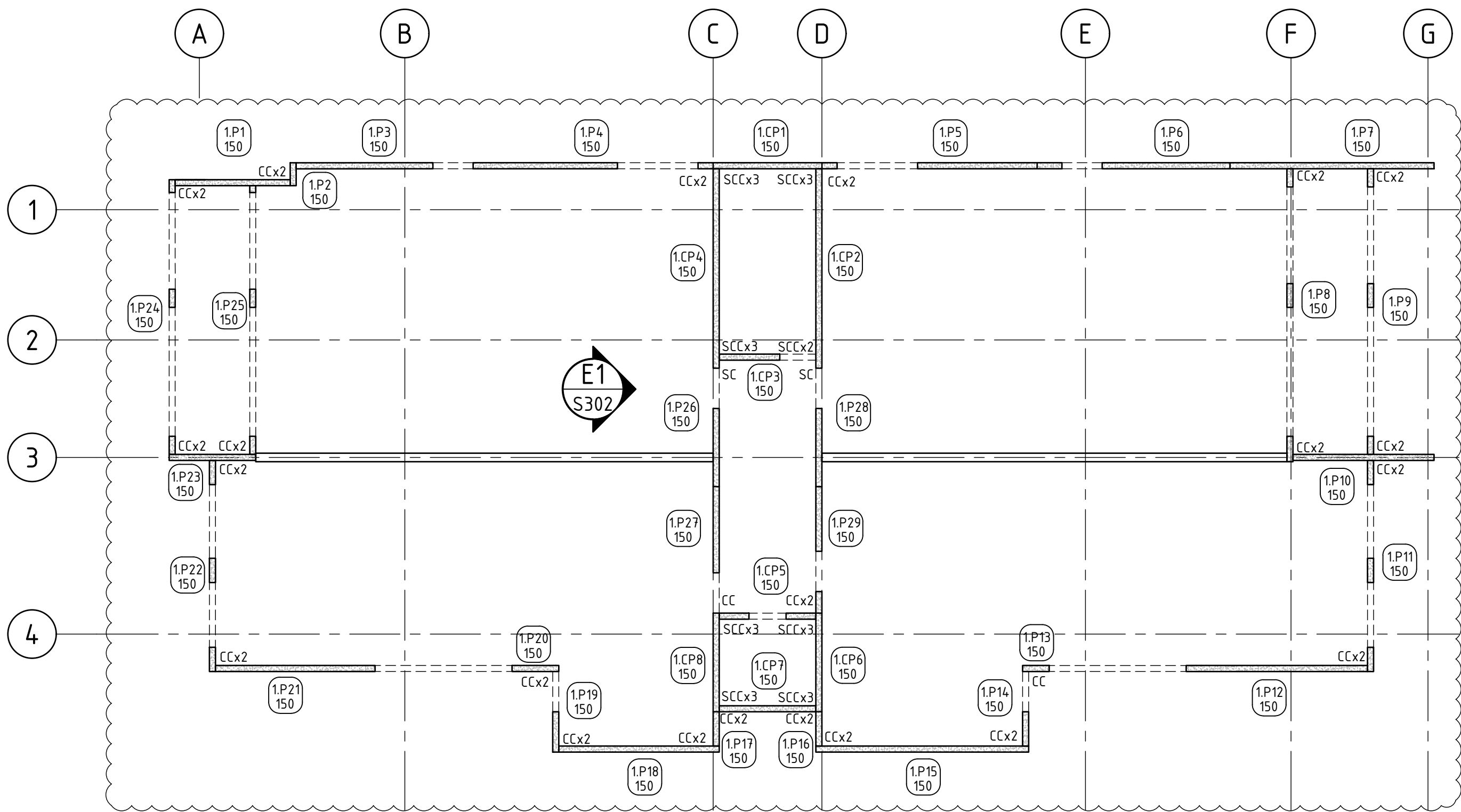
1:100

WALL PANEL NOTES:

- WALL PANELS TO BE 150 THICK UNO. (25mm MAX. GROOVE DEPTH) SL102 CENTRAL + N20 EDGE BARS CENTRAL (UNO) & ADDITIONAL REINFORCEMENT AS NOTED.
- WALL PANELS TO BE 200/250 THICK UNO. (25mm MAX. GROOVE DEPTH) SL102 EACH FACE (UNO) + N16 EDGE BARS EACH FACE (UNO) & ADDITIONAL REINFORCEMENT AS NOTED.
- LIFT/STAIR CORE WALL PANELS TO BE 150 THICK UNO. (25mm MAX. GROOVE DEPTH) SL102 CENTRAL + N20 EDGE BARS & ADDITIONAL REINFORCEMENT AS NOTED.
- REFER TO WALL PANEL ELEVATIONS & DETAILS FOR DOWEL FIXINGS.
- CONFIRM PANEL SIZES WITH PRECAST CONTRACTOR, THE ENGINEER IS TO BE NOTIFIED IF PANEL SIZES ARE TO BE ADJUSTED.
- REINFORCEMENT SPECIFIED IS FOR 'IN POSITION' LOADING ONLY. THE MANUFACTURER IS TO PROVIDE ANY ADDITIONAL REQ' IF REQUIRED FOR CASTING, TRANSPORTATION, LIFTING, ERECTION ETC.
- REFER TO ARCHITECTURAL DRAWINGS FOR ANY ARCH' FEATURES, PENETRATIONS, DP'S ETC.
- REFER TO SECTIONS & ELEVATIONS FOR ADDITIONAL REINFORCEMENT.
- ENSURE APPROPRIATE COVER TO CAST IN PLATE LUGS AT GROOVE LOCATIONS THE ENGINEER IS TO BE NOTIFIED IF SUCH CLASHING OCCURS.
- PENETRATIONS IN WALL PANELS FOR SERVICES ARE TO BE CONSTRUCTED DURING CASTING OF WALL PANELS.
- ALL FERRULES TO BE RAMSET ROUND FERRULES x 96mm LONG WITH N12 x 300 LONG BACKING ROD UNO.
- PROVIDE MINIMUM CLEAR COVER OF 35mm TO ALL REINFORCEMENT.
- PROVIDE 'XYPEX' OR SIMILAR APPROVED MOISTURE PROOFING ADDITIVE TO ALL WALL PANELS RETAINING SOIL, TO MANUFACTURERS SPECIF

LEGEND

- G.P.1 150 DENOTES 150 THICK WALL PANEL TYPE
- G.P.11 200 DENOTES 200 THICK WALL PANEL TYPE
- G.P.18 250 DENOTES 250 THICK WALL PANEL TYPE
- G.CP.1 150 DENOTES 150 THICK LIFT/STAIR CORE WALL PANEL TYPE
- CC DENOTES CORNER PANEL CONNECTION  
REFER TO DETAILS
- SC DENOTES SUSPENDED WALL PANEL CONNECTION  
REFER TO DETAILS
- SCC DENOTES SUSPENDED CORNER PANEL CONNECTION  
REFER TO DETAILS



LEVEL 1 WALL PANEL PLAN

1:100

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

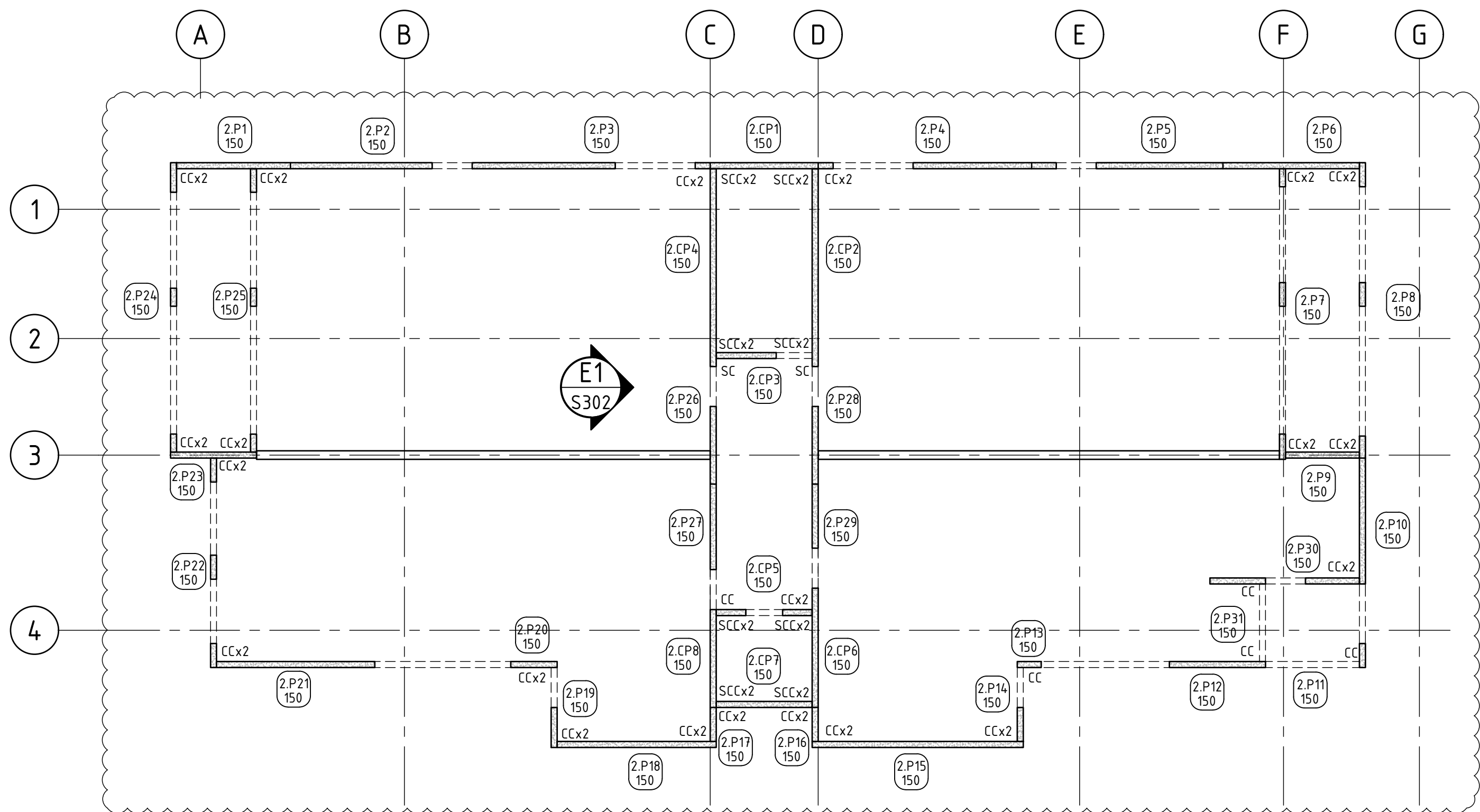
DRAWING TITLE  
**WALL PANEL PLAN**

Civil Structural  
Environmental Geotechnical  
Mechanical Electrical  
Fire Hydraulics  
Lifts Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

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ENGINEER	ASM	
CHECKED	ASM	

REFER DRAWING S0 FOR GENERAL NOTES



LEVEL 2 WALL PANEL PLAN

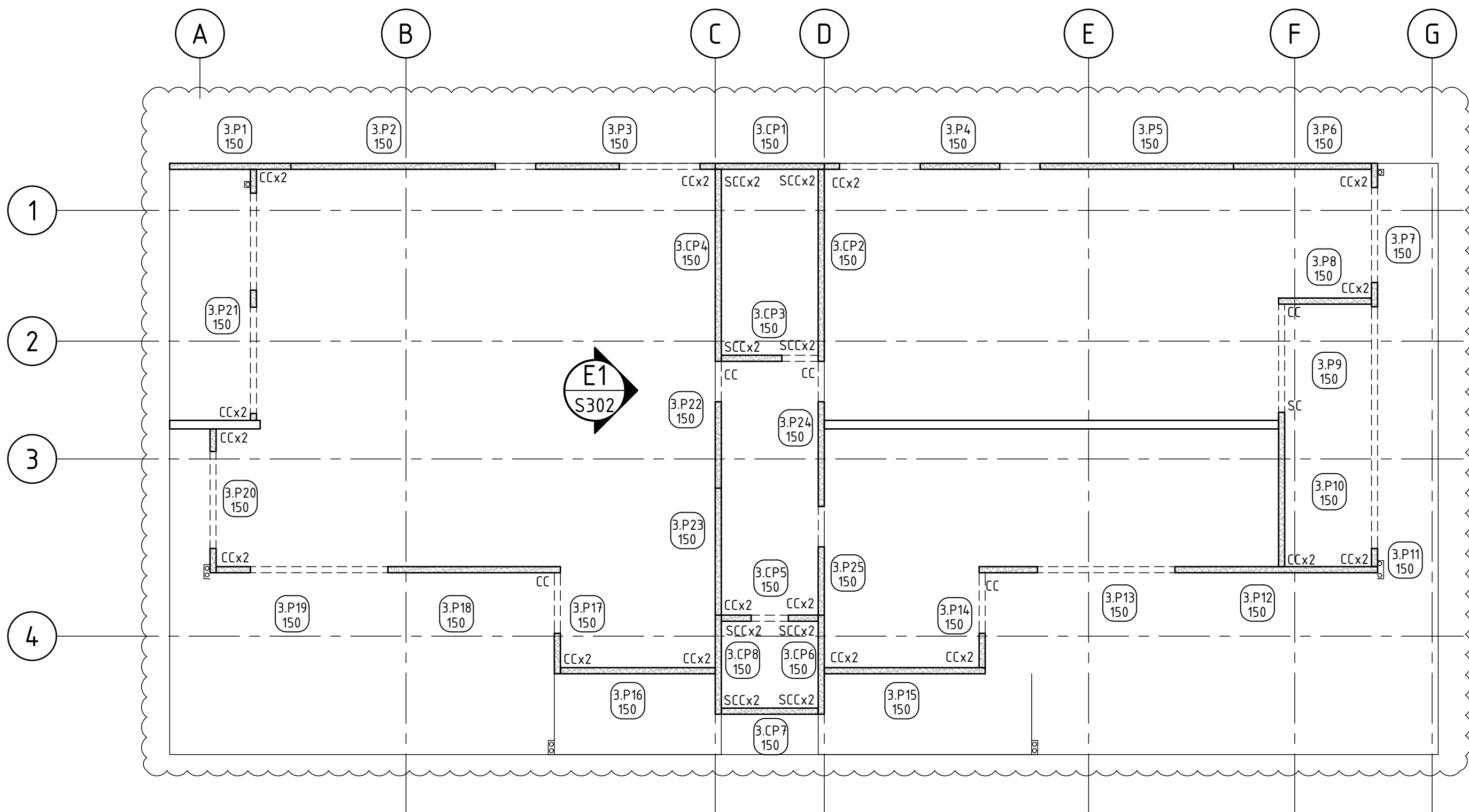
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WALL PANEL NOTES:

1. WALL PANELS TO BE 150 THICK UNO. (25mm MAX. GROOVE DEPTH) SL102 CENTRAL + N20 EDGE BARS CENTRAL (UNO) & ADDITIONAL REINFORCEMENT AS NOTED.
2. LIFT/STAIR CORE WALL PANELS TO BE 150 THICK UNO. (25mm MAX. GROOVE DEPTH) SL102 CENTRAL + N20 EDGE BARS & ADDITIONAL REINFORCEMENT AS NOTED.
3. REFER TO WALL PANEL ELEVATIONS & DETAILS FOR DWEL FIXINGS.
4. CONFIRM PANEL SIZES WITH PRECAST CONTRACTOR, THE ENGINEER IS TO BE NOTIFIED IF PANEL SIZES ARE TO BE ADJUSTED.
5. REINFORCEMENT SPECIFIED IS FOR "IN POSITION" LOADING ONLY. THE MANUFACT' IS TO PROVIDE ANY ADDITIONAL REQ' IF REQUIRED FOR CASTING, TRANSPORTATION, LIFTING, ERECTION ETC.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ARCH' FEATURES, PENETRATIONS, DP'S ETC.
7. REFER TO SECTIONS & ELEVATIONS FOR ADDITIONAL REINFORCEMENT.
8. ENSURE APPROPRIATE COVER TO CAST IN PLATE LUGS AT GROOVE LOCATIONS THE ENGINEER IS TO BE NOTIFIED IF SUCH CLASHING OCCURS.
9. PENETRATIONS IN WALL PANELS FOR SERVICES ARE TO BE CONSTRUCTED DURING CASTING OF WALL PANELS.
10. ALL FERRULES TO BE RAMSET ROUND FERRULES x 96mm LONG WITH N12 x 300 LONG BACKING ROD UNO.
11. PROVIDE MINIMUM CLEAR COVER OF 35mm TO ALL REINFORCEMENT.
12. PROVIDE 'XYPEX' OR SIMILAR APPROVED MOISTURE PROOFING ADDITIVE TO ALL WALL PANELS RETAINING SOIL, TO MANUFACTURERS SPECIF'

LEGEND

- 2.P1  
150
- DENOTES 150 THICK WALL PANEL TYPE
- 2.CP1  
150
- DENOTES 150 THICK LIFT/STAIR CORE WALL PANEL TYPE
- CC
- DENOTES CORNER PANEL CONNECTION  
REFER TO DETAILS
- SC
- DENOTES SUSPENDED WALL PANEL CONNECTION  
REFER TO DETAILS
- SCC
- DENOTES SUSPENDED CORNER PANEL CONNECTION  
REFER TO DETAILS



LEVEL 3 WALL PANEL PLAN

1:100

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT

PROPOSED APARTMENTS  
AT: 11-13 WEST STREET,  
HINDMARSH, SA.  
FOR: KEY LARGO WATERS  
PTY LTD

DRAWING TITLE

WALL PANEL PLAN

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

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DATE	1903075-S301/B
ENGINEER	
CHECKED	





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NORTH ELEVATION

1:100

EAST ELEVATION

1:100

SOUTH ELEVATION

1:100

WEST ELEVATION

1:100

ELEVATION E1

1:100

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHECKED	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE  
**WALL PANEL ELEVATION**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343



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DATE	APR '19	1903075-S302/B
ENGINEER	ASM	
CHECKED	ASM	





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PANEL 3.P6  
150  
PANEL 2.P6  
150  
PANEL 1.P7  
150  
PANEL G.P9  
150

PANEL 3.P5  
150  
PANEL 2.P5  
150  
PANEL 1.P6  
150  
PANEL G.P8  
150

PANEL 3.P4  
150  
PANEL 2.P4  
150  
PANEL 1.P5  
150  
PANEL G.P7  
150

PANEL 3.CP1  
150  
PANEL 2.CP1  
150  
PANEL 1.CP1  
150  
PANEL G.CP1  
150

PANEL 3.P3  
150  
PANEL 2.P3  
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PANEL 1.P4  
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PANEL G.P4  
150

PANEL 3.P2  
150  
PANEL 2.P2  
150  
PANEL 1.P3  
150  
PANEL G.P3  
150

PANEL 3.P1  
150  
PANEL 2.P1  
150  
PANEL 1.P1  
150  
PANEL G.P1  
150

TYP WALL PANEL DETAIL  
1:50

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19


No	REVISION	DRAWN	CHE'KD	DATE
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PROJECT  
**PROPOSED APARTMENTS  
AT: 11-13 WEST STREET,  
HINDMARSH, SA.  
FOR: KEY LARGO WATERS  
PTY LTD**

DRAWING TITLE  
**TYPICAL WALL PANEL DETAIL**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD



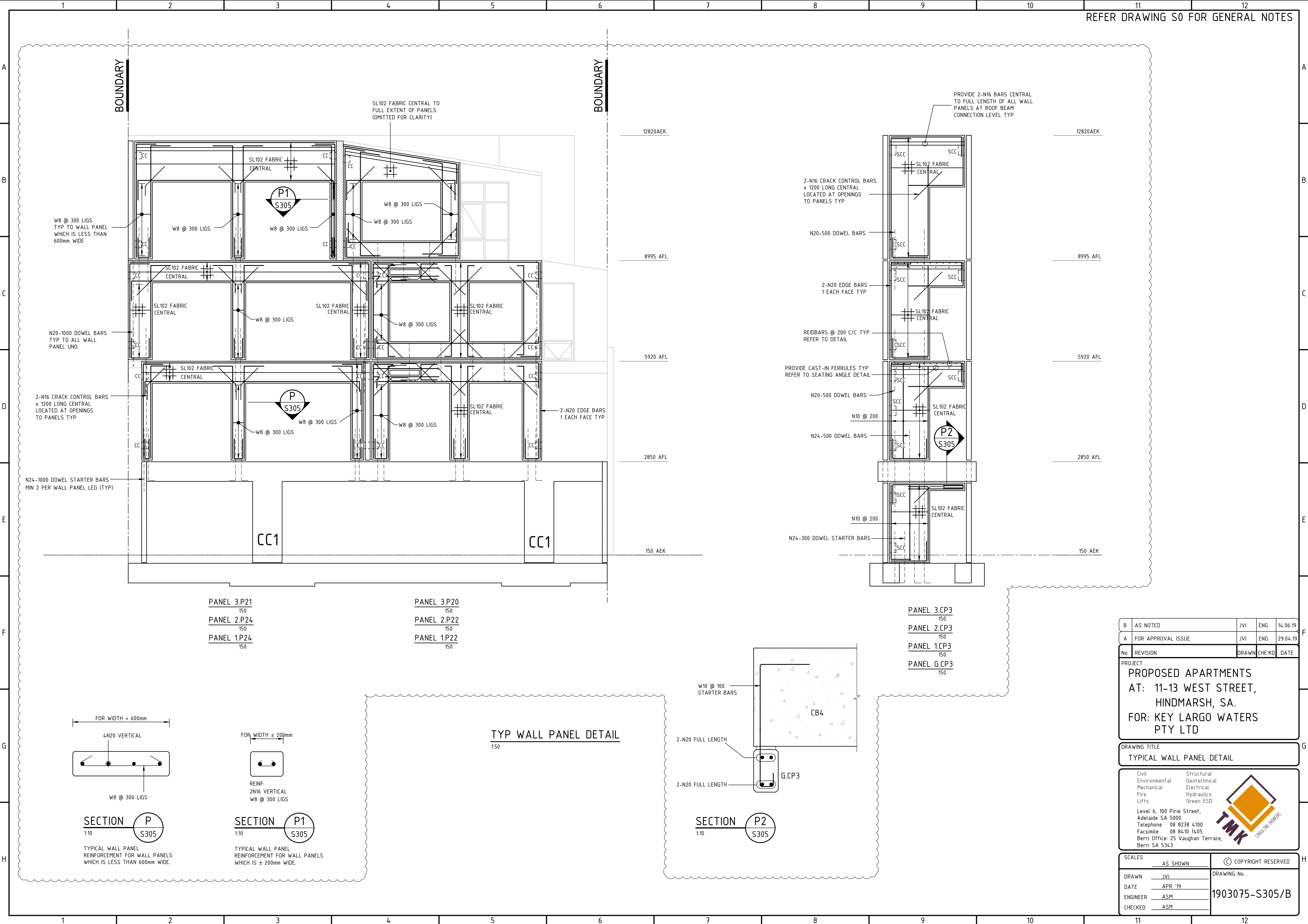
Level 6, 100 Pirie Street,  
Adelaide SA 5000  
Telephone 08 8238 4100  
Facsimile 08 8410 1405  
Berri Office: 25 Vaughan Terrace,  
Berri SA 5343

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DATE	APR '19	1903075-S303/B
ENGINEER	ASM	
CHECKED	ASM	



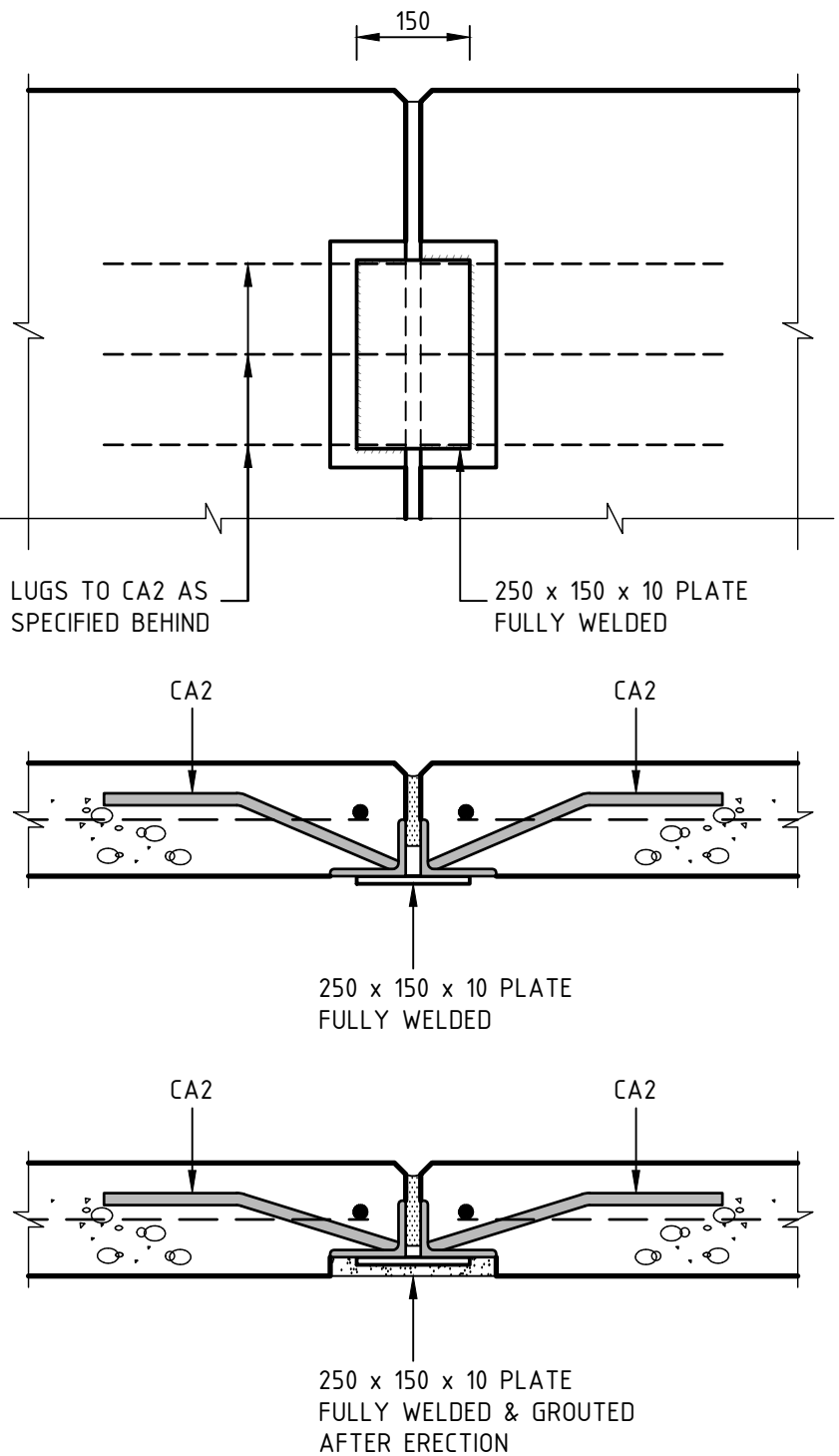
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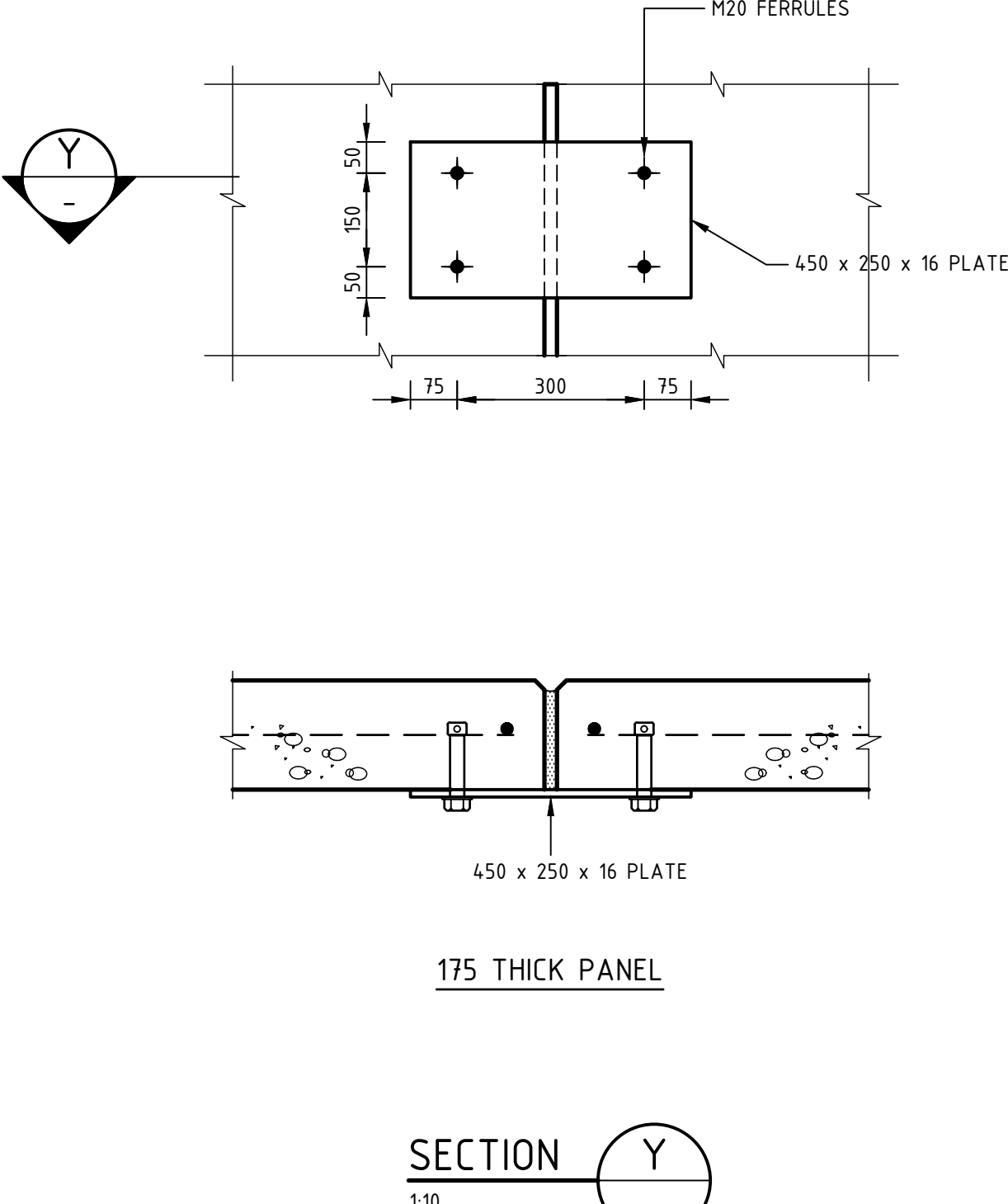




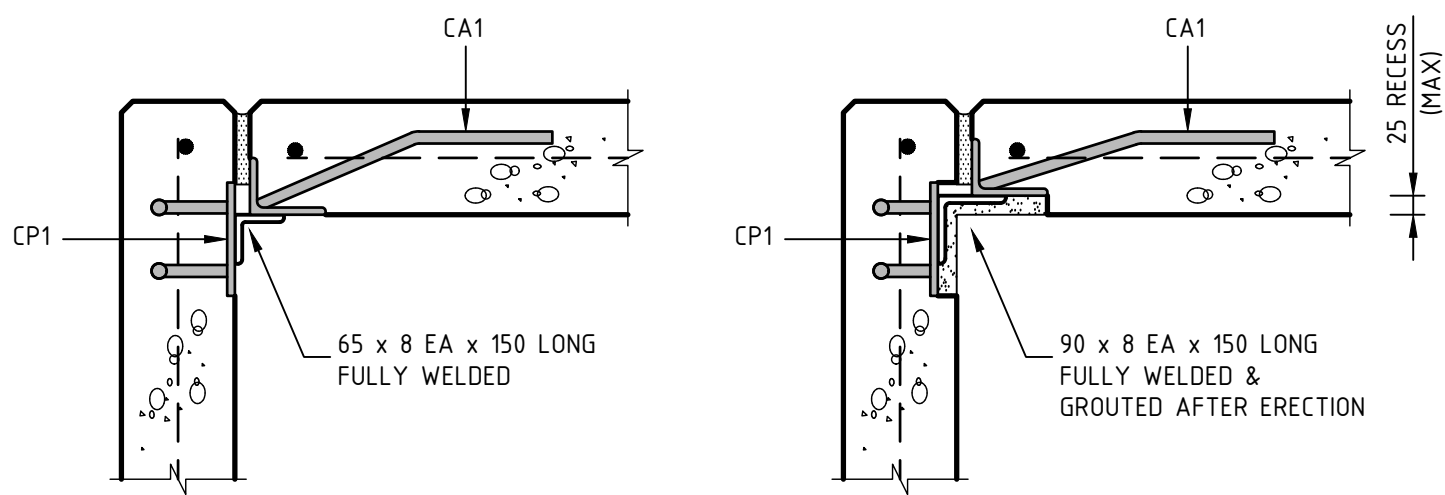
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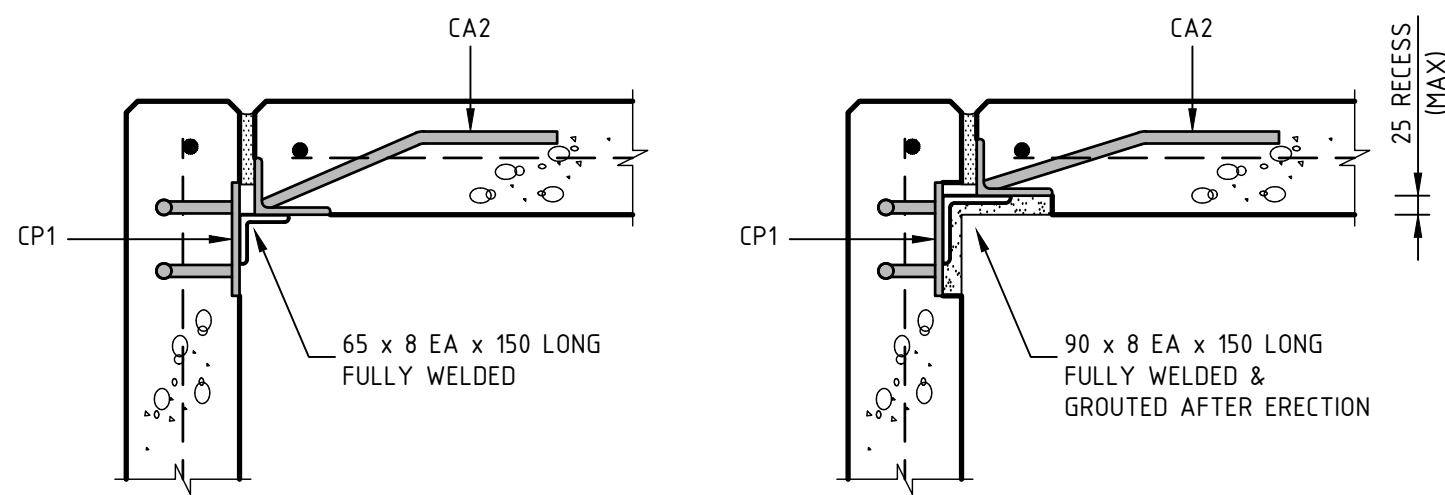
SUSPENDED PANEL CONNECTION DETAIL  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'SC' ON WALL PANEL PLAN / ELEVATIONS



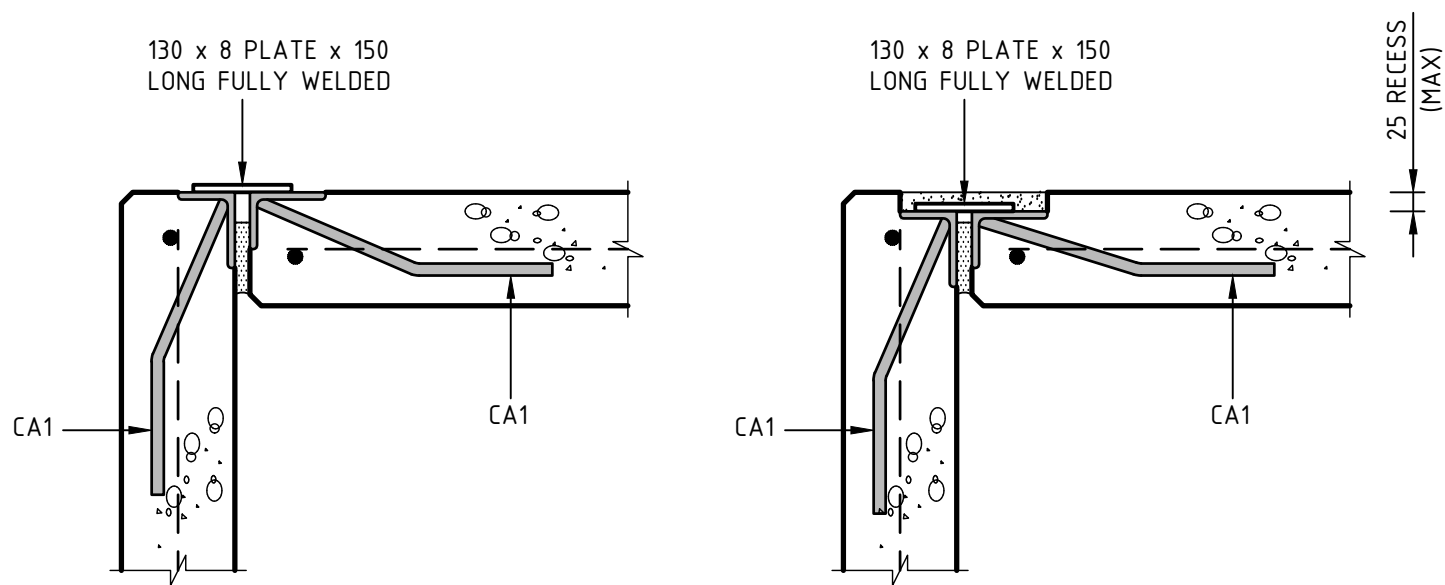
SUSPENDED PANEL CONNECTION DETAIL  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'SC' ON WALL PANEL PLAN / ELEVATIONS



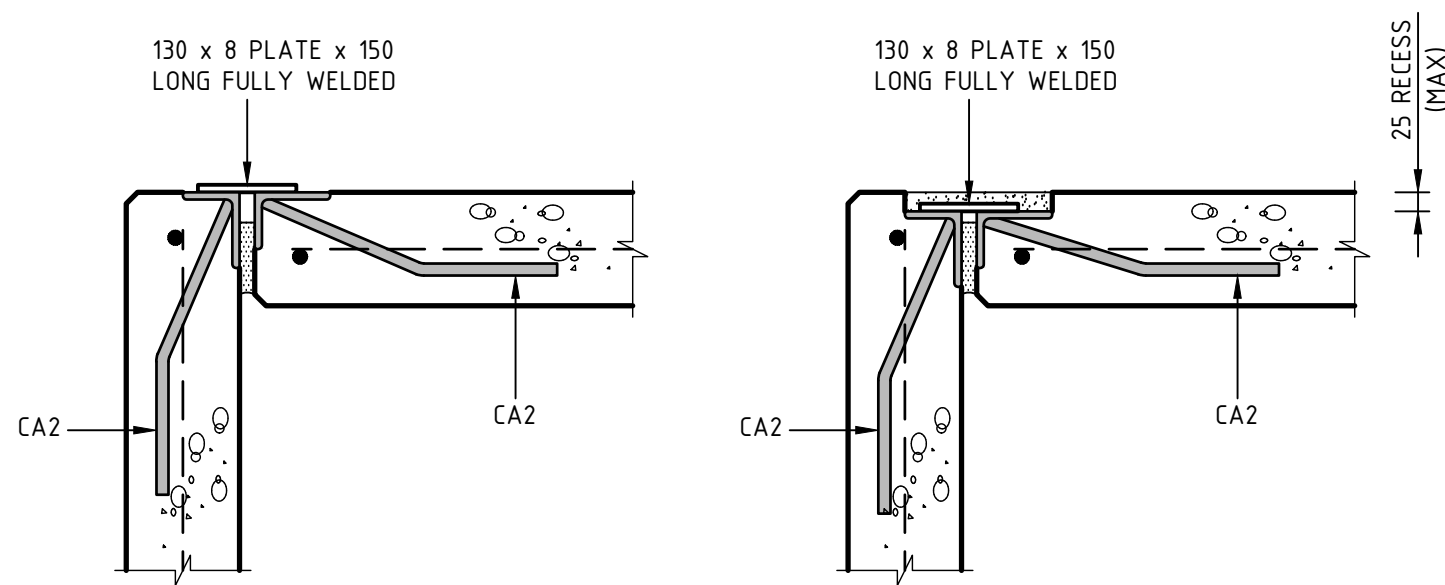
PANEL CORNER CONNECTION DETAILS  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'CC' ON WALL PANEL PLAN / ELEVATIONS



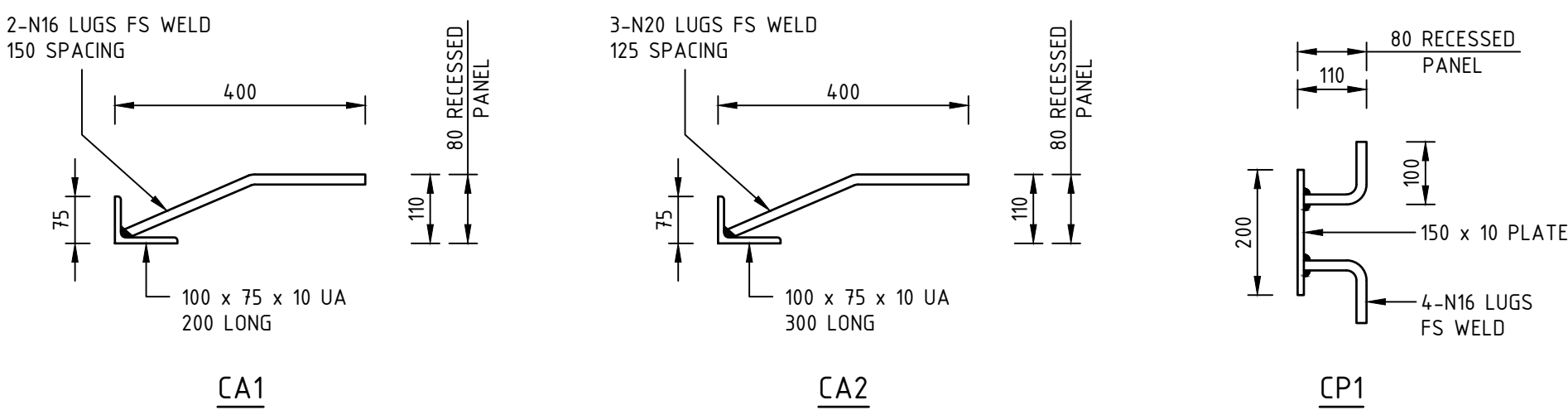
PANEL CORNER CONNECTION DETAILS  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'SCC' ON WALL PANEL PLAN / ELEVATIONS



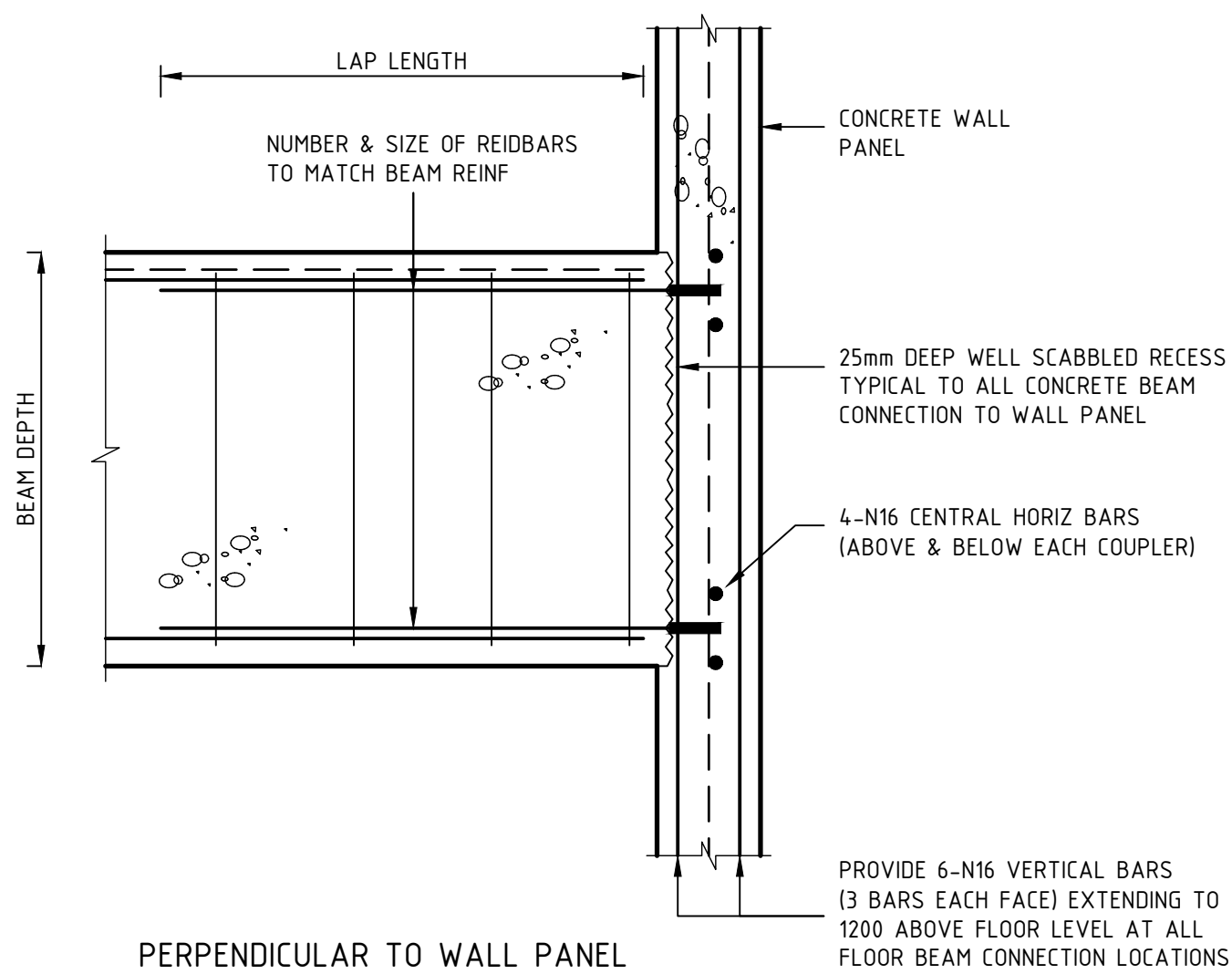
PANEL RE-ENTRANT CONNECTION DETAILS  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'CC' ON WALL PANEL PLAN / ELEVATIONS



PANEL RE-ENTRANT CONNECTION DETAILS  
1:10  
NOTE:  
PROVIDE AT APPROX 300 BELOW TOP OF PANELS (UNO)  
DENOTED 'SCC' ON WALL PANEL PLAN / ELEVATIONS



DETAILS OF CAST-IN ITEMS  
NTS  
NOTE:  
REFER TO SUSPENDED WALL PANEL SUPPORT DETAILS



TYPICAL CONCRETE BEAM TO WALL PANEL DETAIL  
NTS

B	AS NOTED	JVI	ENG	14.06.19
A	FOR APPROVAL ISSUE	JVI	ENG	29.04.19
No	REVISION	DRAWN	CHE'KD	DATE

PROJECT  
**PROPOSED APARTMENTS**  
**AT: 11-13 WEST STREET,**  
**HINDMARSH, SA.**  
**FOR: KEY LARGO WATERS**  
**PTY LTD**

DRAWING TITLE  
**WALL PANEL DETAIL**

Civil  
Environmental  
Mechanical  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

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DRAWN	JVI	DRAWING No.
DATE	APR '19	1903075-S306/B
ENGINEER	ASM	
CHECKED	ASM	