BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview.
S.A. 5144

STRUCTURAL DOCUMENTATION

CONCRETE NOTES

1. All workmanship and materials to be strictly in accordance with AS3600. Current edition with amendments, except where varied by contract documents.
2. All concrete components to be as follows unless noted on design drawings

COMPONENTS	SLUMP	F'C at 28 DAYS
Column pads and beams	80mm	20Mpa
Slab on ground	80mm	25Mpa
Floor slabs	80mm	32Mpa

3. All concrete used in floor slabs to contain a maximum 15% Flyash.
4. All floor slabs to be power float trowelled to a burnish finish throughout.
5. All footing beams to be central under steel columns unless noted otherwise.
6. Top of footings to be as per footing schedule.
7. All sawcuts to be carried out as early as practible within a maximum of 12 hours of pour.
8. All concrete shall be mechanically vibrated. Vibrations shall not be used to spread concrete.
9. Sizes of concrete elements do not include thickness of applied finish surfaces.
10. Welding of reinforcement will not be permitted unless shown in structural drawings contained within, or approved by an Engineer from this office.
11. All concrete to be cured in an approved manner for a minimum of 7 days.
12. All reinforcement shall be inspected by the Superintendant or Engineer prior to concrete pour.
13. All reinforcing fabric shall comply with AS1303 and AS1304 and shall be supplied in flat sheets.
14. Pipes or conduits shall not be placed within the concrete cover to reinforcement without the approval of the engineer.
15. Construction joints shall be properly formed, scabbled, cleaned, and used only where shown or specifically approved by the engineer.
16. Brickwork must not be built on concrete slabs or beams until underlaying supporting formwork, has been removed.
17. Surfaces receiving grout shall be left rough and free of laitance.
18. Minimum Cover to All Reinforcement unless noted otherwise on the drawings shall be in accordance with the reinforcement cover schedule.

REINFORCEMENT COVER SCHEDULE

ELEMENT	EXPOSURE CLASSIFICATION	COVER (mm)
PAD FOOTINGS	A2	65
STRIP FOOTINGS	A2	50
SLAB ON GROUND	A1	TOP = 30 SIDES & BOTTOM = 40
SUSPENDED SLAB (INTERNAL)	A1	25
SUSPENDED SLAB (EXTERNAL)	B1	35

STANDARD LAP & COG LENGTHS

BAR SIZE	MIN. LAP LENGTH (mm)	COG LENGTH (mm)
N12	600	170
N16	800	200
N20	1000	250
FABRIC	TWO CROSS WIRES + 25mm	

SUBGRADE NOTES

1. Strip the soil to a depth of approximately 150mm.
The exposed area shall then be proof rolled with a smooth wheeled self propelled roller weighing not less than 12 tonne to ensure that no local soft spots exist.
The top 150mm shall be compacted at least 100% standard relative compaction (refer AS1289 E1.1). If any areas are revealed, they shall be made good with clean granular fill compacted to a density matching that of the surrounding soil.
2. Imported fill material (if required) is to be 20mm quarry rubble or equiv. placed in 150mm maximum layers and compacted to 98% standards relative compaction, except the top 150mm layer which shall be as note 1 above.
3. All footings shall be founded into firm natural ground.
Footings on boundary to be founded 600mm below existing natural ground level of adjacent allotment.
4. Refer to arch details for all rebates
5. Footing trenches greater than 1 metre in depth are to be provided with 2 layers of damp proof membrane (DPM).
6. All concrete in contact with ground shall be protected via. 0.2mm branded damp proof membrane (DPM), unless noted otherwise
7. Refer to civil plans for typical details.

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CONCRETE PANEL NOTES

1. All work to be strictly in accordance with AS3600.
2. All panels to be 150mm thick U.N.O - N32 with 80mm slump.
3. Reinforcement - Provide SL92 mesh placed central U.N.O
- N16 perimeter bars, as detailed U.N.O
4. Use proprietary fixings where required. All lifting anchors, lugs etc, to be approved by Engineer prior to use.
5. All panels to be of a smooth trowelled finish with all steel angles. PFC sections etc. cast in place with flush line finish as required.
6. Concrete wall panels seated on concrete pad footings which may be stepped for allowance of slope of natural ground level.
7. Panel Manufacturer to supply shop drawings showing layout of panels and reinforcement before commencing work.
8. Joints contained in walls required to be fire rated under section C1 of BCA are to be sealed with approved fire rated sealant which complies with the FRL required under section C2.7 of the BCA

TYPICAL PANEL SPECIFICATION: 150mm THICK, N32 CONCRETE. OFF FORM CLASS 2 - TROWEL FINISH

- N16 perimeter bar, 600 lap and corner bar
- 45mm min. cover to edge and face
- N16 bar to sides of openings and 2N16 bars over
- 1000mm extension beyond openings and voids
- N16 corner crack bars 1000mm long
- SL92 Mesh centrally
- N20 dowels at 600 centres 600 long at base

Note: Reinforcement nominated in PC Panel Reinforcement Schedule on PC Panel Plan.

Drawing Register - Structure		
Number	Rev.	Sheet Name
Structural		
S00	7	STRUCTURAL NOTES
S00-1	7	STRUCTURAL 3D VIEW - SHEET 1
S00-2	7	STRUCTURAL 3D VIEW - SHEET 2
S01-1	8	FOOTING / SLAB PLAN
S01-3	4	FIRST FLOOR SLAB PLAN
S02-1	8	GROUND FLOOR STEEL PLAN
S02-2	8	FIRST FLOOR STEEL PLAN
S03-1	8	ROOF STEELWORK PLAN
S04-1	9	PANEL PLAN
S05-1	7	PANEL ELEVATION - SHEET 1
S05-2	7	PANEL ELEVATION - SHEET 2
S05-3	6	PANEL ELEVATION - SHEET 3
S05-4	6	PANEL ELEVATION - SHEET 4
S05-5	6	PANEL ELEVATION - SHEET 5
S05-6	6	PRECAST BLEACHERS / PLATS - SHEET 6
S05-7	6	PRECAST BLEACHERS / PLATS - SHEET 7
S06-1	8	STEELWORK ELEVATION-SHEET 1
S06-2	8	STEELWORK ELEVATION-SHEET 2
S06-5	8	STEELWORK SECTIONS-SHEET 1
S06-6	8	STEELWORK SECTIONS-SHEET 2
S06-7	8	STEELWORK SECTIONS-SHEET 3
S06-8	8	STEELWORK SECTIONS-SHEET 4
S06-9	8	STEELWORK SECTIONS-SHEET 5
S06-10	8	STEELWORK SECTIONS-SHEET 6
S06-11	8	STEELWORK SECTIONS-SHEET 7
S06-12	8	STEELWORK SECTIONS-SHEET 8
S06-13	6	STEELWORK SECTIONS-SHEET 9
S08-1	3	TYPICAL STEEL DETAILS - SHEET 1
S08-2	3	TYPICAL STEEL DETAILS - SHEET 2
S08-3	3	TYPICAL STEEL DETAILS - SHEET 3
S08-4	3	TYPICAL CONCRETE DETAILS
S08-5	3	TYPICAL PRECAST DETAILS

STEEL NOTES

1. Comply with current Australian Standards AS4100 as applicable, and current codes of practice.
2. Supply steelwork in accordance with the following grades:
- Hot Rolled Steel Sections AS3679, Grade 300
- RHS, SHS AS1163 - Grade 450 Duragal U.N.O.
- CHS AS1163 - Grade 350 U.N.O.
- All plates (caps, base, cleats, etc.) - Grade 300 U.N.O.
- Purlins and Girts AS1397 - Grade G450/500, Z350 Coating U.N.O.
3. Welding to be in accordance with AS1554. Minimum welding to be 6mm continuous fillet welds using approved (ie E48xx) electrodes. Weld Category SP for all structural connections. (Use only Category GP on minor welds such as purlins and girt cleats).
4. Bolting shall be in accordance with:
a) Commercial grade bolts - AS1111
b) High strength structural bolts - AS 1252 and tensioned to AS1511.
Connections not shown shall be detailed in accordance with A.I.S.C. bolting procedure (Standardised Structural Connections). Contact the Engineer for further details if required.
5. All steelwork surface preparation shall be prepared to AS1627 to a class finish which is compatible to the corrosion protection applied. Steelwork shall be suitably protected from corrosion by the application of suitable heavy duty coatings as recommended, designed and detailed by the manufacturer for the particular environment concerned as per AS2312. All applications shall be applied to the manufacturers specifications and details.
6. Purlin sections shall be roll formed from zinc coated high strength Zinc Hi-Ten steel strip conforming to AS 1397. Grade G450 or G500 as applicable with a minimum coating mass as specified by the Manufacturer to suit the expected environments. The manufacturer's recommendations are to take precedence.
7. Provide suitable bracing and propping to maintain stability during erection. Handle steelwork so as not to cause over-stressing in the members.
8. Steelwork shopdrawings shall be obtained prior to the commencement of fabrication and shall be submitted to the Engineer for appraisal. Approval will not cover layout dimensions.
9. The centrelines of all members in a particular connection are to intersect.
10. Any discrepancies between this plan, other related plans or specifications and actual conditions on site to be reported to this office.
11. Steelworker to provide all fixing brackets, holding down bolts, master templates and all bolts as required.
12. Steelworker to provide this office with shop drawings for approval prior to commencing fabrication. Approval granted by this office shall mean section sizes and general arrangement is satisfactory. It shall not mean verification of dimensions.
13. All purlins and girts shall be galvanised and to be fixed by manufacturers recommended details.
14. All high strength (HS) bolts to be 8.8/s in accordance with AS 1252. high strength bolted joints should be in accordance with AS4100. the specified bolt tension shall be obtained by use of the "part turn" method of tightening.
15. All welds to be E48xx electrodes, category SP welds.
16. All portal frame connections (eave, ridge & splice) to have full strength butt welds to flanges and 6mm continuous fillet welds to webs. All portal endplates to be of grade 300 U.N.O.
17. All steelwork to be blasted to Class 2 1/2 and given one coat of zinc inorganic silicate. Min coat thickness of 75 microns. (Duragal req. no further treatment).
18. All connection plates to be 10mm U.N.O.
19. All drawing to be read in conjunction with:
- Architectural Plans
- Civil Plans
20. All roof bracing to be tied to underside of roof purlins to prevent excessive sagging. All roof and wall bracing connections to be 10 MSPL with 2M20 8.8/s bolts each end. Typ. U.N.O.
21. All exposed external steelwork to be hot dipped galvanised. (U.N.O.)
22. All steelwork to be straight and true before and after erection.

Issue	Amendments	Date
7	Issued for Building Rules Consent	30/06/22
6	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
5	Updated Plans - Issued for Review	06/05/22
4	Updated Plans - Work in progress.	30/03/22
3	Updated Plans issued for review.	24/03/22
2	Updated Plans issued for review.	18/03/22
1	Updated Plans issued for review.	25/02/22

Project
14 Boucaut Avenue, Blakeview.
S.A. 5144

Drawing
STRUCTURAL NOTES

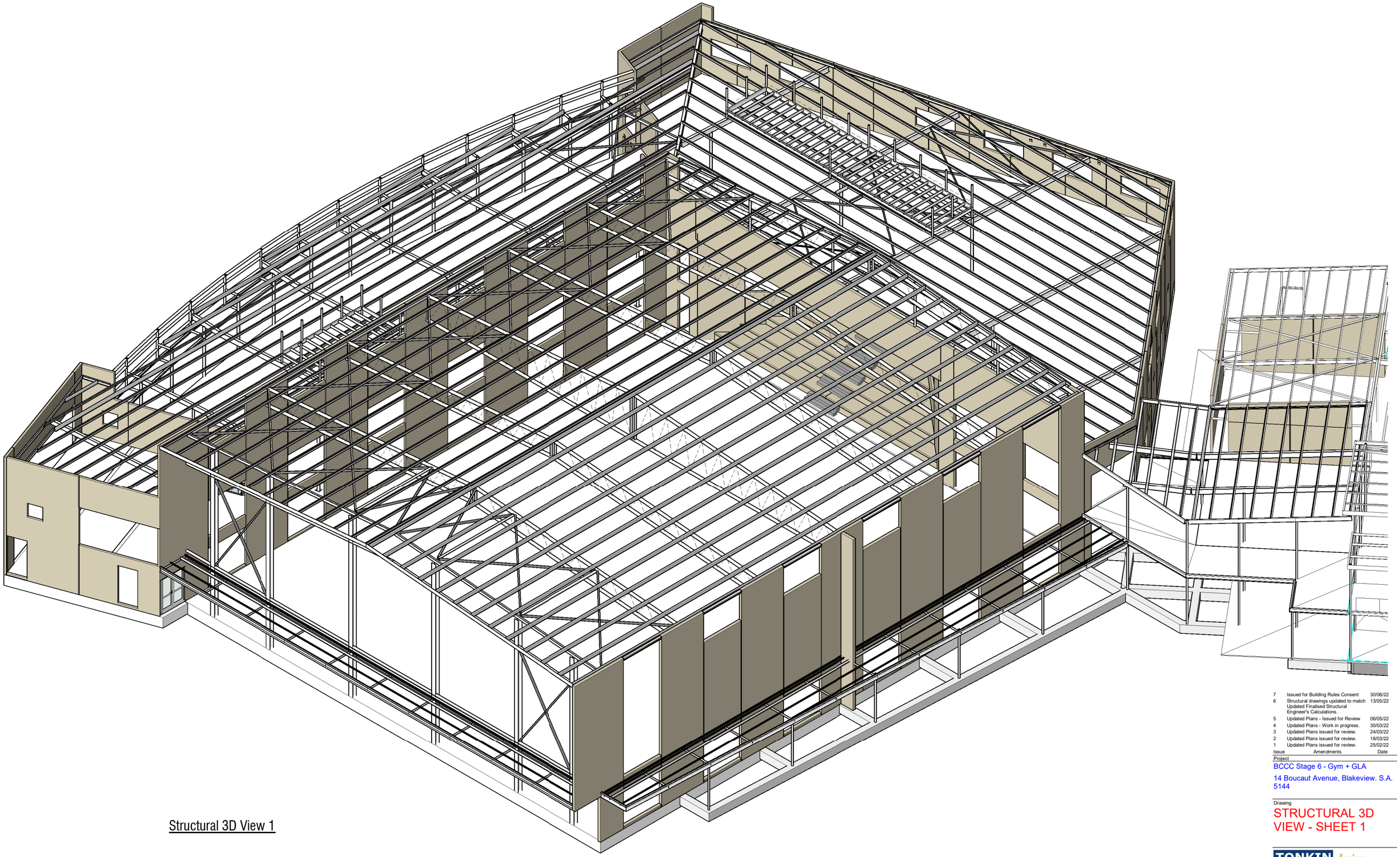
TONKIN design
SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22
Drawn : -
Scale : 1 : 100 (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S00.7

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



Structural 3D View 1

Issue	Amendments	Date
7	Issued for Building Rules Consent	30/06/22
6	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
5	Updated Plans - Issued for Review	06/05/22
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3	Updated Plans issued for review.	24/03/22
2	Updated Plans issued for review.	18/03/22
1	Updated Plans issued for review.	25/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STRUCTURAL 3D VIEW - SHEET 1

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22

Drawn : -

Scale : (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S00-1.7

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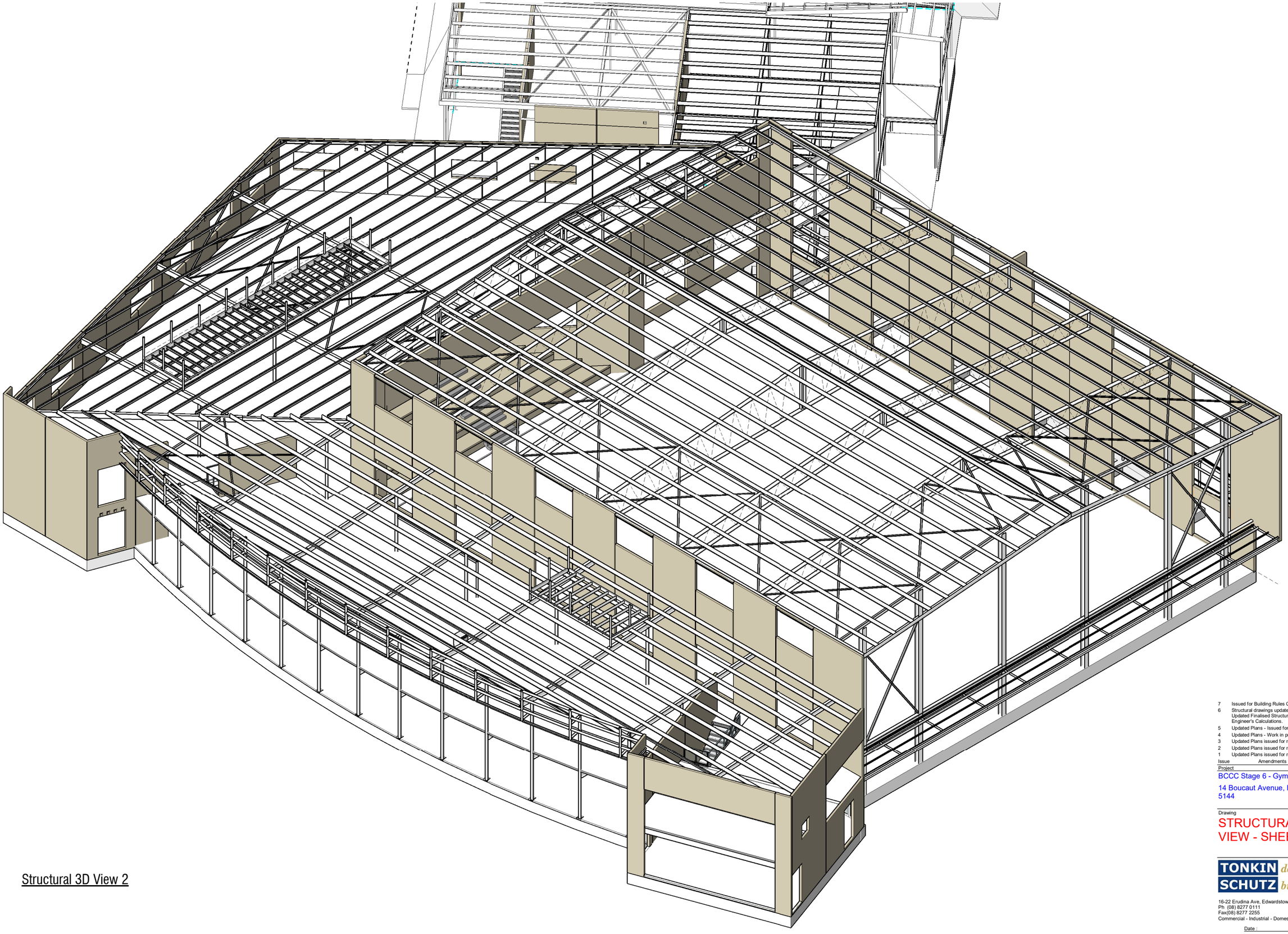

Structural 3D View 2

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Issue	Amendments	Date
7	Issued for Building Rules Consent	30/06/22
6	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
5	Updated Plans - Issued for Review	06/05/22
4	Updated Plans - Work in progress.	30/03/22
3	Updated Plans issued for review.	24/03/22
2	Updated Plans issued for review.	18/03/22
1	Updated Plans issued for review.	25/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STRUCTURAL 3D VIEW - SHEET 2

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
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Commercial - Industrial - Domestc

Date : 31/01/22

Drawn : -

Scale : (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S00-2.7

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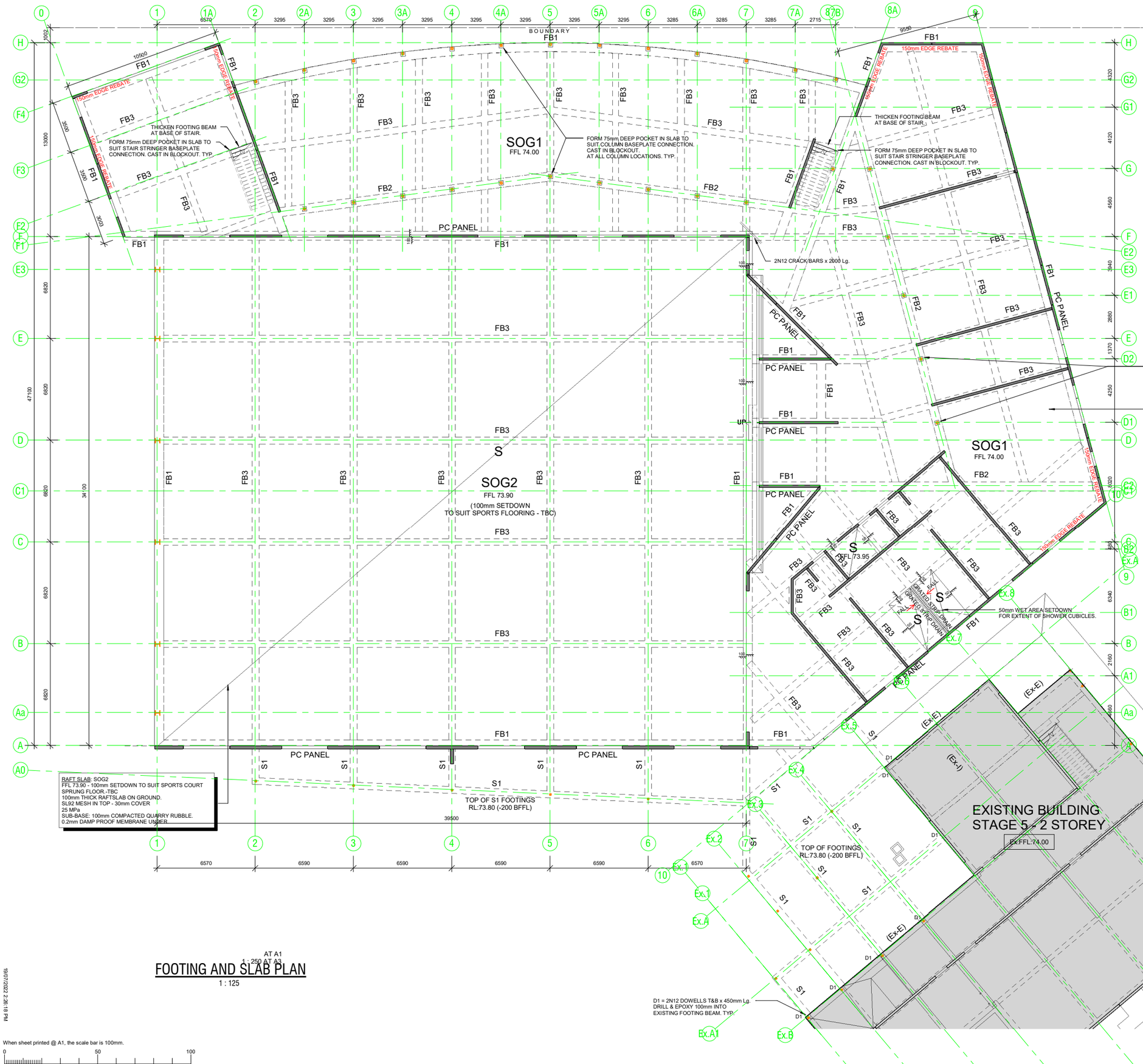

AT A1
1 : 250 AT A3

FOOTING AND SLAB PLAN

1 : 125

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0-FFL Slab Details

Mark	Thickness	Strength	Reinforcement	Area	Comments
SOG1	100mm Raft Slab	25MPa	SL92 Mesh in Top. - 30mm Cover.	1326 m²	Main Raftslab on ground.
SOG1	100mm Raft Slab	25MPa	SL92 Mesh in Top. - 30mm Cover.	21 m²	Wet Area Setdown 50mm
SOG2	100mm Raft Slab	25MPa	SL92 Mesh in Top. - 30mm Cover.	1358 m²	Gym Slab Setdown 100mm to suit sports floor - TBC

Footing Schedule

MARK:	WIDTH:	DEPTH:	REINFORCEMENT			Comments
			TOP	BOTTOM	LIGATURES	
(Ex-E)	350	800	4N16	4N16	W8-800	EXISTING STAGE 5 FOOTING
(Ex-I)	300	800	4N16	4N16	W8-800	EXISTING STAGE 5 FOOTING
FB1	600	750	3N20	3N20	W8-600 CTS	FOOTING BEAM.
FB2	600	750	4N20	4N20	W8-600 CTS	FOOTING BEAM.
FB3	450	600	3N16	3N16	W6-800 CTS	FOOTING BEAM.
S1	450	600	3N16	3N16	W6-800 CTS	STRIP FOOTING. TOP: -200 BFFL

FOOTING PADS
Unless in table above

Pads founded 150 in firm natural ground

FOOTING DETAILS
Unless in table above

Direction of span of Bondek

For a site that is classified as 'H-D' and flexible sewer and stormwater connections are required.
Refer to structural calculations

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project
BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing
FOOTING / SLAB PLAN

TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S01-1.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

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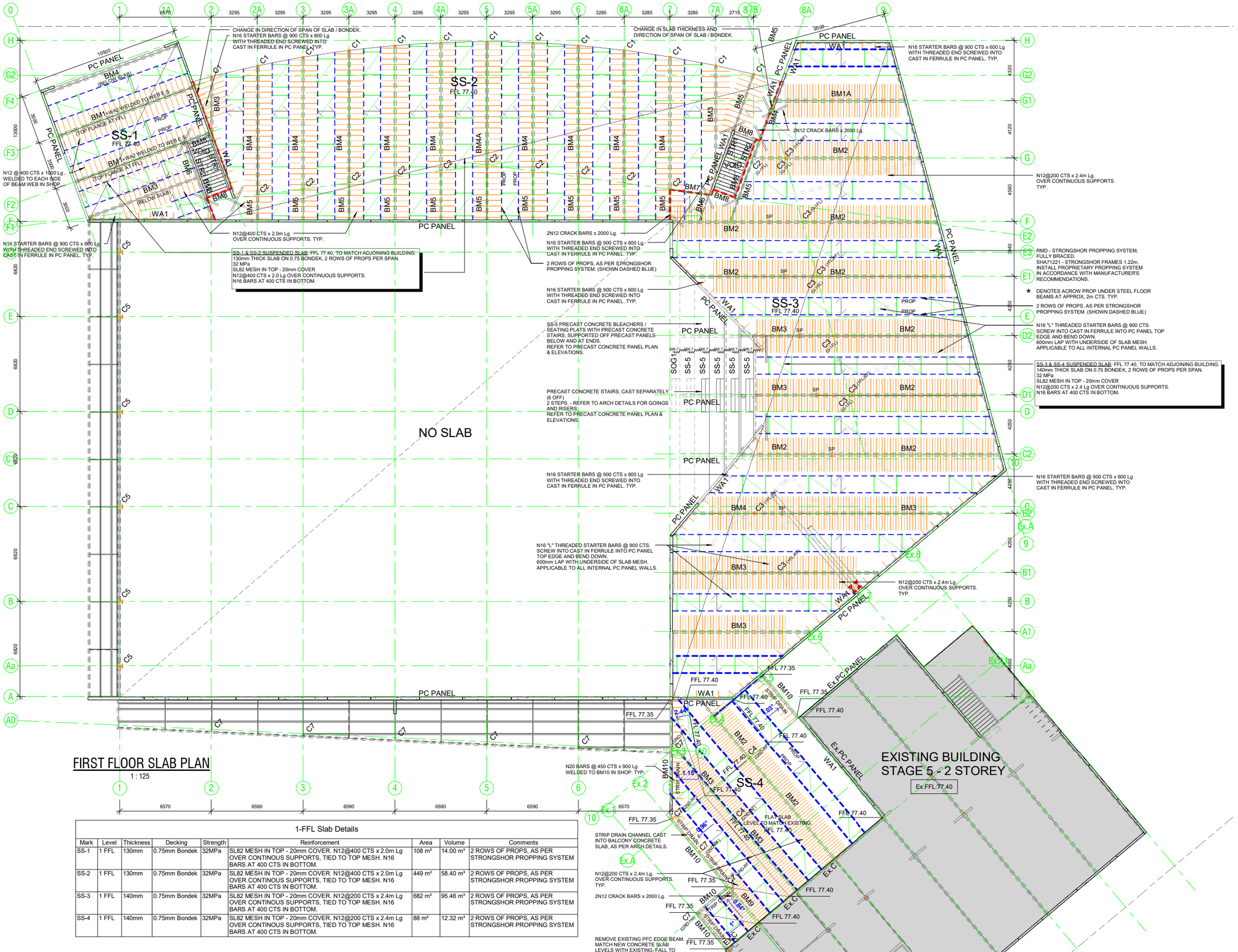

FIRST FLOOR SLAB PLAN

1 : 125

1-FFL Slab Details

Mark	Level	Thickness	Decking	Strength	Reinforcement	Area	Volume	Comments
SS-1	1 FFL	130mm	0.75mm Bondek	32MPa	SL82 MESH IN TOP - 20mm COVER. N12@400 CTS x 2.0m Lg OVER CONTINOUS SUPPORTS, TIED TO TOP MESH. N16 BARS AT 400 CTS IN BOTTOM.	108 m²	14.00 m³	2 ROWS OF PROPS, AS PER STRONGSHOR PROPPING SYSTEM
SS-2	1 FFL	130mm	0.75mm Bondek	32MPa	SL82 MESH IN TOP - 20mm COVER. N12@400 CTS x 2.0m Lg OVER CONTINOUS SUPPORTS, TIED TO TOP MESH. N16 BARS AT 400 CTS IN BOTTOM.	449 m²	58.40 m³	2 ROWS OF PROPS, AS PER STRONGSHOR PROPPING SYSTEM
SS-3	1 FFL	140mm	0.75mm Bondek	32MPa	SL82 MESH IN TOP - 20mm COVER. N12@200 CTS x 2.4m Lg OVER CONTINOUS SUPPORTS, TIED TO TOP MESH. N16 BARS AT 400 CTS IN BOTTOM.	682 m²	95.46 m³	2 ROWS OF PROPS, AS PER STRONGSHOR PROPPING SYSTEM
SS-4	1 FFL	140mm	0.75mm Bondek	32MPa	SL82 MESH IN TOP - 20mm COVER. N12@200 CTS x 2.4m Lg OVER CONTINOUS SUPPORTS, TIED TO TOP MESH. N16 BARS AT 400 CTS IN BOTTOM.	88 m²	12.32 m³	2 ROWS OF PROPS, AS PER STRONGSHOR PROPPING SYSTEM

FOOTING PADS
Unless in table above
Pads founded 150 in firm natural ground
FOOTING DETAILS
Unless in table above
Direction of span of Bondek
For a site that is classified as 'H-D' and flexible sewer and stormwater connections are required. Refer to structural calculations

Issue	Amendments	Date
4	Issued for Building Rules Consent	30/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans - Work in progress.	30/03/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

FIRST FLOOR SLAB PLAN

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 28/03/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S01-3.4

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

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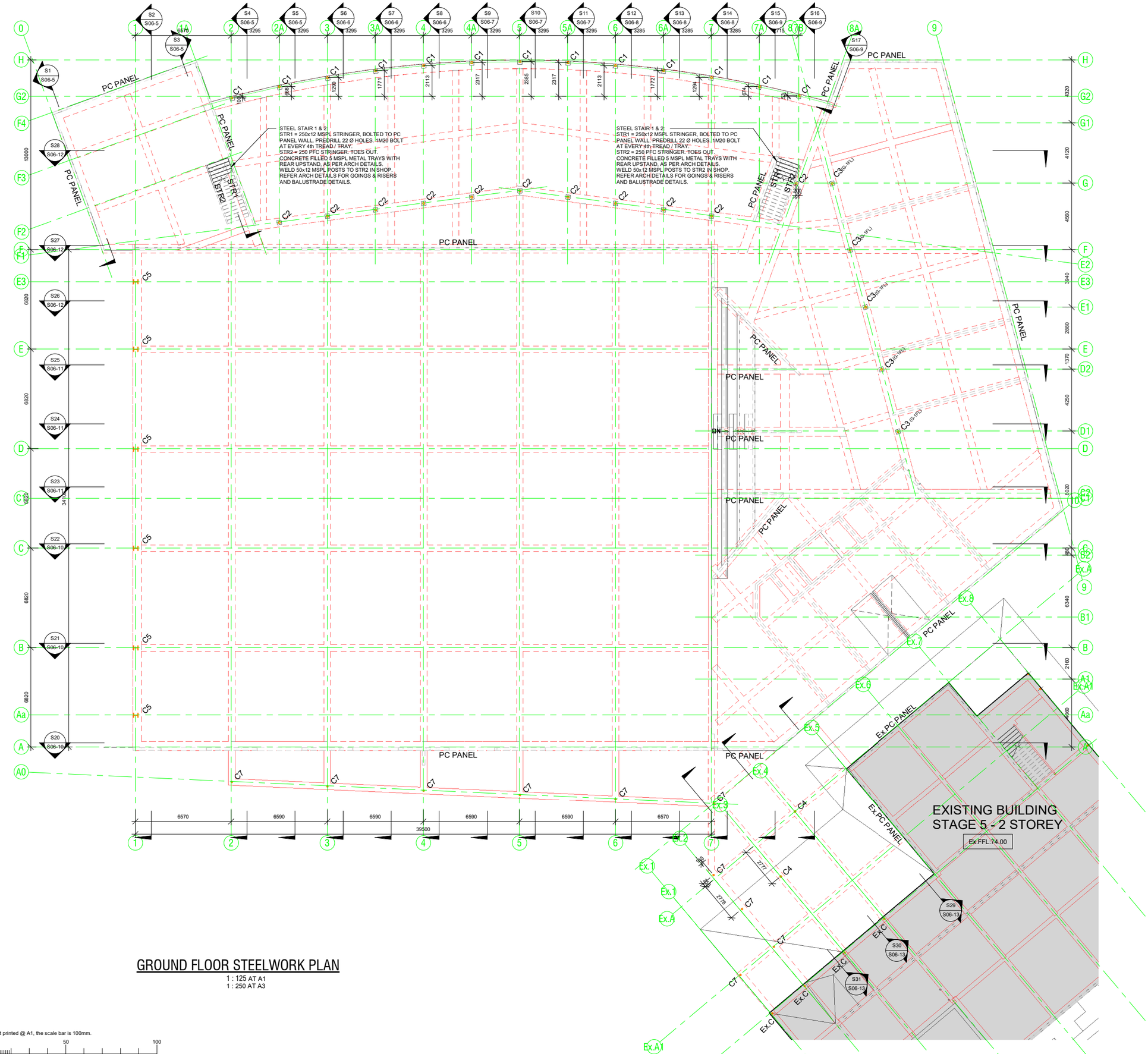

GROUND FLOOR STEELWORK PLAN

1 : 125 AT A1
1 : 250 AT A3

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Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE. AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

NOTE:

Fire Resistance levels to steelwork in accordance with Specification C1.1
-120/120/120 FRL to the load-bearing columns and walls to the lower story
-30/30/30 FRL to the floor beams either Vermiculite or 1x13 Fyrchek
:Floor slabs as Engineered
:Load Bearing Columns - 3x13 Fyrchek

Project
BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing
GROUND FLOOR STEEL PLAN

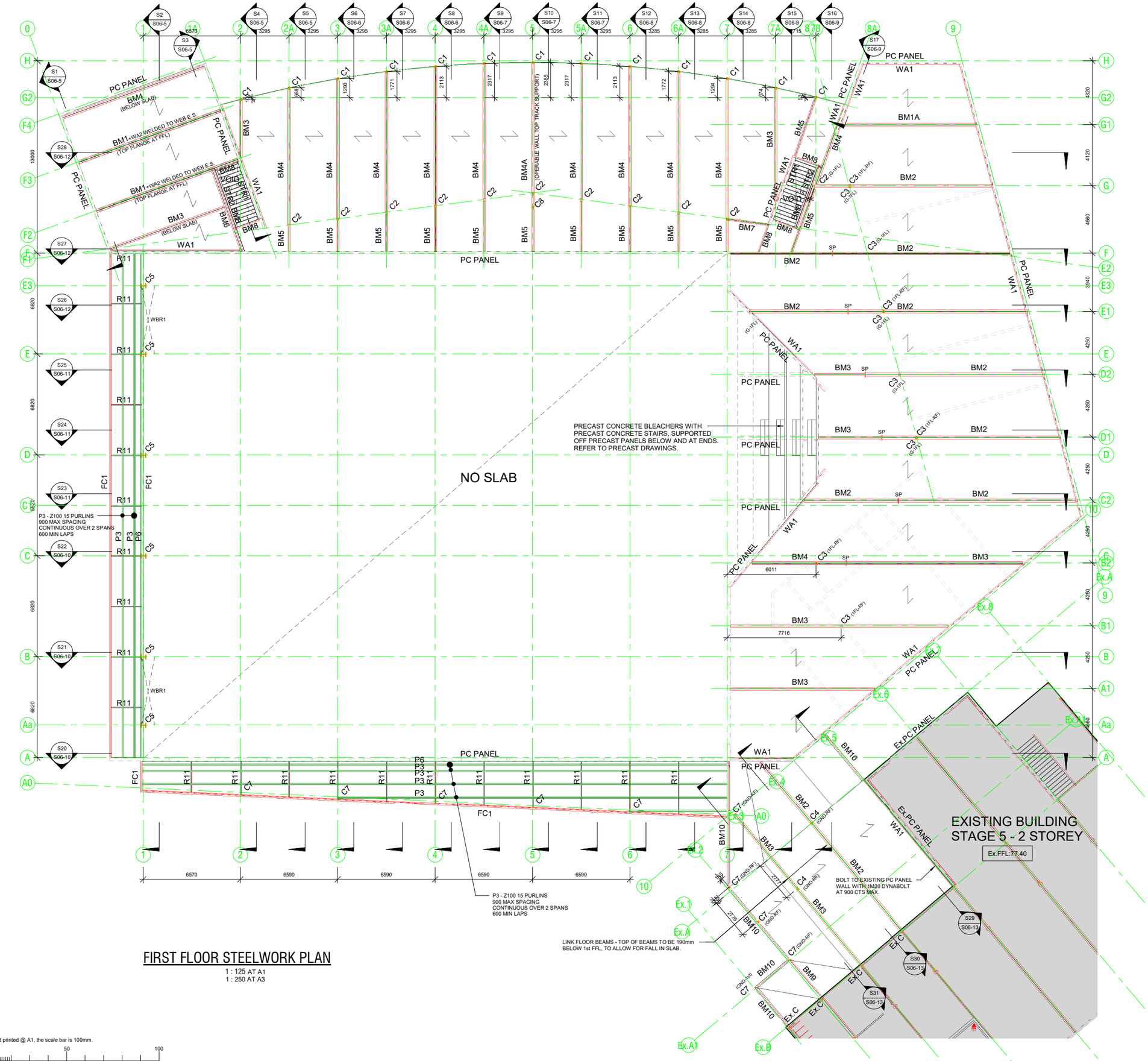
TONKIN SCHUTZ design build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S02-1.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



FIRST FLOOR STEELWORK PLAN

1 : 125 AT A1
1 : 250 AT A3

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

19/07/2022 2:26:3 PM

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

FIRST FLOOR STEEL PLAN

NOTE:

Fire Resistance levels to steelwork in accordance with Specification C1.1
-120/120/120 FRL to the load-bearing columns and walls to the lower story
-30/30/30 FRL to the floor beams either Vermiculite or 1x13 Fyrchek
:Floor slabs as Engineered
:Load Bearing Columns - 3x13 Fyrchek

NOTE:
CO-ORDINATE WITH MECH SERVICES DRAWINGS TO CONFIRM FLOOR BEAM PENETRATION LOCATIONS FOR A/C DUCTWORK.
STRUCTURAL ENGINEER TO CONFIRM MAX PENO SIZE POSSIBLE TO SUIT 400mm DIA. FLEX DUCT.

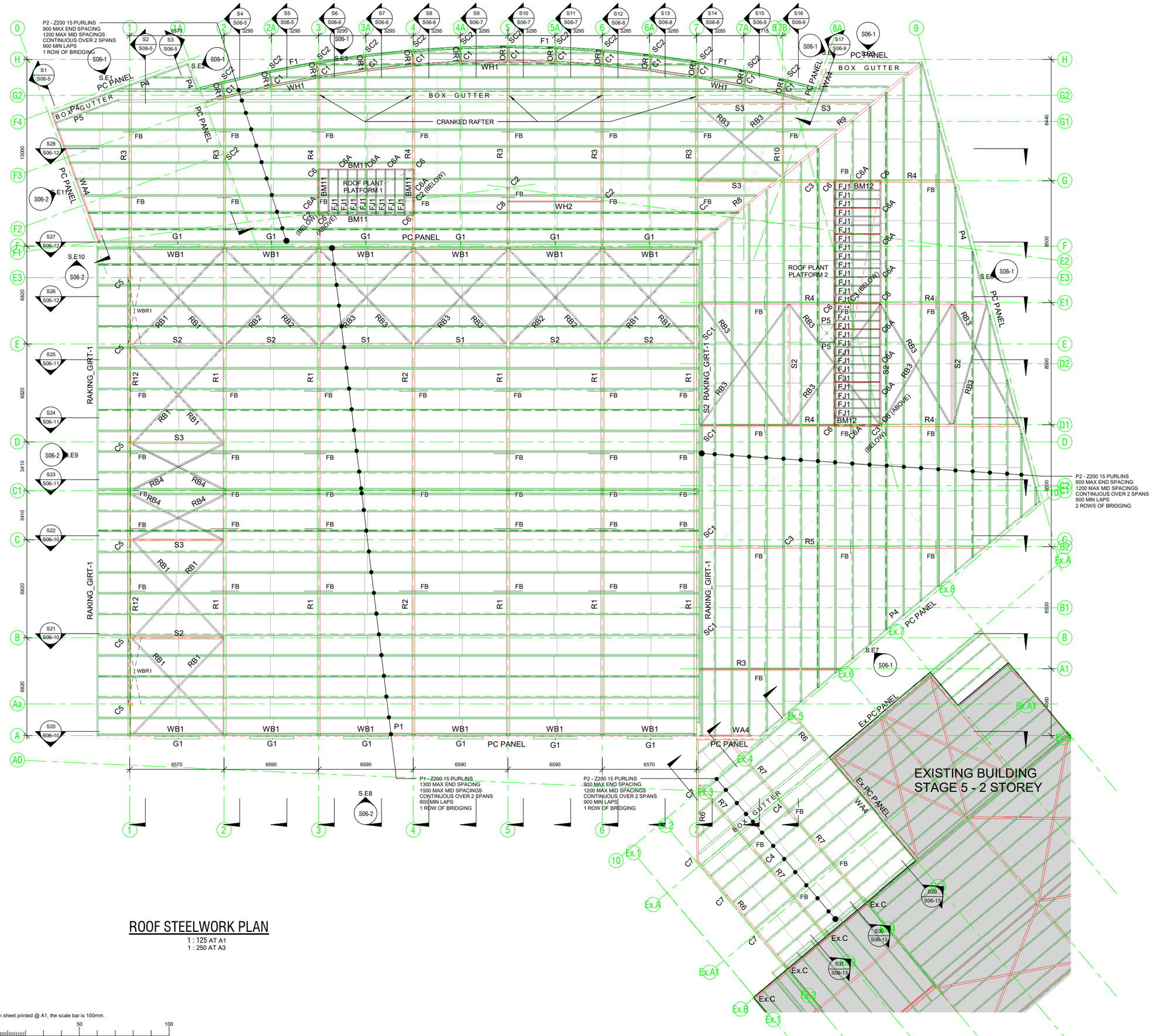
TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S02-2.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



ROOF STEELWORK PLAN

1 : 125 AT A1
1 : 250 AT A3

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

18/07/2022 2:38:31 PM

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM, FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x60x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ, SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x60x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

ROOF STEELWORK PLAN

NOTE:

Fire Resistance levels to steelwork in accordance with Specification C1.1
-120/120/120 FRL to the load-bearing columns and walls to the lower story
-30/30/30 FRL to the floor beams either Vermiculite or 1x13 Fyrchek
:Floor slabs as Engineered
:Load Bearing Columns - 3x13 Fyrchek

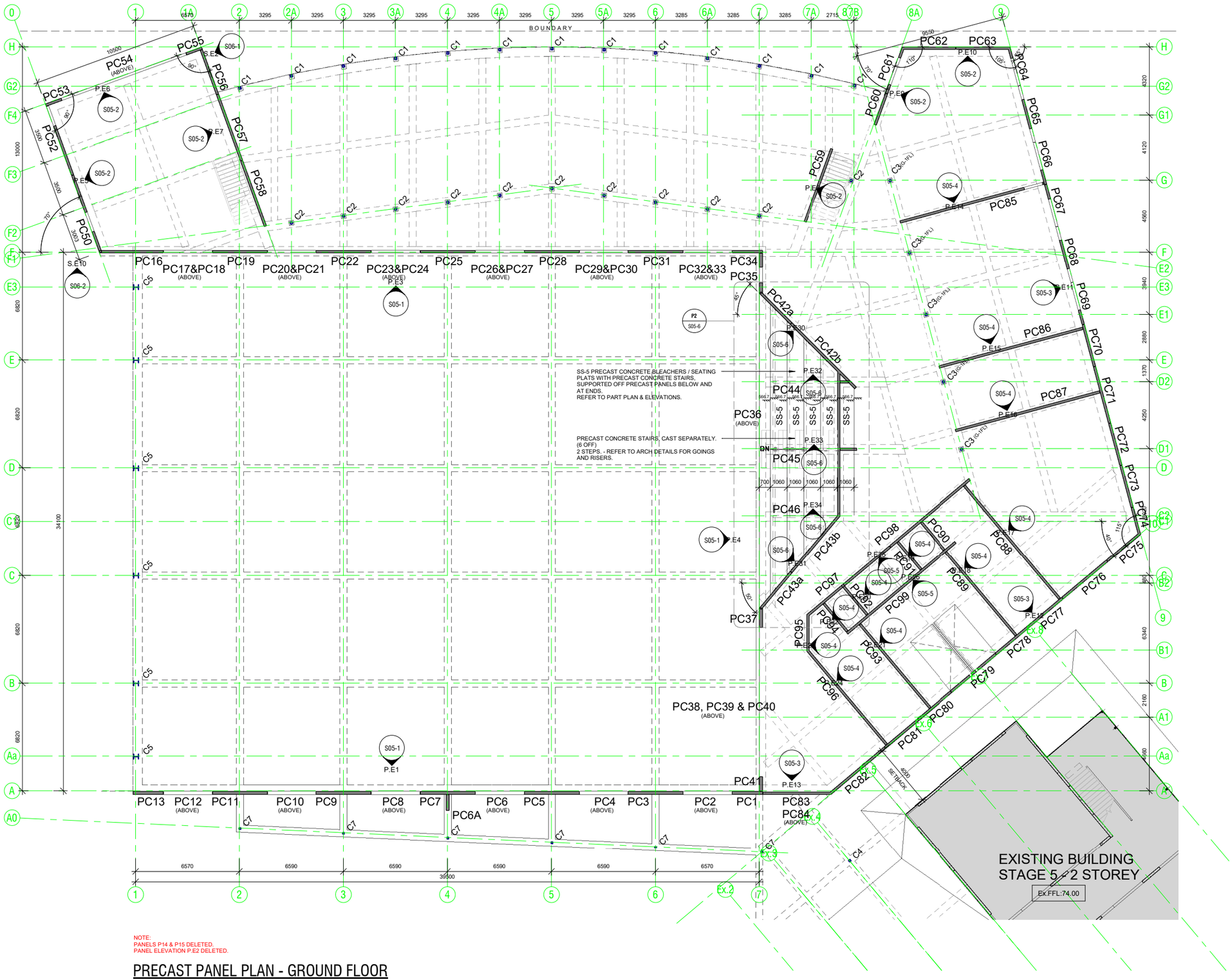
TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 31/01/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S03-1.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



NOTE:
PANELS P14 & P15 DELETED.
PANEL ELEVATION P.E2 DELETED.

PRECAST PANEL PLAN - GROUND FLOOR

1 : 125 AT A1
1 : 250 AT A3

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

NOTE:
PANELS P14 & P15 DELETED.
PANEL ELEVATION P.E2 DELETED.

Issue	Amendments	Date
9	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
8	Issued for Building Rules Consent	30/06/22
7	Panels PC14 & PC15 deleted.	27/06/22
6	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
5	Updated Plans - Issued for Review	06/05/22
4	Updated Plans	13/04/22
3	Updated Plans - Work in progress.	30/03/22
2	Updated Plans issued for review.	24/03/22
1	Updated Plans issued for review.	18/03/22

Project
BCCC Stage 6 - Gym + GLA
14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing
PANEL PLAN

TONKIN SCHUTZ design build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S04-1.9

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

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When sheet printed @ A1, the scale bar is 100mm.
0 50 100

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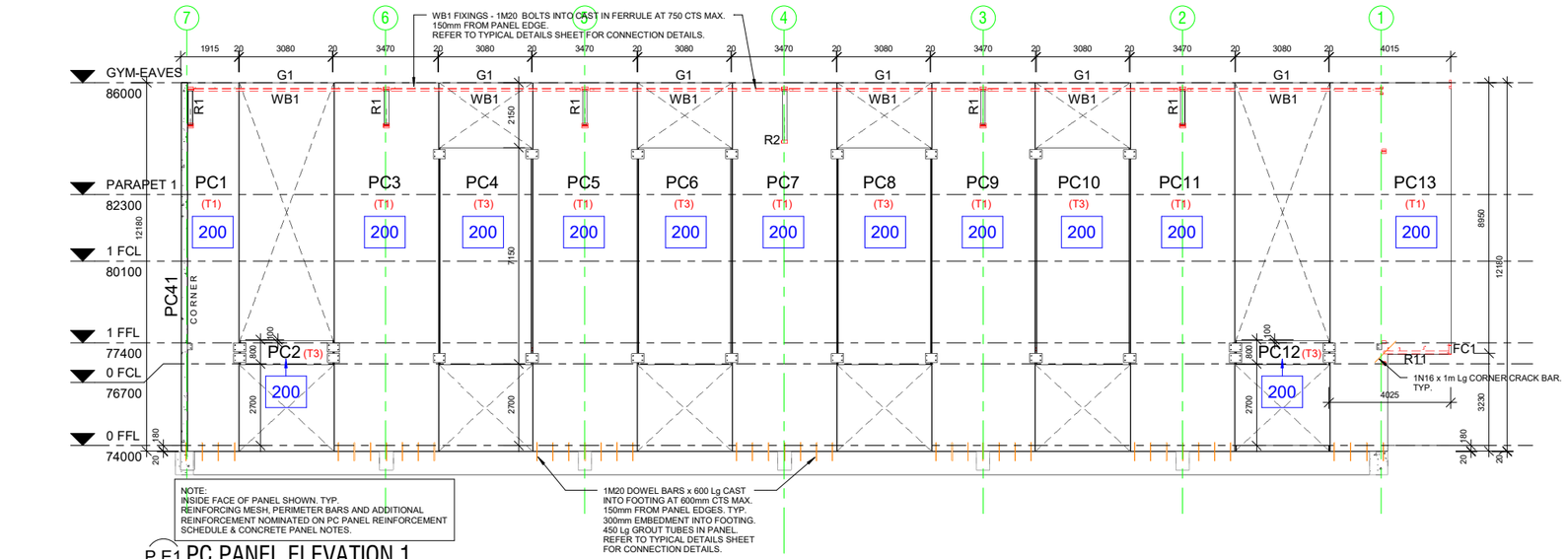
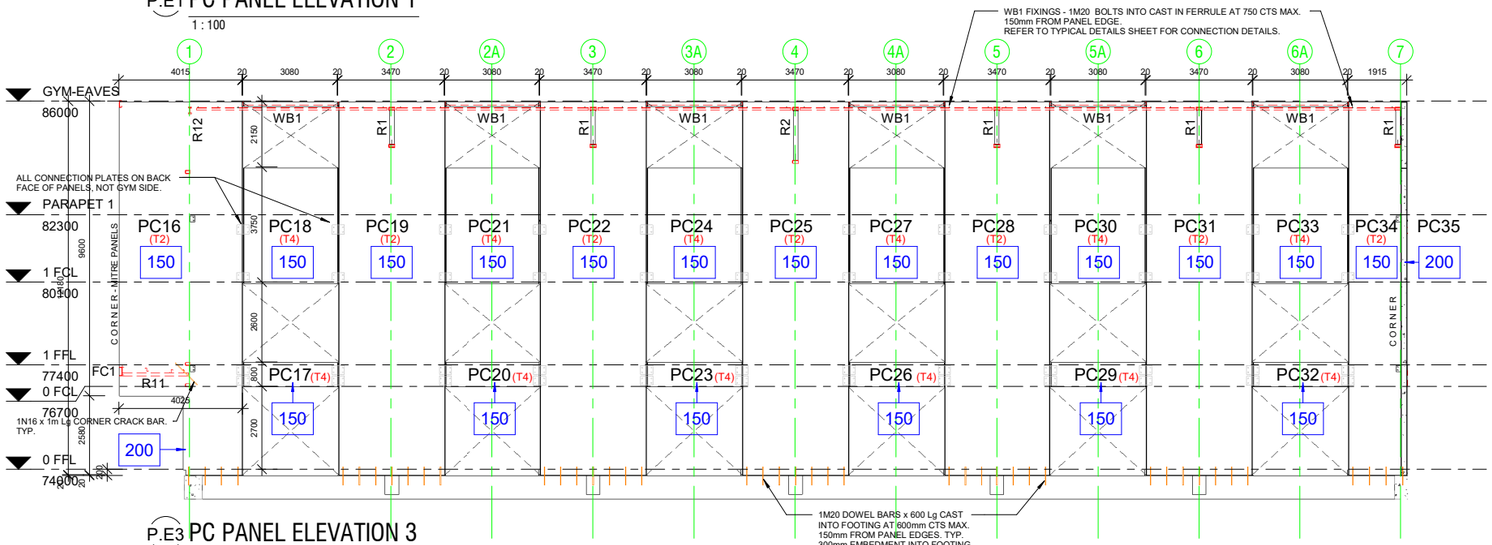


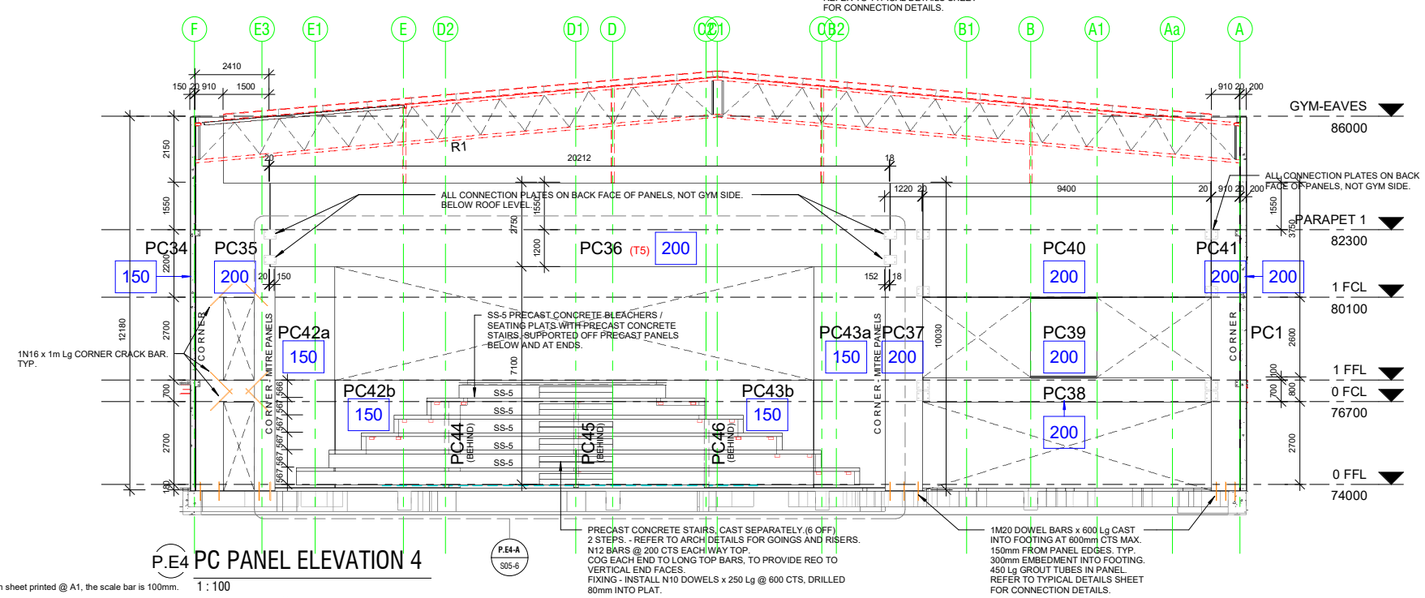
P.E1 PC PANEL ELEVATION 1

1 : 100



P.E3 PC PANEL ELEVATION 3

1 : 100



P.E4 PC PANEL ELEVATION 4

1 : 100

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

19/07/2022 2:36:38 PM

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,PC104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

NOTE:
PANELS P14 & P15 DELETED.
PANEL ELEVATION P.E2 DELETED.

Issue	Amendments	Date
7	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
6	Issued for Building Rules Consent	30/06/22
5	Panels PC14 & PC15 deleted.	27/06/22
4	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
3	Updated Plans - Issued for Review	06/05/22
2	Updated Plans	13/04/22
1	Updated Plans - Work in progress.	30/03/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

PANEL ELEVATION - SHEET 1

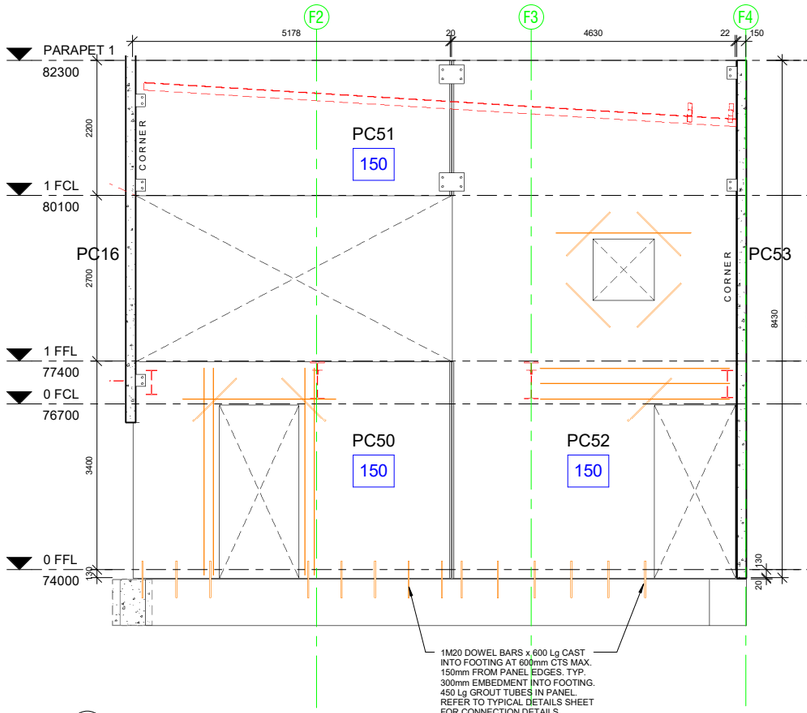
TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22
Drawn : -
Scale : 1 : 100 (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S05-1.7

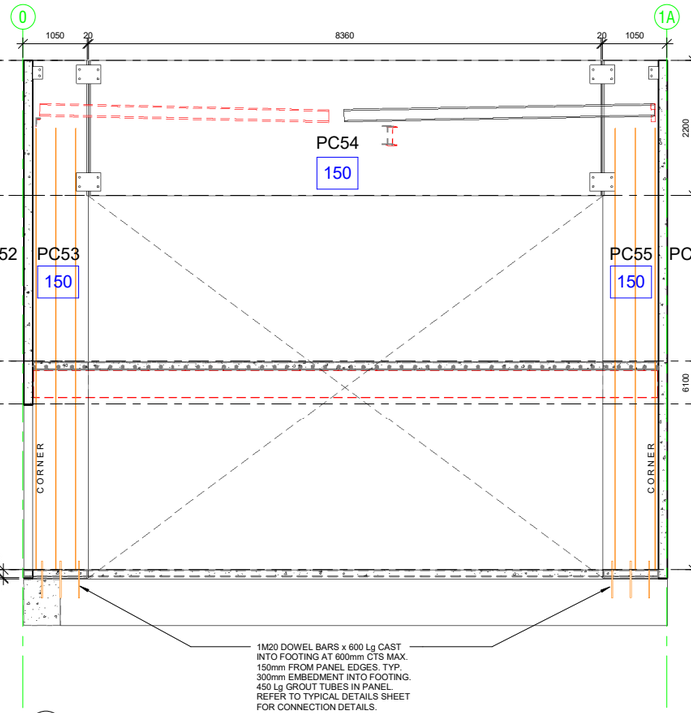
Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



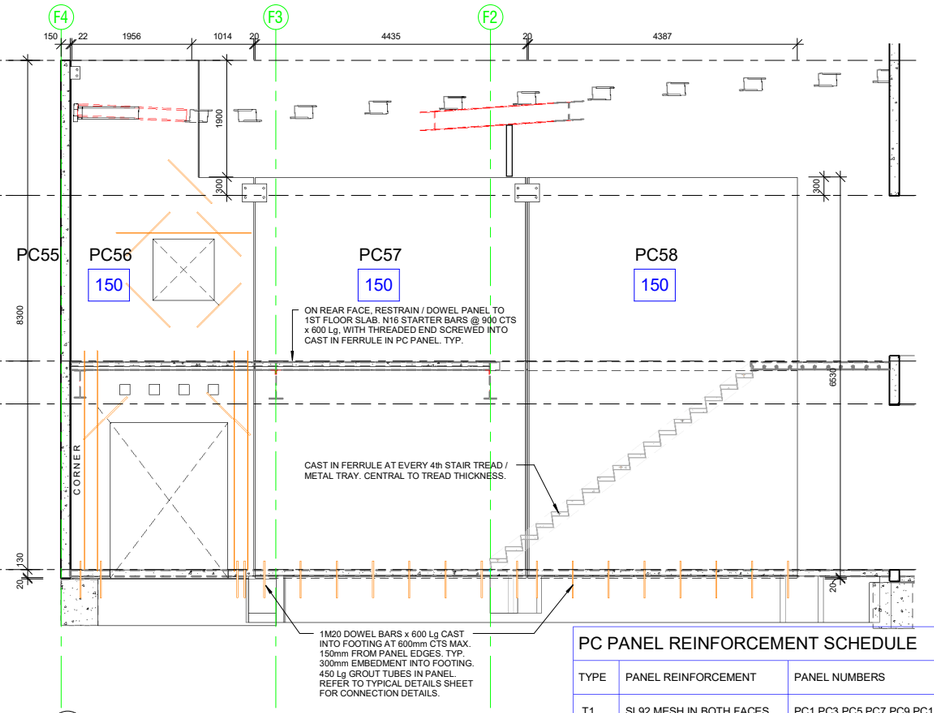
P.E5 PC PANEL ELEVATION 5

1 : 50



P.E6 PC PANEL ELEVATION 6

1 : 50

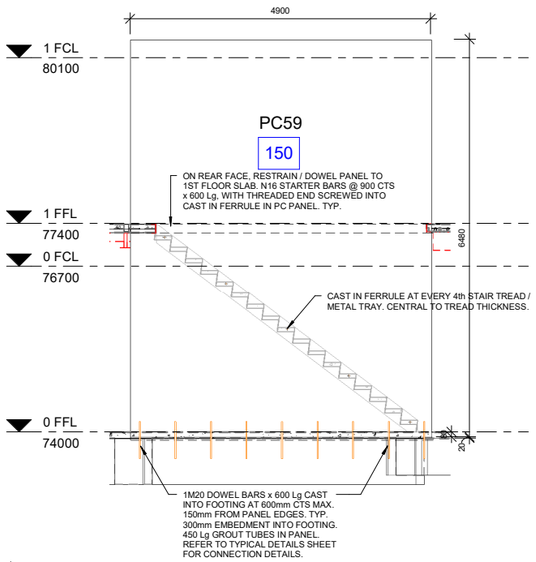


P.E7 PC PANEL ELEVATION 7

1 : 50

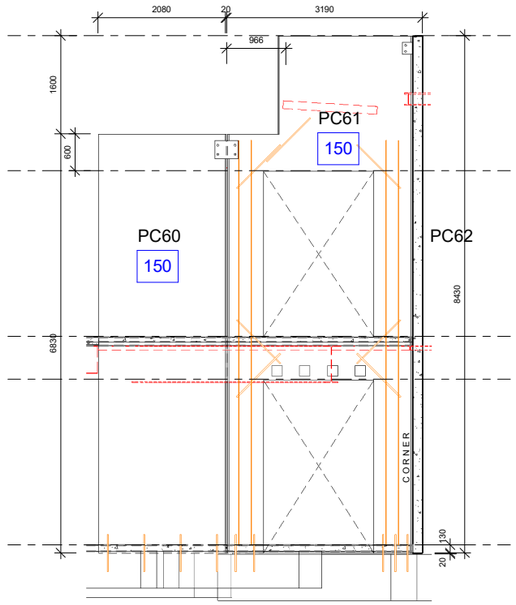
NOTE:

1. INSIDE FACE OF PANEL SHOWN.
2. REFER TO PC PANEL NOTES ON SHEET S00.
3. FOR ADDITIONAL REINFORCEMENT, REFER TO PC PANEL REINFORCEMENT SCHEDULE AND WHERE NOMINATED ON PC PANEL ELEVATIONS.
4. ALL PANELS - SL92 MESH CENTRAL.
5. N16 PERIMETER BARS WITH 600 C.O.G. TYPICAL. - REFER TO TYPICAL PC PANEL DETAIL ON SHT: S08-5



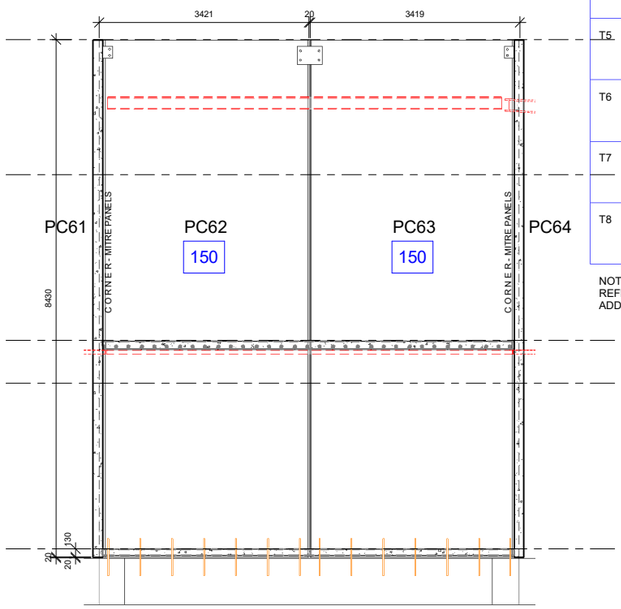
P.E8 PC PANEL ELEVATION 8

1 : 50



P.E9 PC PANEL ELEVATION 9

1 : 50



P.E10 PC PANEL ELEVATION 10

1 : 50

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

Issue	Amendments	Date
7	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
6	Issued for Building Rules Consent	30/06/22
5	Panels PC14 & PC15 deleted.	27/06/22
4	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
3	Updated Plans - Issued for Review	06/05/22
2	Updated Plans	13/04/22
1	Updated Plans - Work in progress.	30/03/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

PANEL ELEVATION - SHEET 2

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S05-2.7

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

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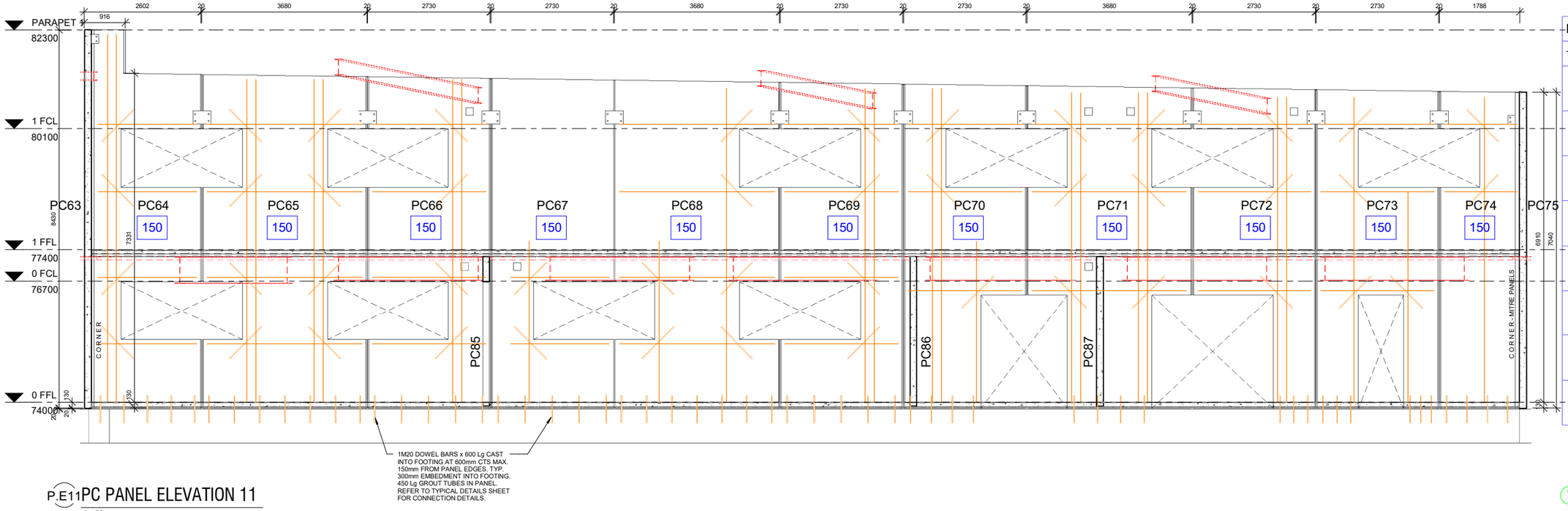


P.E11 PC PANEL ELEVATION 11

1 : 50

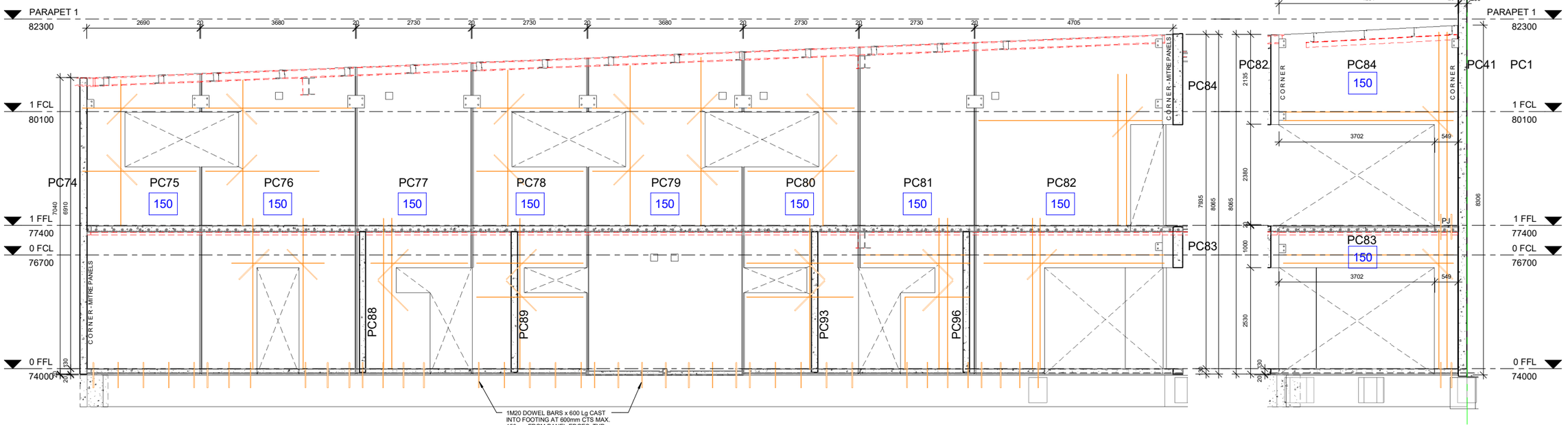
PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

NOTE:

1. INSIDE FACE OF PANEL SHOWN.
2. REFER TO PC PANEL NOTES ON SHEET S00.
3. FOR ADDITIONAL REINFORCEMENT, REFER TO PC PANEL REINFORCEMENT SCHEDULE AND WHERE NOMINATED ON PC PANEL ELEVATIONS.
4. ALL PANELS - SL92 MESH CENTRAL.
5. N16 PERIMETER BARS WITH 600 C.O.G. TYPICAL. - REFER TO TYPICAL PC PANEL DETAIL ON SHT: S08-5



P.E12 PC PANEL ELEVATION 12

1 : 50

P.E13 PC PANEL ELEVATION 13

1 : 50

Issue	Amendments	Date
6	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
5	Issued for Building Rules Consent	30/06/22
4	Panels PC14 & PC15 deleted.	27/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans	13/04/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

PANEL ELEVATION - SHEET 3

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S05-3.6

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

When sheet printed @ A1, the scale bar is 100mm.

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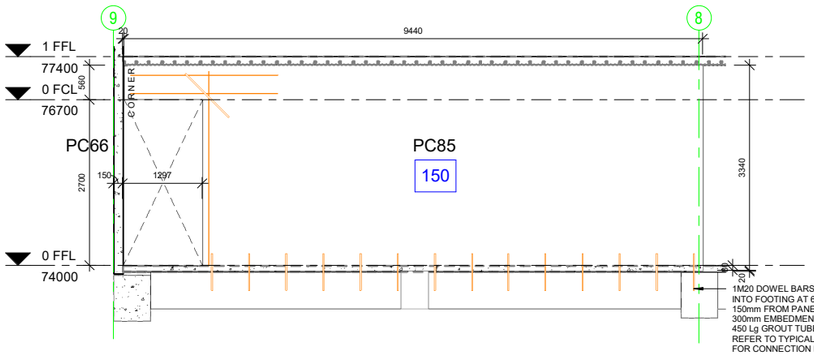
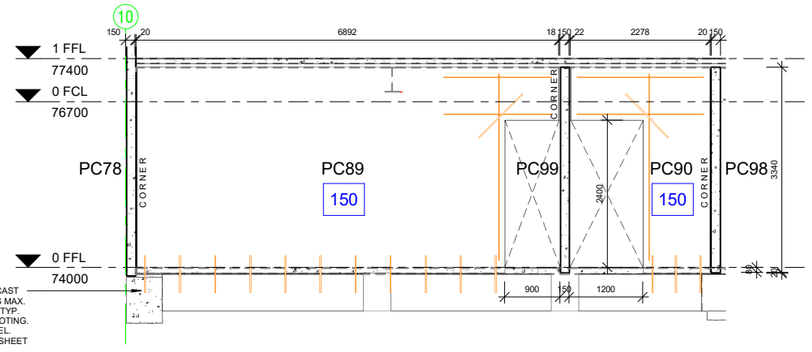


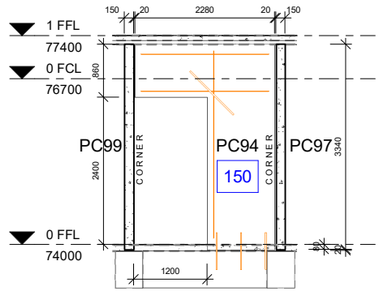
P.E14 PC PANEL ELEVATION 14

1 : 50



P.E18 PC PANEL ELEVATION 18

1 : 50

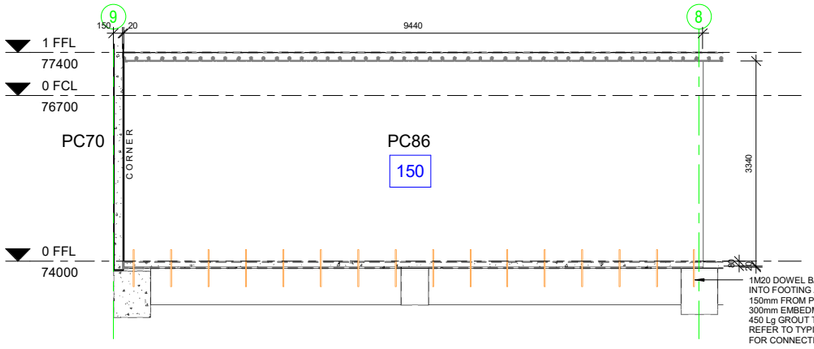


P.E22 PC PANEL ELEVATION 22

1 : 50

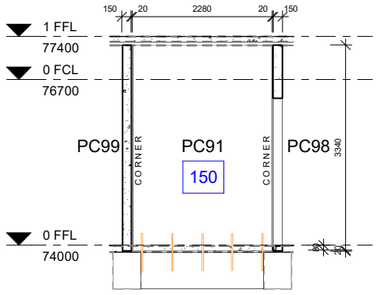
PC PANEL REINFORCEMENT SCHEDULE		
TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.



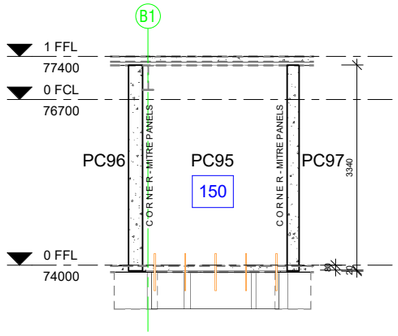
P.E15 PC PANEL ELEVATION 15

1 : 50



P.E19 PC PANEL ELEVATION 19

1 : 50

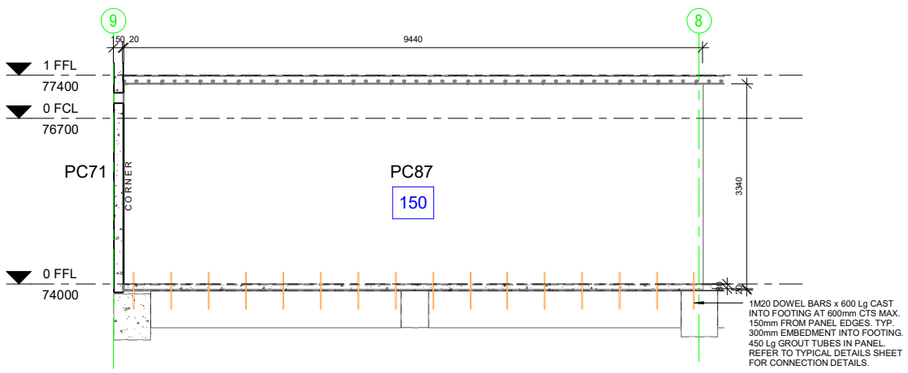


P.E23 PC PANEL ELEVATION 23

1 : 50

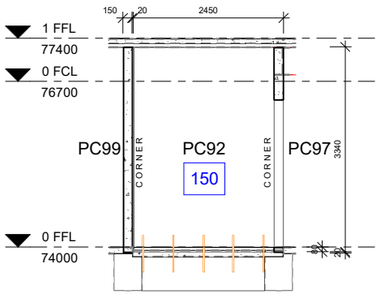
NOTE:

1. INSIDE FACE OF PANEL SHOWN.
2. REFER TO PC PANEL NOTES ON SHEET S00.
3. FOR ADDITIONAL REINFORCEMENT, REFER TO PC PANEL REINFORCEMENT SCHEDULE AND WHERE NOMINATED ON PC PANEL ELEVATIONS.
4. ALL PANELS - SL92 MESH CENTRAL.
5. N16 PERIMETER BARS WITH 600 C.O.G. TYPICAL. - REFER TO TYPICAL PC PANEL DETAIL ON SHT: S08-5



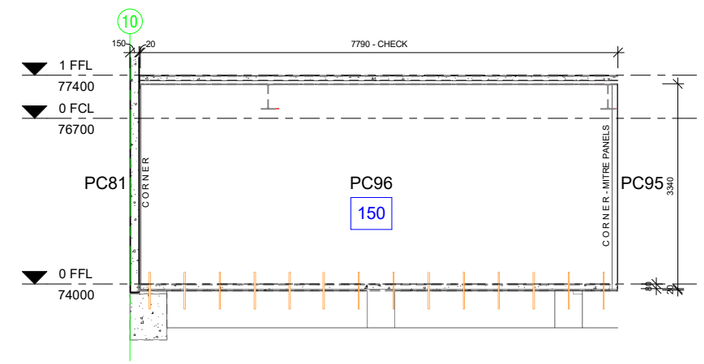
P.E16 PC PANEL ELEVATION 16

1 : 50



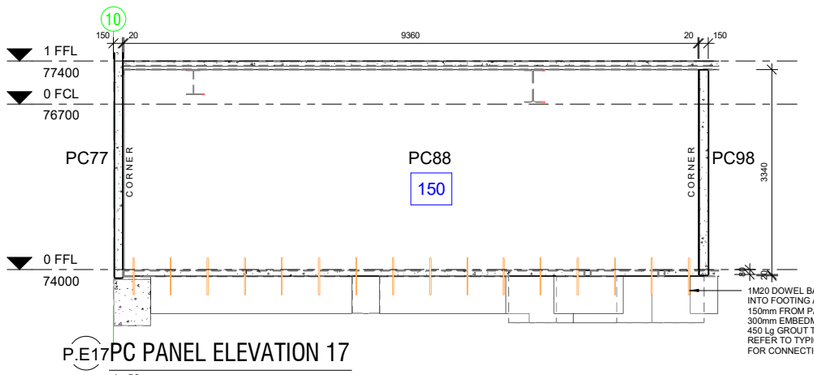
P.E20 PC PANEL ELEVATION 20

1 : 50



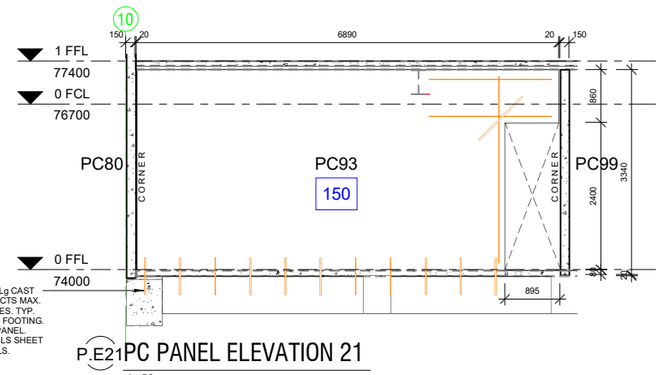
P.E24 PC PANEL ELEVATION 24

1 : 50



P.E17 PC PANEL ELEVATION 17

1 : 50



P.E21 PC PANEL ELEVATION 21

1 : 50

Issue	Amendments	Date
6	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
5	Issued for Building Rules Consent	30/06/22
4	Panels PC14 & PC15 deleted.	27/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans	13/04/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

PANEL ELEVATION - SHEET 4

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S05-4.6

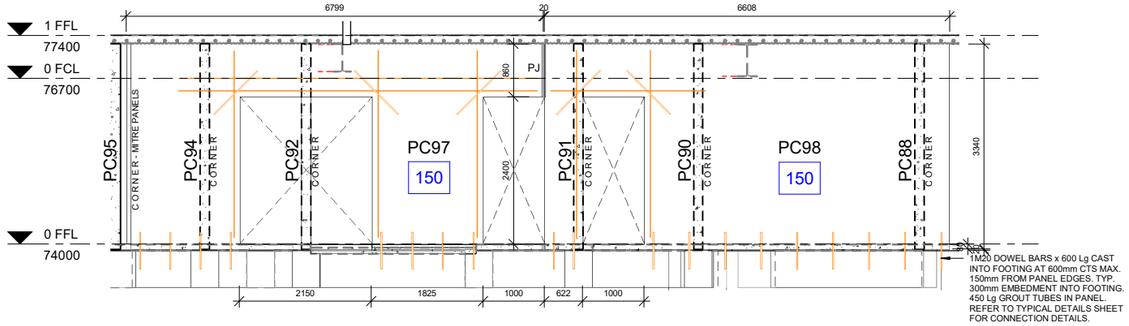
Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

10/07/2022 2:36:40 PM

When sheet printed @ A1, the scale bar is 100mm.

0 50 100



P.E25 PC PANEL ELEVATION 25

1 : 50

P.E26 PC PANEL ELEVATION 26

1 : 50

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

NOTE:

1. INSIDE FACE OF PANEL SHOWN.
2. REFER TO PC PANEL NOTES ON SHEET S00.
3. FOR ADDITIONAL REINFORCEMENT, REFER TO PC PANEL REINFORCEMENT SCHEDULE AND WHERE NOMINATED ON PC PANEL ELEVATIONS.
4. ALL PANELS - SL92 MESH CENTRAL.
5. N16 PERIMETER BARS WITH 600 C.O.G. TYPICAL. - REFER TO TYPICAL PC PANEL DETAIL ON SHT: S08-5

Issue	Amendments	Date
6	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
5	Issued for Building Rules Consent	30/06/22
4	Panels PC14 & PC15 deleted.	27/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans	13/04/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

PANEL ELEVATION - SHEET 5

TONKIN design
SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 29/03/22

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S05-5.6

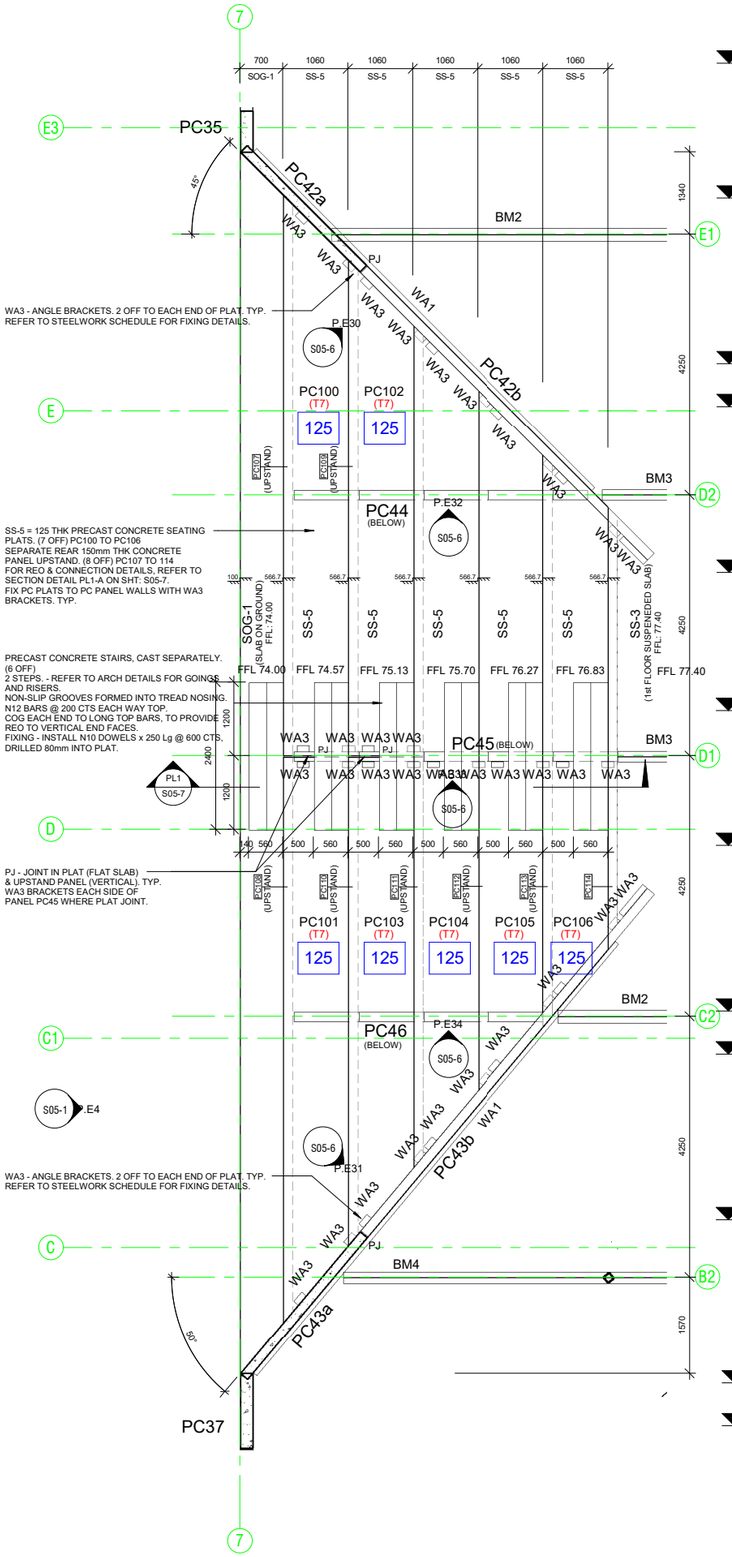
Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

19/07/2022 2:26:40 PM

When sheet printed @ A1, the scale bar is 100mm.

0 50 100



P.E4-APC PANEL ELEVATION 4-A

1 : 50

STEEL RAFTER TO PASS OVER / BEAR ON PC PANEL. 2M20 BOLTS IN TOP EDGE OF PANEL. TYP.

P.E30PC PANEL ELEVATION 30

1 : 50

P.E31PC PANEL ELEVATION 31

1 : 50

P2 PRECAST_PLAN-BLEACHERS/PLATS

1 : 50

P.E32PC PANEL ELEVATION 32

1 : 50

1M20 DOWEL BARS x 600 Lg CAST INTO FOOTING AT 600mm CTS MAX. 150mm FROM PANEL EDGES. TYP. 300mm EMBEDMENT INTO FOOTING. 450 Lg GROUT TUBES IN PANEL. REFER TO TYPICAL DETAILS SHEET FOR CONNECTION DETAILS.

P.E33PC PANEL ELEVATION 33

1 : 50

P.E34PC PANEL ELEVATION 34

1 : 50

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

PRECAST PLAT DETAILS

Mark	Thickness	Strength	Reinforcement	Area	Volume	Comments
SS-5	125mm Thick PC Panel Plats for Seating. Refer PC Panel Plan.	25MPa	TYPE T7 - SL82 Mesh in Bottom. - 30mm Cover.	66 m²	8.20 m³	

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

Issue	Amendments	Date
6	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
5	Issued for Building Rules Consent	30/06/22
4	Panels PC14 & PC15 deleted.	27/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans	13/04/22

Project
~~BCCC~~ Stage 6 - Gym + GLA
14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing
PRECAST BLEACHERS / PLATS - SHEET 6

TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 12/04/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419

 Drawing Number : S05-6.6

Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

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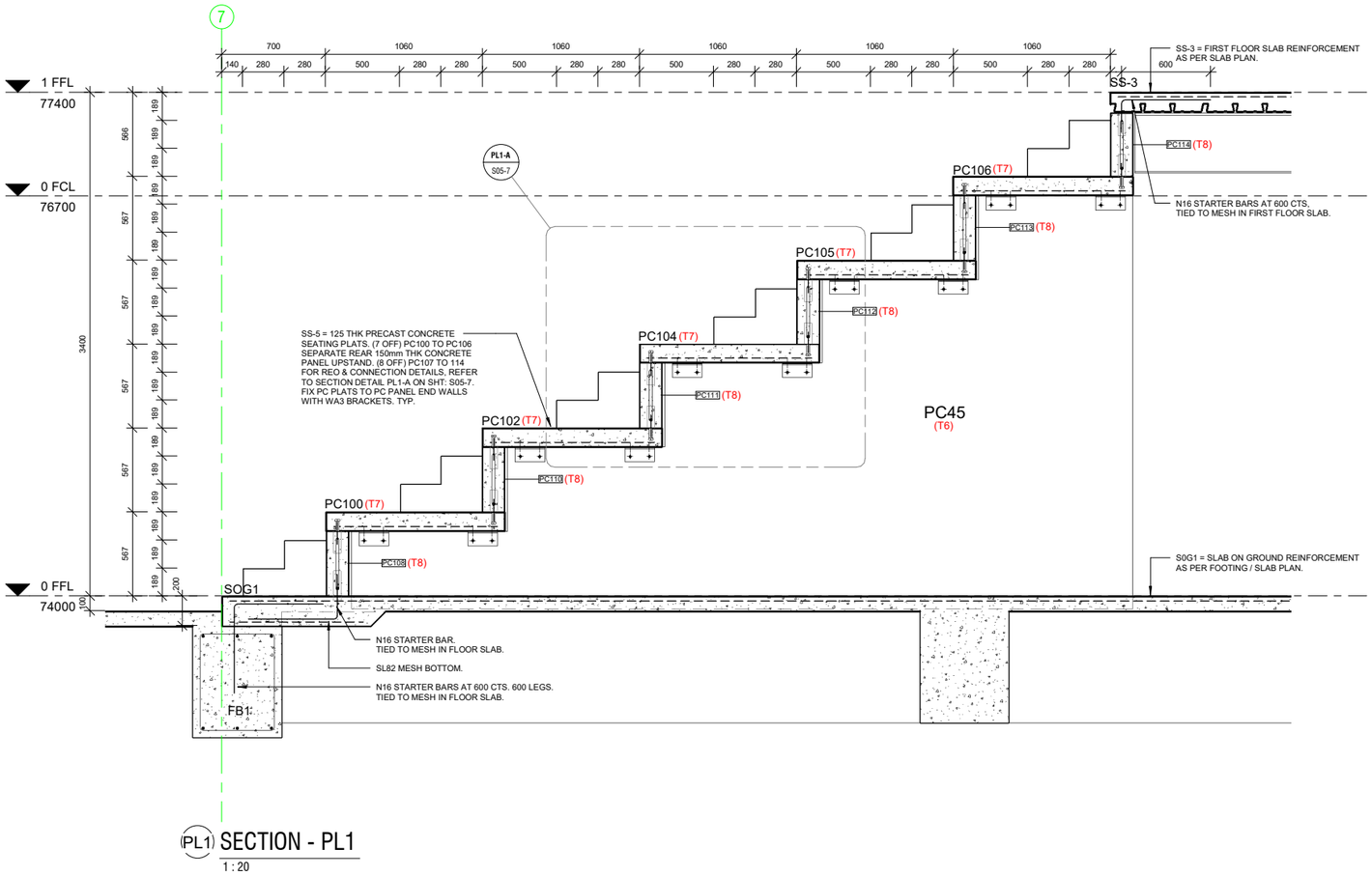
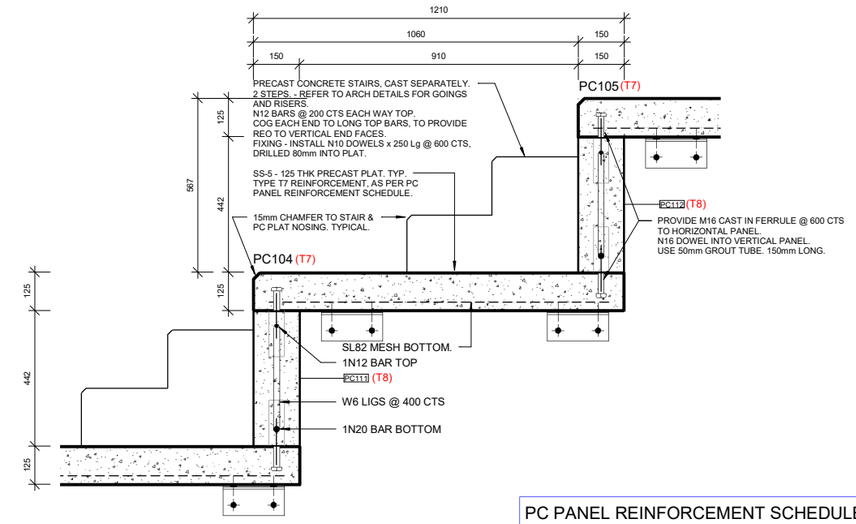


PL1 SECTION - PL1
1 : 20



PL1-A SECTION DETAIL - PL1-A
1 : 10

PC PANEL REINFORCEMENT SCHEDULE

TYPE	PANEL REINFORCEMENT	PANEL NUMBERS
T1	SL92 MESH IN BOTH FACES. N16 BARS @ 400 CTS (VERT.) INSIDE FACE.	PC1,PC3,PC5,PC7,PC9,PC11, PC13
T2	SL92 MESH - CENTRAL. N16 BARS @400 CTS (VERT.) INSIDE FACE.	PC16,PC19,PC22,PC25,PC28, PC31,PC34
T3	SL92 MESH IN BOTH FACES. 2N16 BARS T&B.	PC2,PC4,PC6,PC8,PC10,PC12
T4	SL92 MESH - CENTRAL. 1N20 BAR T&B.	PC17,PC18,PC20,PC21,PC23, PC24,PC26,PC27,PC29,PC30, PC32,PC33
T5	SL72 MESH BOTH FACES - 30mm COVER. 2N24 BARS TOP 4N24 BOTTOM W10 LIGS @ 400 CTS.	PC36
T6	SL82 MESH - CENTRAL. N16 PERIMETER BARS.	PC44,PC45,PC46
T7	SL82 MESH BOTTOM.	PC100,PC101,PC102,PC103,P C104,PC105,PC106
T8	1N12 BAR TOP. 1N20 BAR BOTTOM W6 LIGS @ 400 CTS.	PC107,PC108,PC109,PC110, PC111,PC112,PC113,PC114

NOTE:
REFER TO PC PANEL NOTES ON SHEET S00.
ADDITIONAL REINFORCEMENT SHOWN ON PC PANEL ELEVATIONS.

Issue	Amendments	Date
6	PC Panel PC36 Reinforcement updated, as per Struct.Eng review.	19/07/22
5	Issued for Building Rules Consent	30/06/22
4	Panels PC14 & PC15 deleted.	27/06/22
3	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
2	Updated Plans - Issued for Review	06/05/22
1	Updated Plans	13/04/22

Project
BCCC Stage 6 - Gym + GLA
14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing
PRECAST BLEACHERS / PLATS - SHEET 7

TONKIN design SCHUTZ build
16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 12/04/22
Drawn : -
Scale : As indicated (@ A1) or (@ A3)
Project Number : 0419
 Drawing Number : S05-7.6

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

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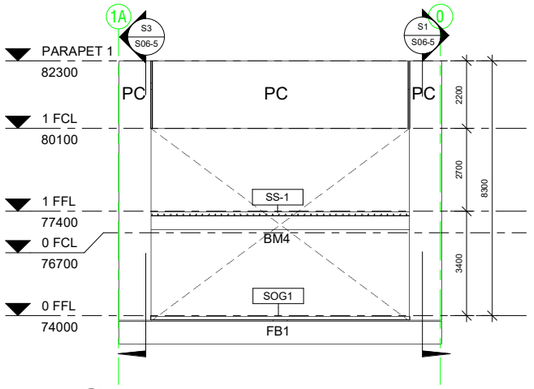
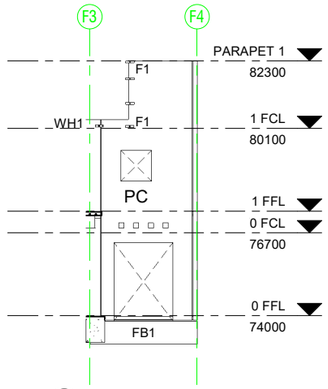
0 50 100



S.E1 STRUCT ELEVATION - S.E1

1 : 100



S.E2 STRUCT ELEVATION - S.E2

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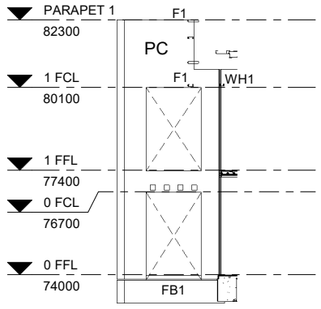

S.E4 STRUCT ELEVATION - S.E4

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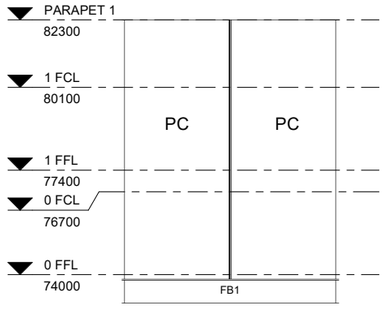
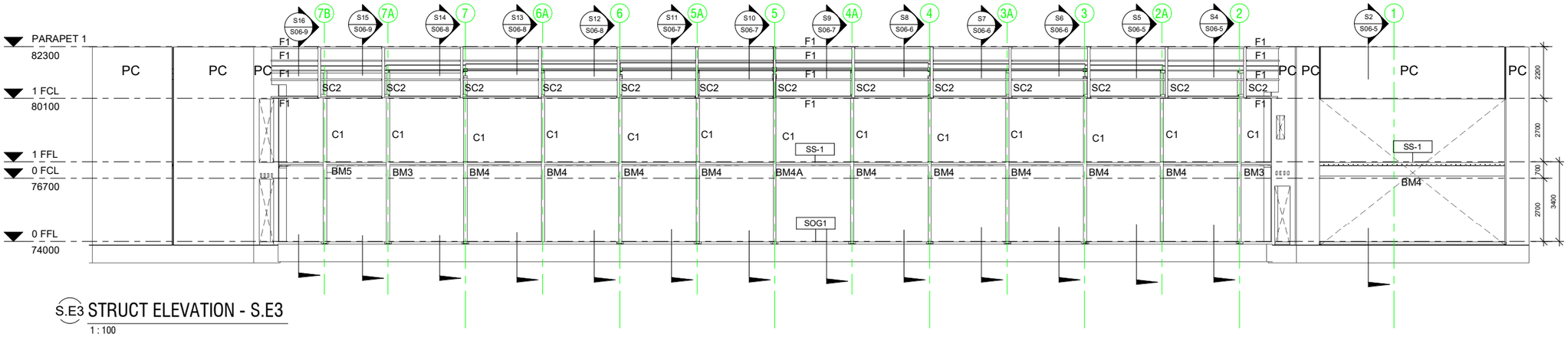


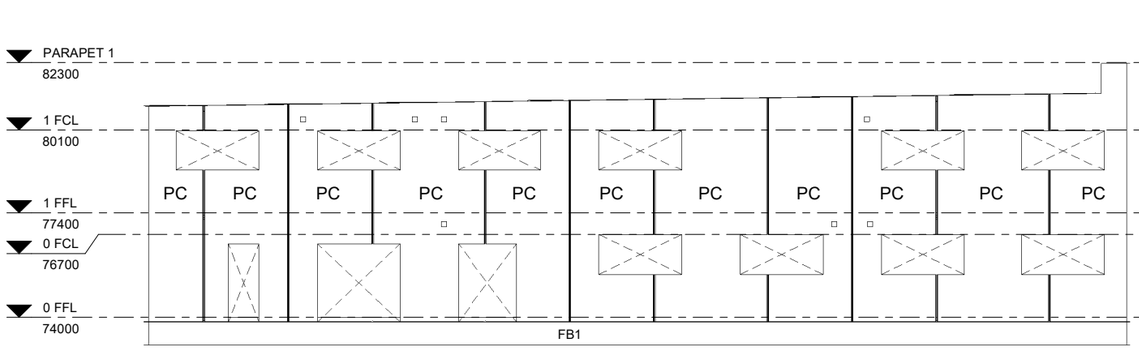
S.E5 STRUCT ELEVATION - S.E5

1 : 100



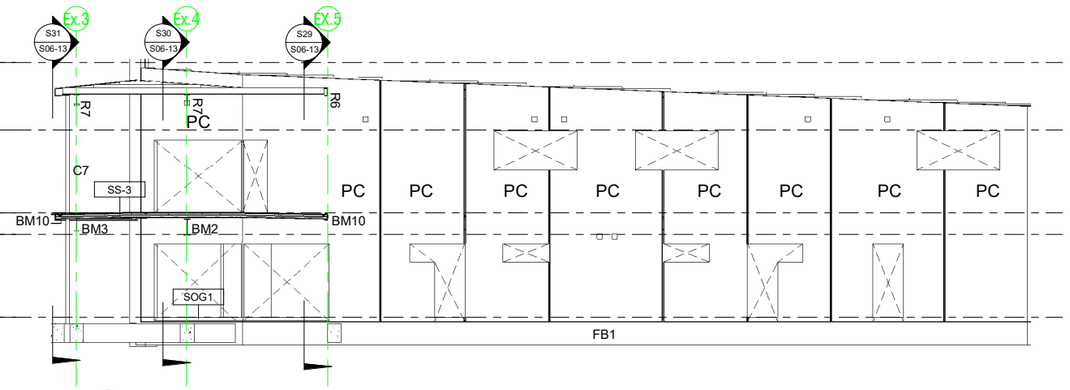
S.E3 STRUCT ELEVATION - S.E3

1 : 100



S.E6 STRUCT ELEVATION - S.E6

1 : 100



S.E7 STRUCT ELEVATION - S.E7

1 : 100

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK ELEVATION-SHEET 1

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-1.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

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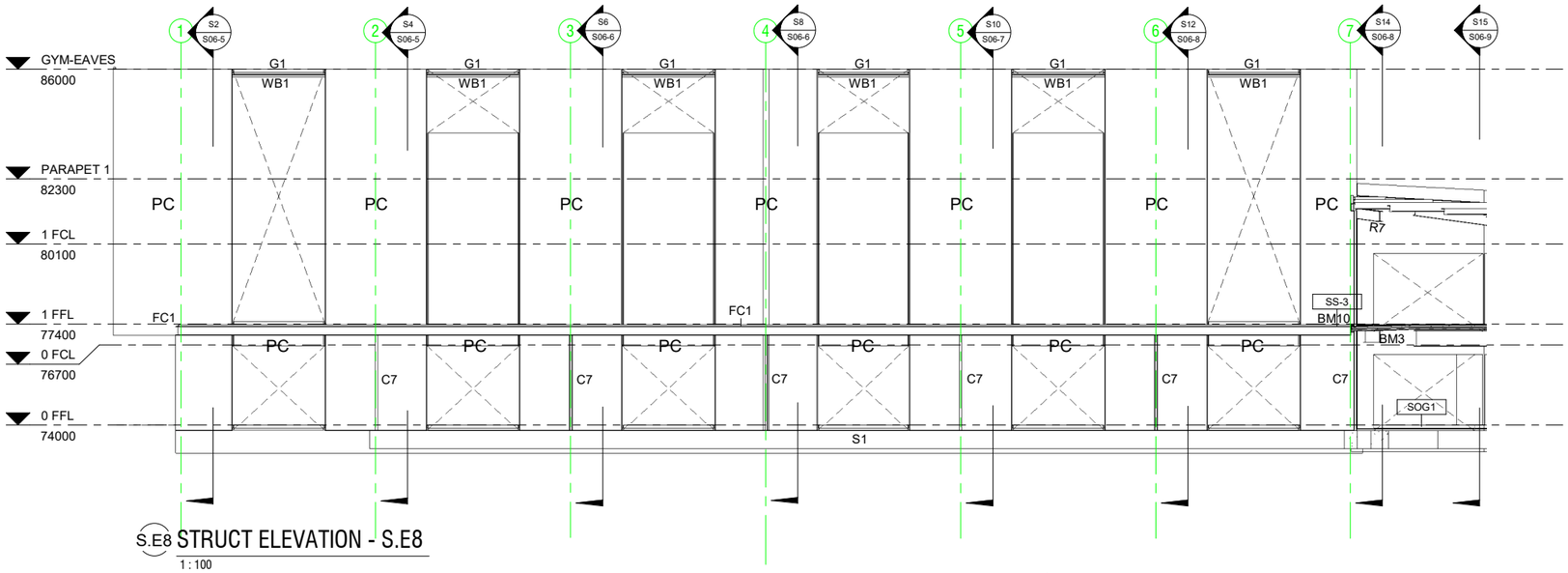
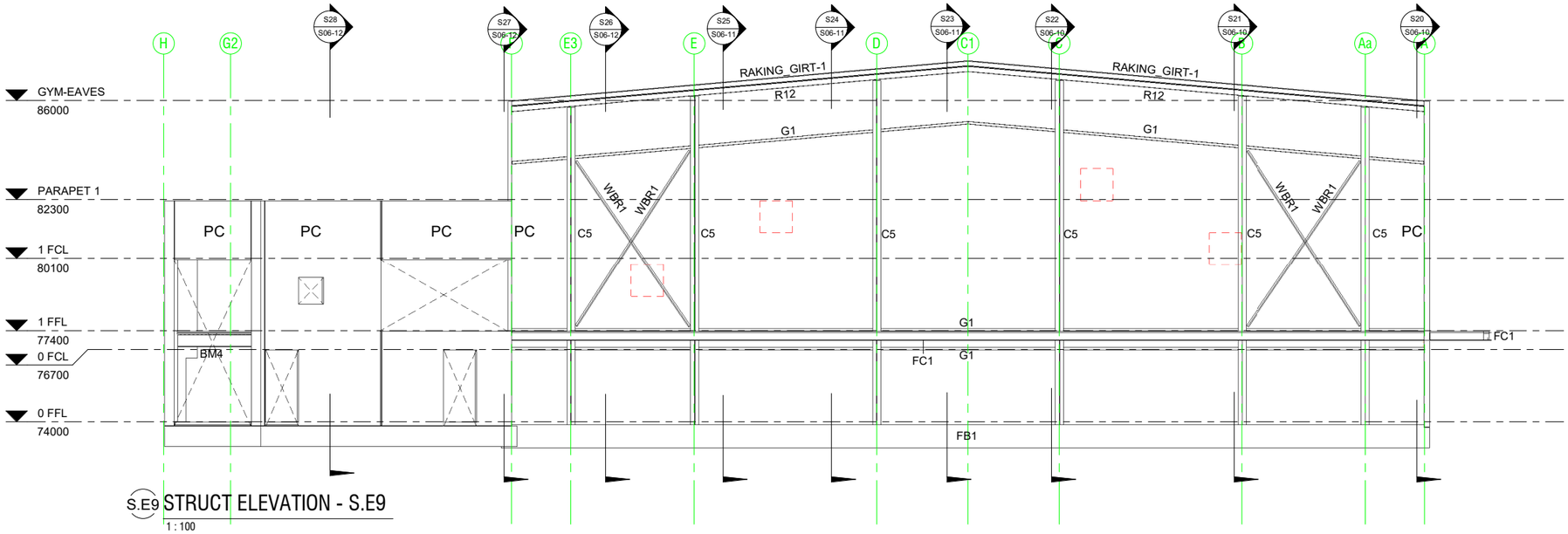


S.E8 STRUCT ELEVATION - S.E8

1 : 100



S.E9 STRUCT ELEVATION - S.E9

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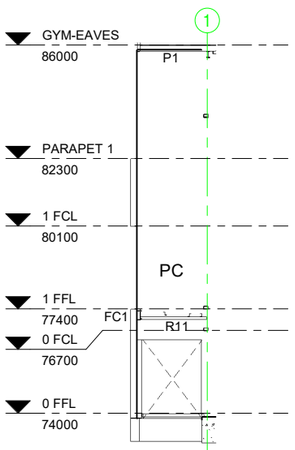
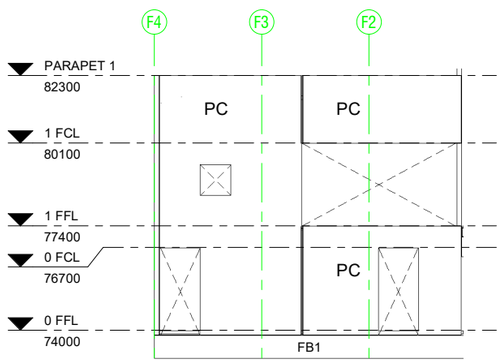


S.E10 STRUCT ELEVATION - S.E10

1 : 100



S.E11 STRUCT ELEVATION - S.E11

1 : 100

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

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Structural Column Schedule		
Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule		
Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE. AT 900 CTS.
WA2	75x75x6EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL.
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule		
Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK ELEVATION-SHEET 2

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

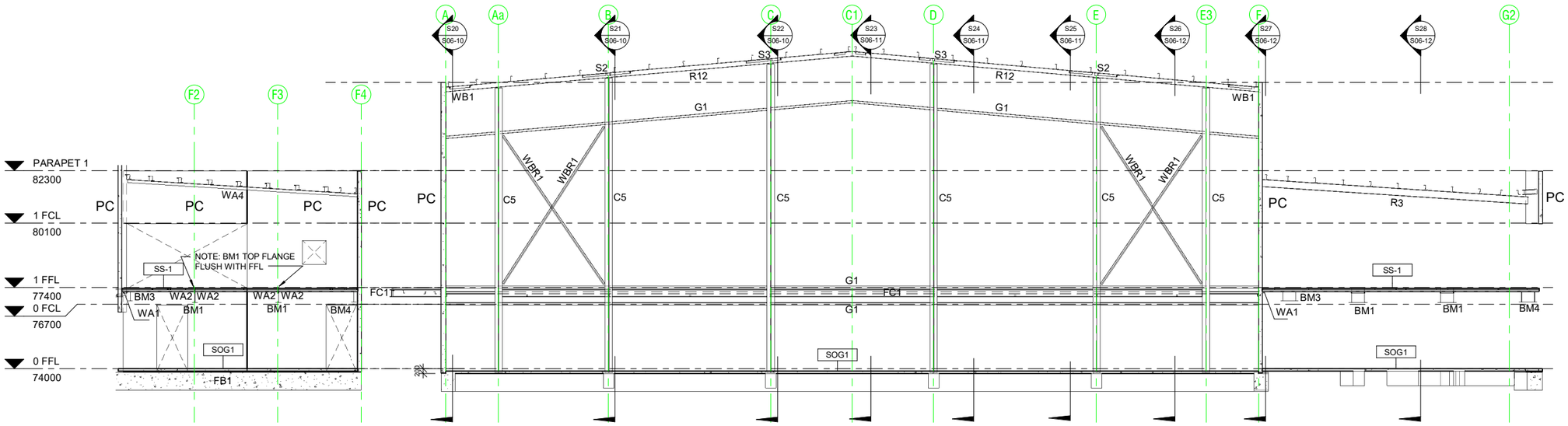
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-2.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



S1 SECTION - S1(ALONG GRID 0)

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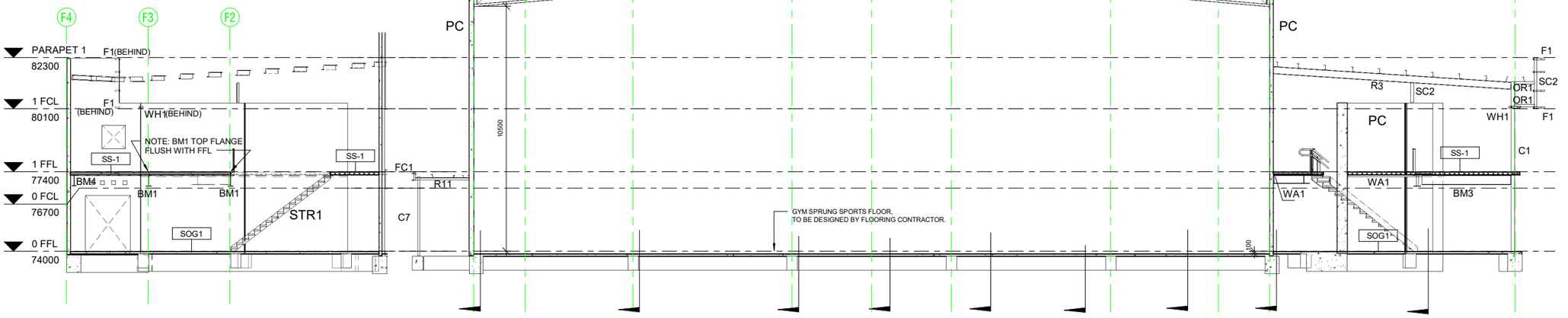


S2 SECTION - S2(ALONG GRID 1)

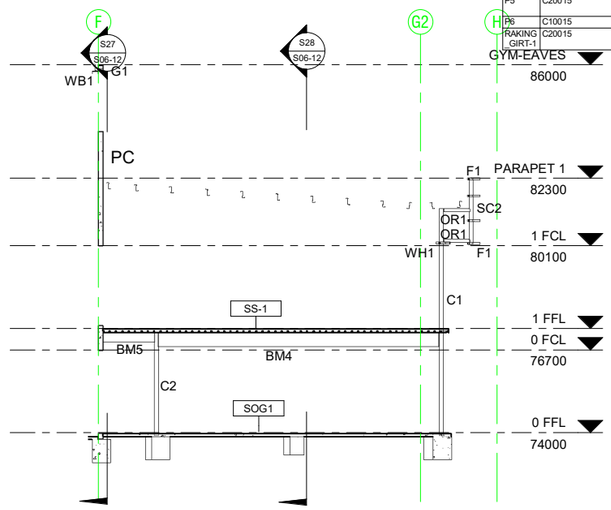
1 : 100

S3 SECTION-S3(ALONG GRID 1A)

1 : 100

S4 SECTION-S4(ALONG GRID 2)

1 : 100



S5 SECTION-S5(ALONG GRID 2A)

1 : 100

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN, WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/COMN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 1

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-5.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

When sheet printed @ A1, the scale bar is 100mm.

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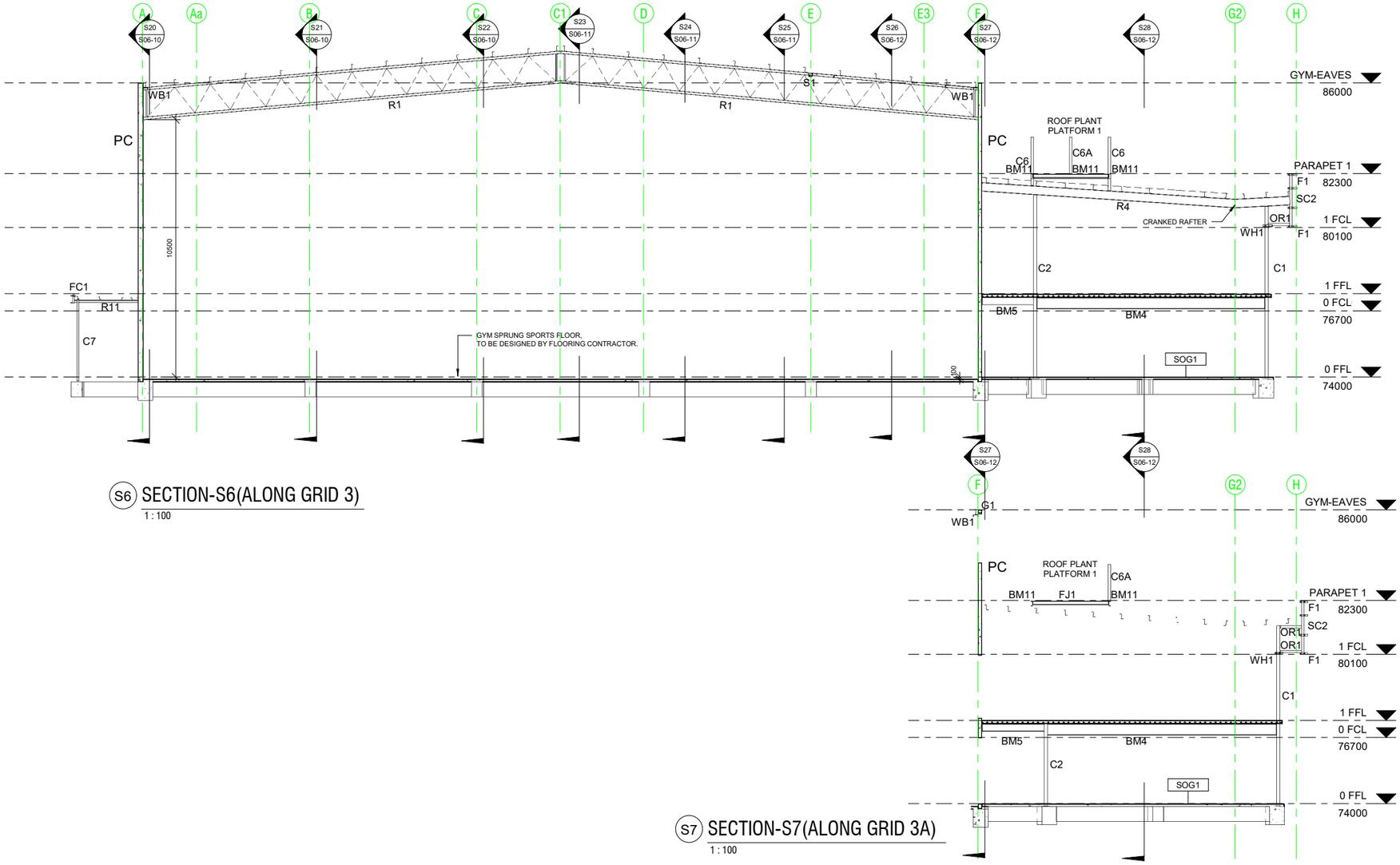
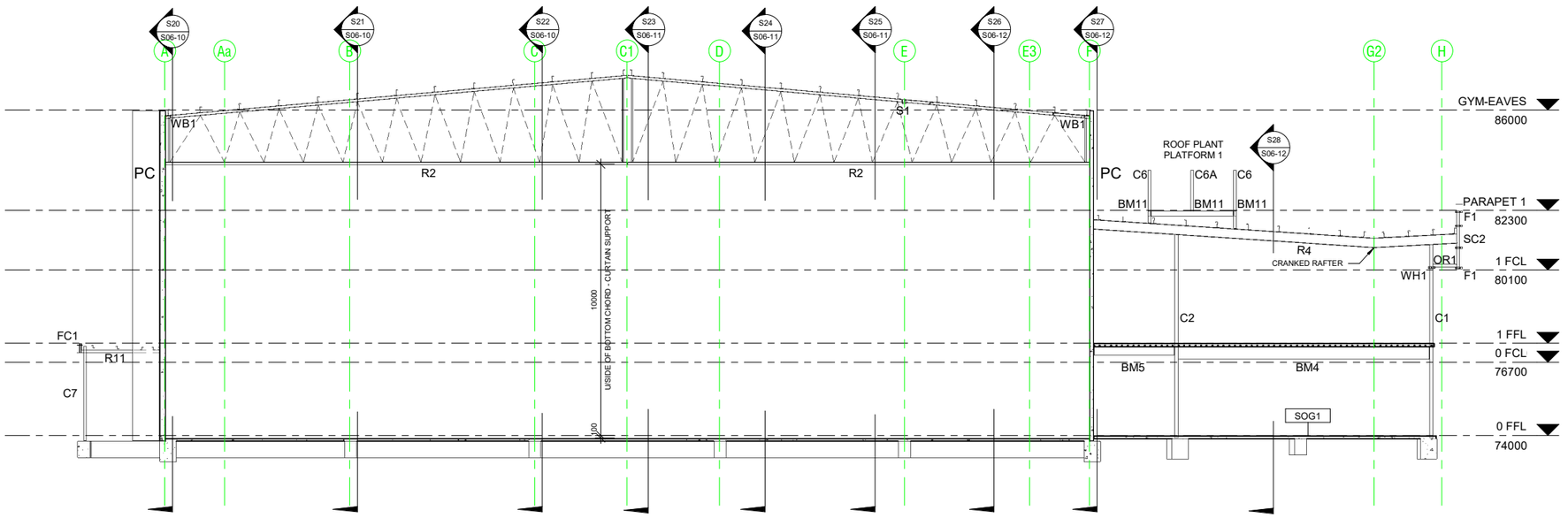


S6 SECTION-S6(ALONG GRID 3)

1 : 100

S7 SECTION-S7(ALONG GRID 3A)

1 : 100



S8 SECTION-S8(ALONG GRID 4)

1 : 100

When sheet printed @ A1, the scale bar is 100mm.

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Structural Column Schedule		
Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule		
Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule		
Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING, 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 2

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

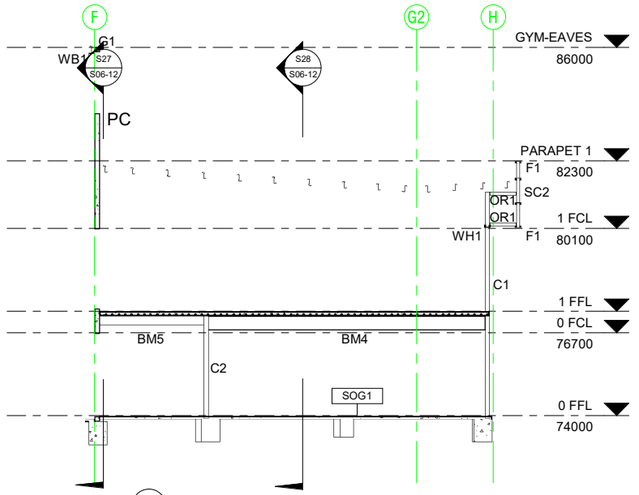
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-6.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



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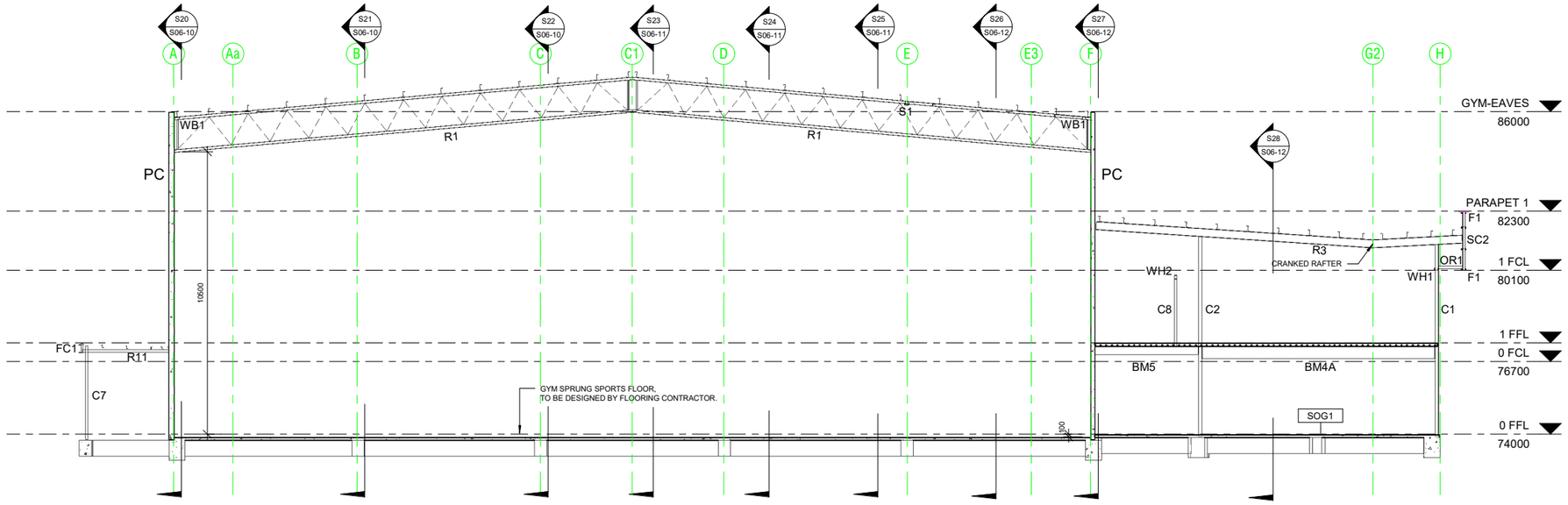

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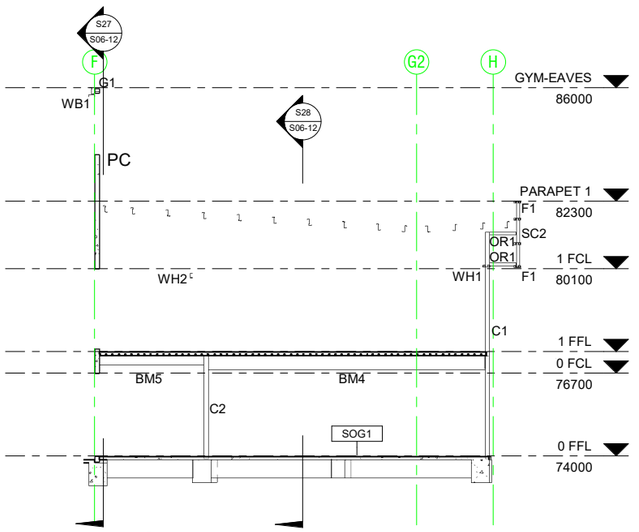

S11 SECTION-S11ALONG GRID 5A)

1 : 100

When sheet printed @ A1, the scale bar is 100mm.

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Structural Column Schedule		
Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule		
Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x05 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule		
Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 3

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

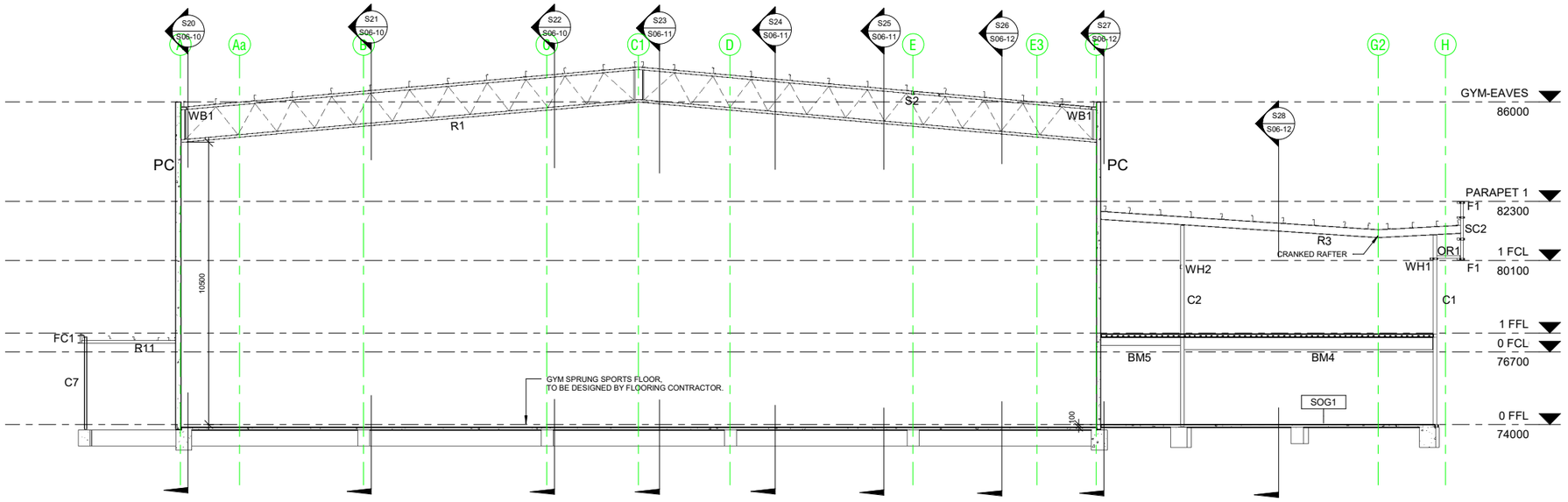
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-7.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



S12 SECTION-S12(ALONG GRID 6)

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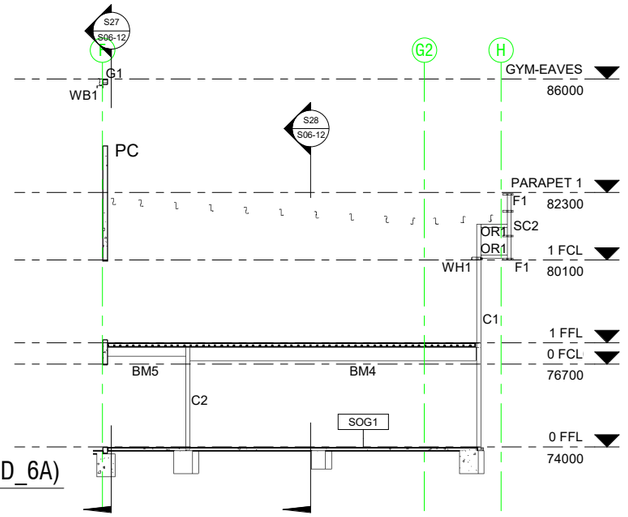

S13 SECTION-S13(ALONG_GRID_6A)

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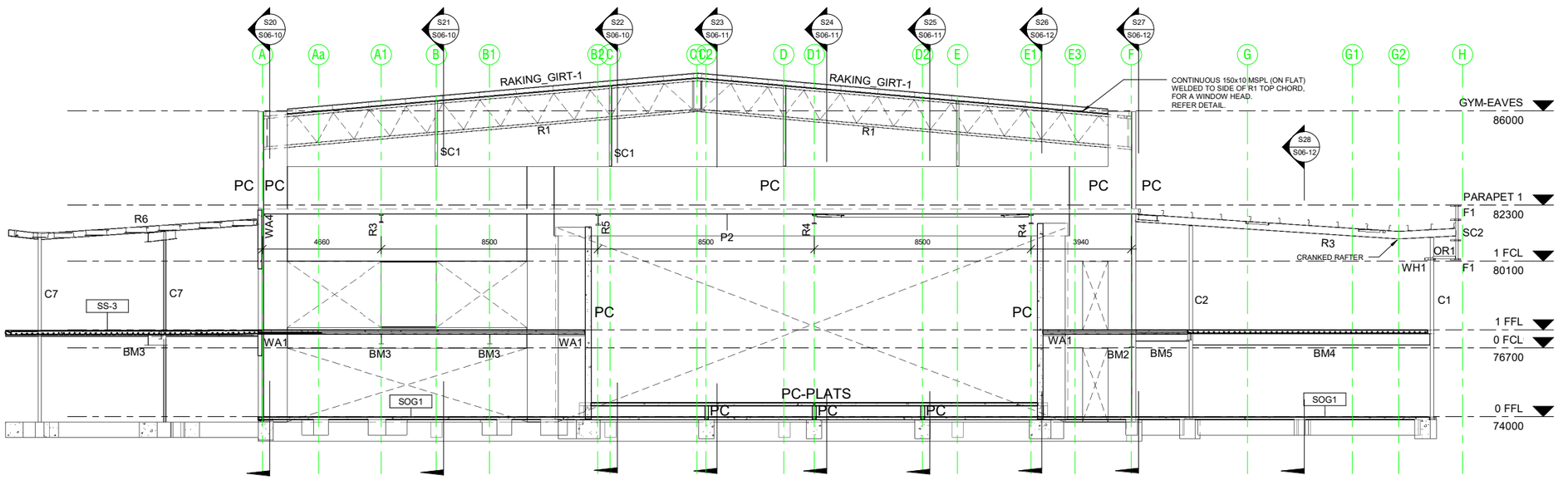

S14 SECTION-S14(ALONG GRID 7)

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When sheet printed @ A1, the scale bar is 100mm.

0 50 100

18/07/2023 2:27:07 PM

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE. AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL.
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 4

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph. (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

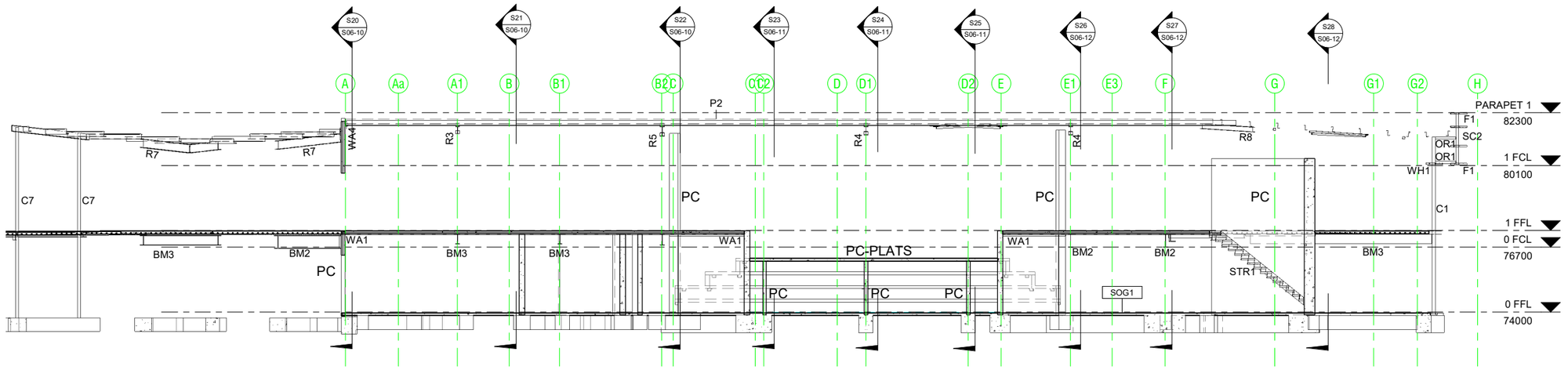
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-8.8

Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.



S15 SECTION-S15(ALONG_GRID_7A)

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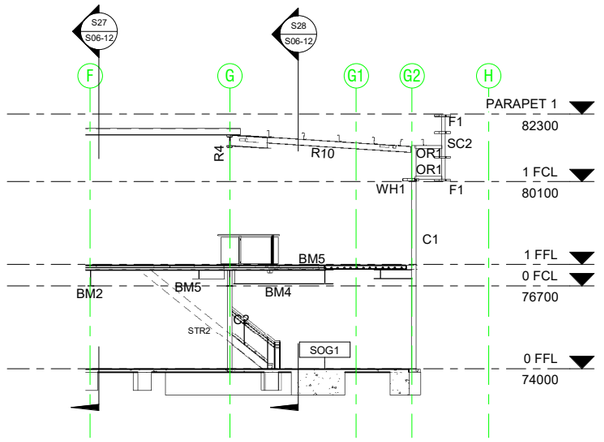
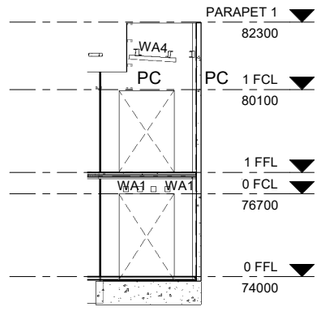


S16 SECTION-S16(ALONG GRID7B)



S17 SECTION-S17(ALONG_GRID_8A)

1 : 100

Structural Column Schedule		
Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule		
Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x60x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule		
Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING _GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 5

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : Author

Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S06-9.8

Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

When sheet printed @ A1, the scale bar is 100mm.

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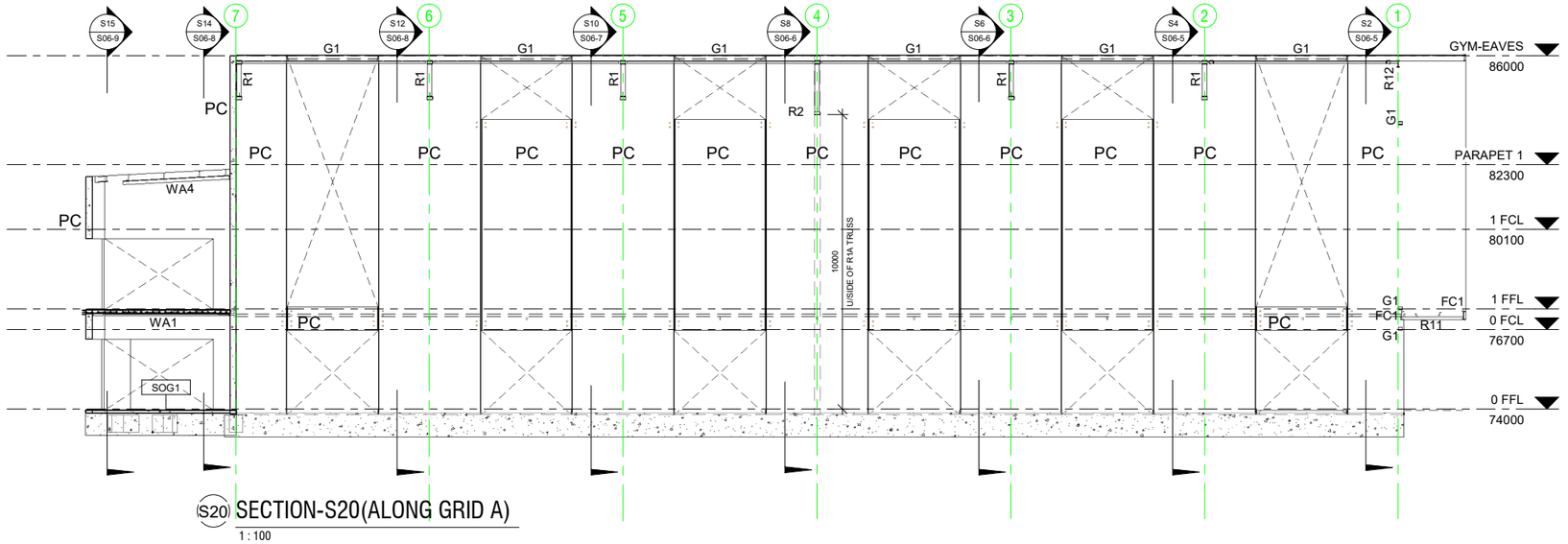

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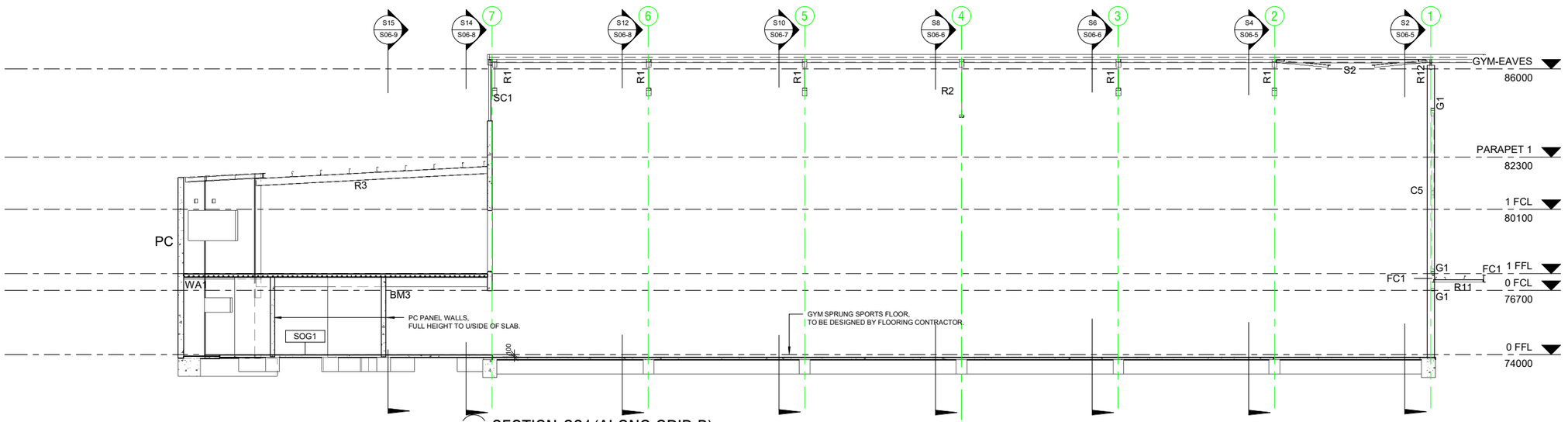

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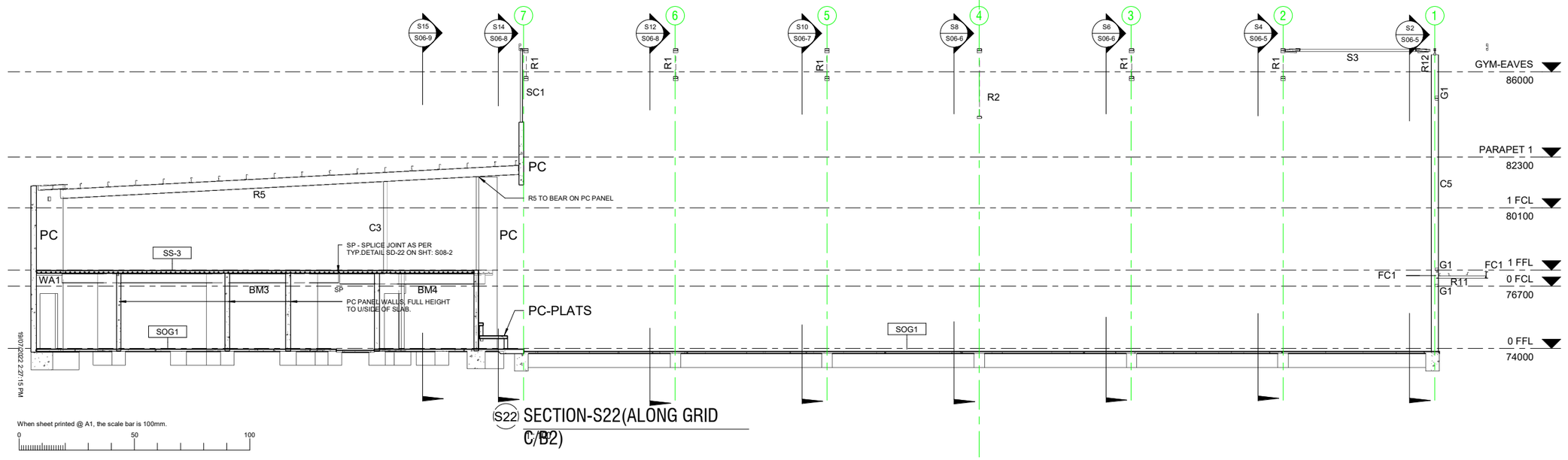

S22 SECTION-S22(ALONG GRID C/B2)

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10/02/2022 2:27:15 PM

When sheet printed @ A1, the scale bar is 100mm.

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Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
F.I1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 6

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

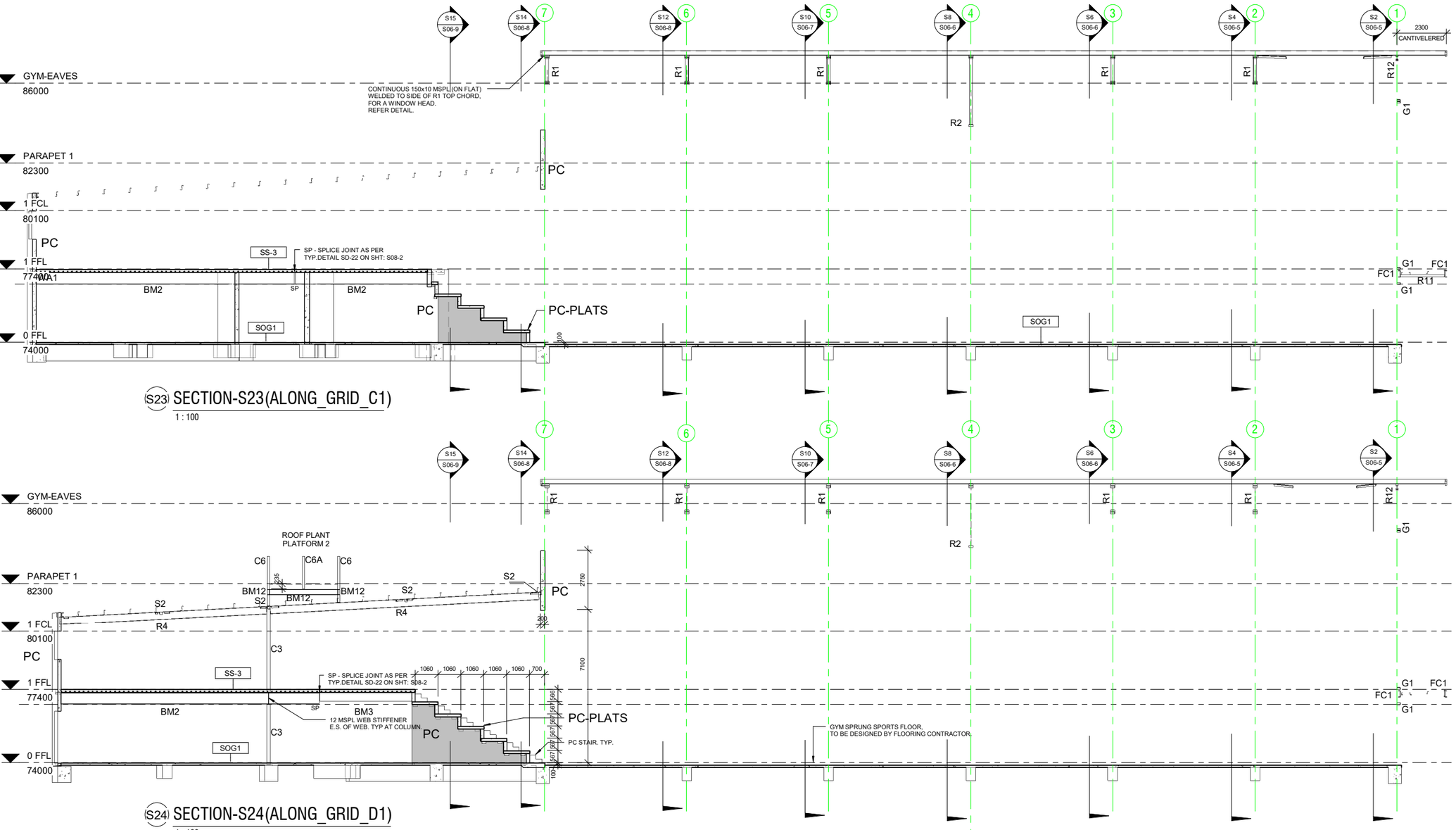
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number S06-10.8

Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.



S23 SECTION-S23(ALONG_GRID_C1)

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S24 SECTION-S24(ALONG_GRID_D1)

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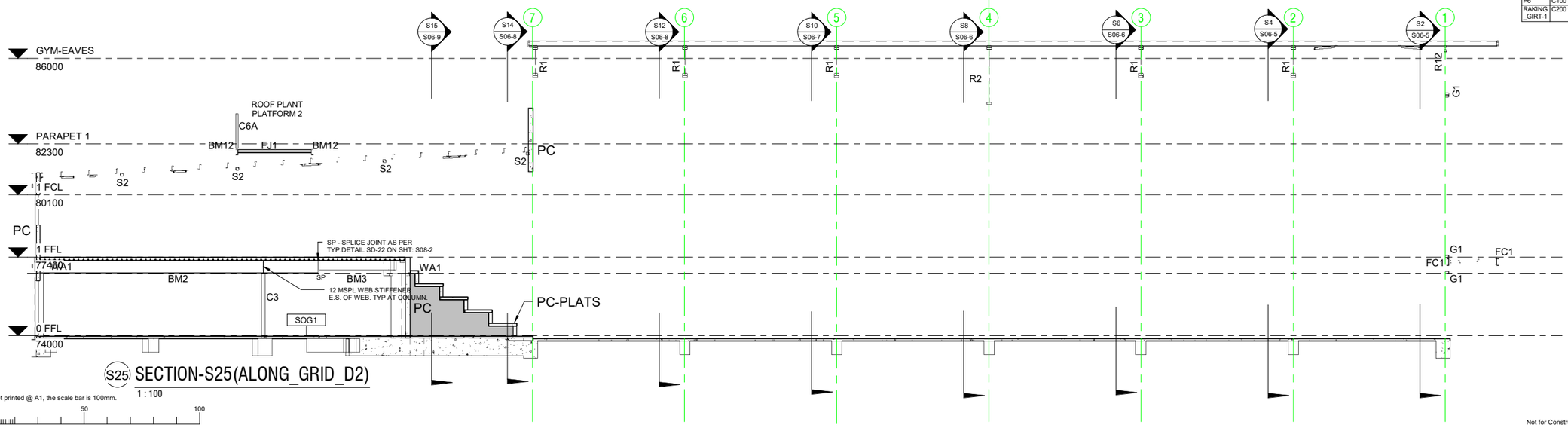

S25 SECTION-S25(ALONG_GRID_D2)

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When sheet printed @ A1, the scale bar is 100mm.

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Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE. AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING, 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 7

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph. (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : Author

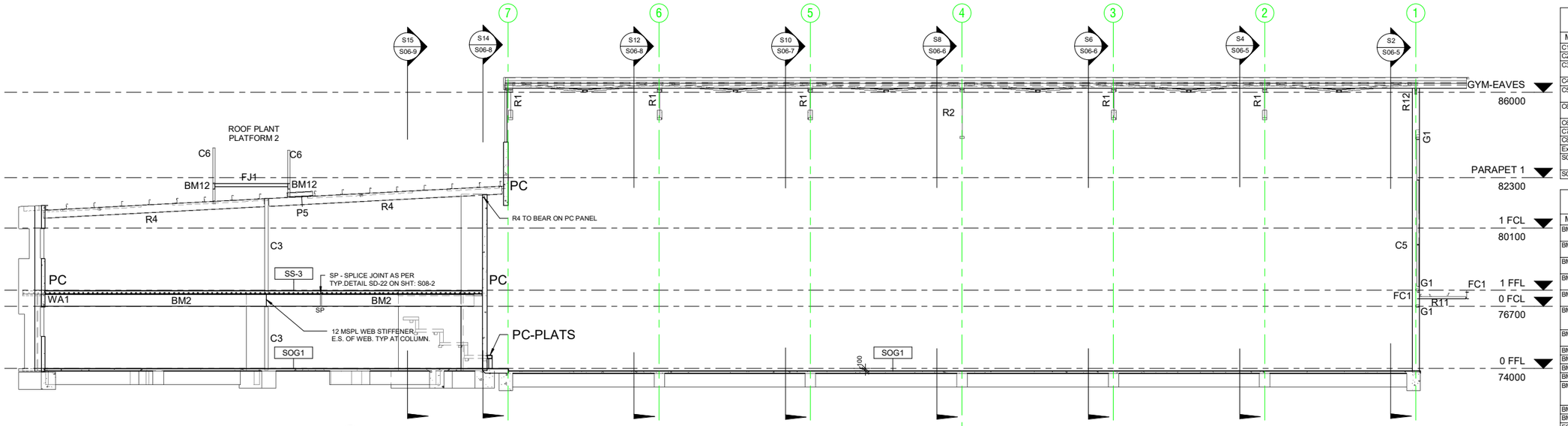
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number S06-11.8

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities



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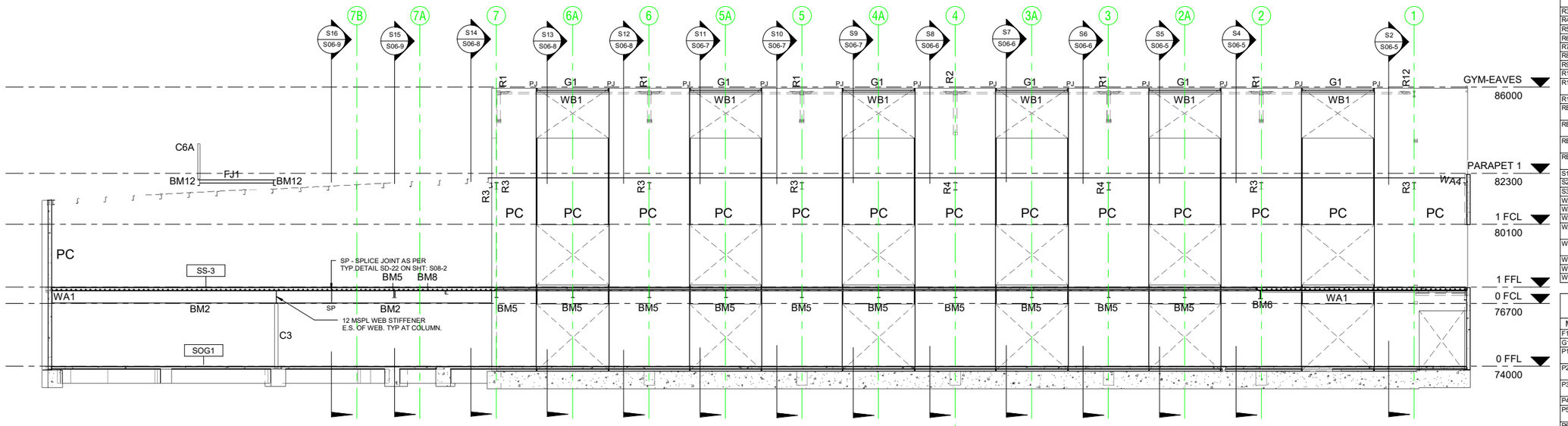

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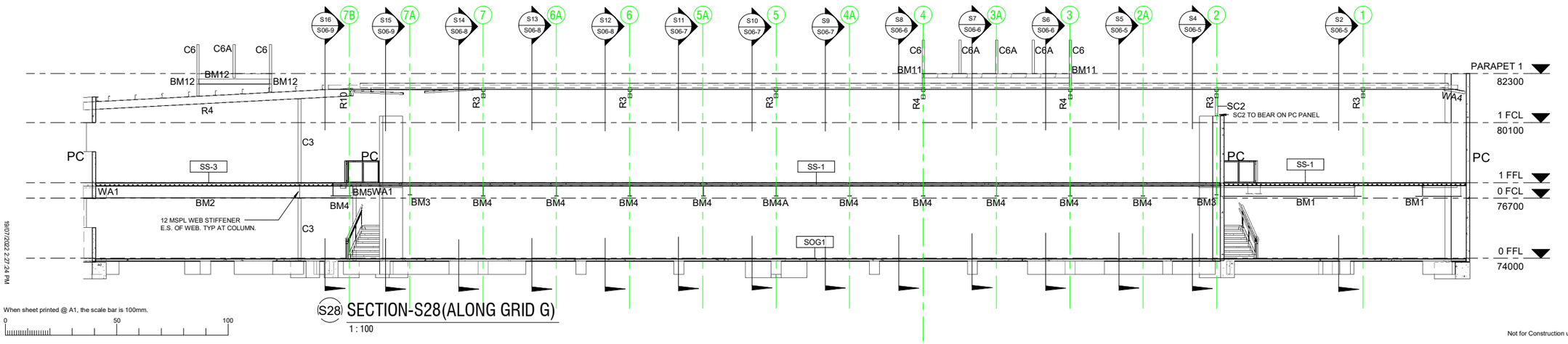

S28 SECTION-S28(ALONG GRID G)

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When sheet printed @ A1, the scale bar is 100mm.

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Structural Column Schedule		
Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule		
Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP, 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM. FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1, 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule		
Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN, BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS PICONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING_GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
8	Issued for Building Rules Consent	30/06/22
7	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
6	Updated Plans - Issued for Review	06/05/22
5	Updated Plans - Work in progress.	30/03/22
4	Updated Plans issued for review.	24/03/22
3	Updated Plans issued for review.	18/03/22
2	Updated Plans issued for review.	25/02/22
1	Updated Plans issued for review.	10/02/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 8

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph. (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

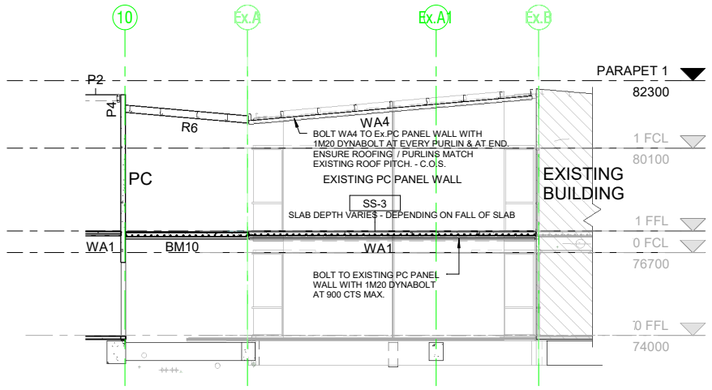
Scale : 1 : 100 (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number S06-12.8

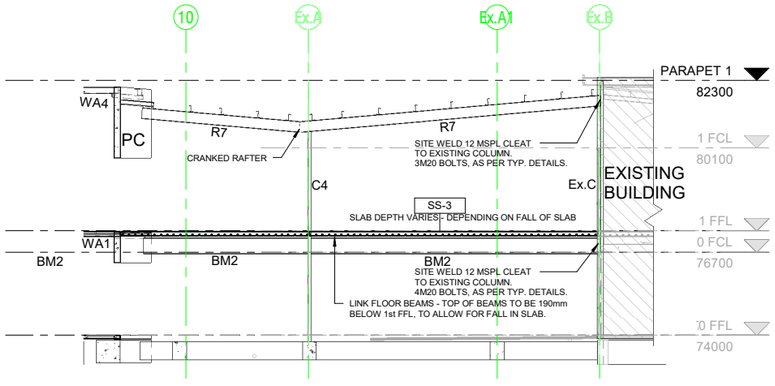
Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.



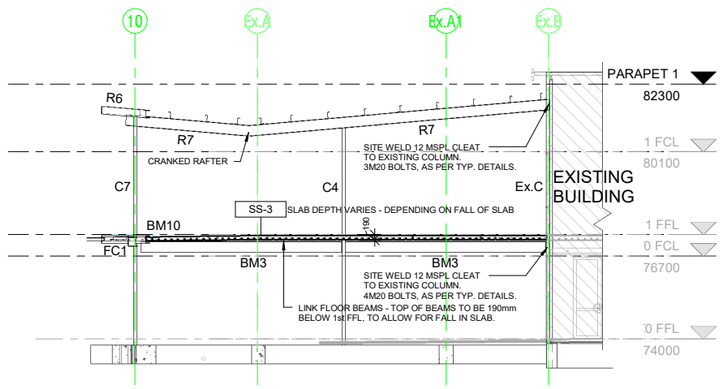
S29 SECTION-S29(ALONG_GRID_Ex.5)

1 : 100



S30 SECTION-S30(ALONG_GRID_Ex.4)

1 : 100



S31 SECTION-S31(ALONG_GRID_Ex.3)

1 : 100

16/07/2022 2:27:09 PM

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

Structural Column Schedule

Mark	Type	Comments
C1	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C2	125x125x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C3	125x125x6.0SHS	12MSPL BASEPLATE. GND FL - 4M20 CHEM ANCHORS, AS PER TYP. DETAILS. 1st FL - 4M20 HS BOLTS TO BEAM.
C4	100x100x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C5	310UC97	300x16 MSPL BASEPLATE. 4M20 H.D.BOLTS. 500 Min. EMBEDMENT, AS PER TYP.DETAILS.
C6	101.6 x 5.0 CHS	PLANT PLATFORM COLUMN. SOCKET CONNECTION OFF RAFTER. 2M20 HS BOLTS BELOW ROOFING.
C6A	101.6 x 5.0 CHS	PLANT PLATFORM POST WELDED TO BEAM TO SUPPORT SCREEN.
C7	89x89x5.0SHS	12MSPL BASEPLATE. 4M20 CHEM ANCHORS, AS PER TYP. DETAILS.
C8	89x89x5.0SHS	12MSPL BASEPLATE. 2M20 BOLTS TO BEAM, AS PER TYP. DETAILS.
Ex.C	89x89x5.0SHS	EXISTING COLUMN
SC1	100x100x5.0SHS	GYM END WALL COLUMN. 12MSPL BASE PLATE. 4M20 BOLTS INTO CAST IN FERRULES IN CONCRETE PANEL.
SC2	100x100x5.0SHS	FASCIA STUB COLUMN. WELDED TO OR1 OUTRIGGERS ON C1 IN SHOP.

Steel Framing Schedule

Mark	Type	Comments
BM1	610UB101	FLOOR BEAM. WELD WA2 TO WEB E.S. FOR BEARING OF BONDEK. WELD N12@400 CTS x1000 Lg TO WEB IN SHOP. 65mm DOWN FROM TOP FLANGE.
BM1A	610UB101	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM2	530UB92	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM3	410UB54	FLOOR BEAM. 12MSPL WEB STIFFENERS AT COLUMN. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4	460UB67	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM4A	460UB67	FLOOR BEAM SUPPORTING OPERABLE WALL. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN. PRE-DRILL HOLES IN BOTTOM FLANGE TO SUIT OPERABLE WALL TOP TRACK SUPPORTS.
BM5	310UB32	FLOOR BEAM. WELD 19mm SHEAR STUDS TO TOP FLANGE AT 1/4 POINTS OF SPAN.
BM6	360UB45	FLOOR BEAM.
BM7	250UB26	FLOOR BEAM.
BM8	150PFC	FLOOR BEAM.
BM9	200PFC	FLOOR BEAM.
BM10	250PFC	BALCONY FLOOR BEAM, FULLY RESTRAINED BY SLAB. WELD N20 BARS AT 450 CTS x 900 Lg. WELD 50x25 RHS TO TOP OF BOTTOM FLANGE FOR BEARING OF BONDEK. WELD BALUSTRADE FRAMING TO BEAM IN SHOP.
BM11	200PFC	PLANT PLATFORM PERIMETER BEAM
BM12	250PFC	PLANT PLATFORM PERIMETER BEAM
FC1	300PFC	CANOPY FASCIA. WELD 50x3 MSPL TO TOP FLANGE.
FJ1	C15015	PLANT PLATFORM JOISTS AT 600 CTS
OR1	100x100x5.0SHS	OUTRIGGER. FULLY WELDED TO C1 & SC2 IN SHOP.
R1	200x100×5.0 RHS	1300 DEEP OWJ. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 5 F/B.
R2	200x100×5.0 RHS	OWJ. SIMILAR TO R1 EXCEPT HORIZONTAL BOTTOM CHORDS. 200x100x5 RHS T&B CHORDS. 150x50x3 RHS WEBBING. 12 MSPL END PL WITH 4M20 HS BOLTS PER/ CHORD. 3 F/B.
R3	310UB40	RAFTER. 2 F/B.
R4	360UB45	RAFTER. 3 F/B.
R5	410UB54	RAFTER. 3 F/B.
R6	250PFC	RAFTER.
R7	360UB45	RAFTER. 2 F/B.
R8	200UB22	RAFTER.
R9	360UB51	RAFTER.
R10	200UB18	RAFTER.
R11	100x50x3.0 RHS	CANOPY RAFTER. WELD TO FC1. 10 MSPL END PL WITH 2M20 HS BOLTS INTO CAST IN FERRULES IN PC PANEL.
R12	200UB18	END WALL RAFTER.
RB1	90 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB2	75 x 6 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB3	75 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
RB4	65 x 5 EA	ROOF CROSS BRACING. HUNG FROM PURLINS. CROSSED & BOLTED AT MIDSPAN. 2M20 HS BOLTS EACH END.
S1	150x150x5.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S2	125x125x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
S3	100x100x4.0SHS	ROOF STRUT. 10 MSPL TONGUE & END PL WITH 2M20 HS BOLTS EACH END.
WA1	75x75x8EA	WALL ANGLE. 1M20 BOLT INTO CAST IN FERRULE, AT 900 CTS.
WA2	75x75x8EA	ANGLE. WELD TO BM1 WEB IN SHOP. 100 HIT / 200 MISS.
WA3	100x100x6EA	BRACKET. 2M20 BOLTS INTO CAST IN FERRULES.
WA4	125x75x8UA	WALL ANGLE. BOLT TO Ex.PC PANEL WALL WITH 1M20 DYNABOLT AT EVERY PURLIN & AT END.
WB1	200PFC	WALL BEAM. (ON FLAT) 1M20 BOLT AT 750 CTS, INTO CAST IN FERRULES IN PC PANEL WALL
WBR1	90 x 6 EA	WALL BRACING. REFER TYP. BRACING DETAILS ON SHT: S08-3
WH1	150PFC	WINDOW HEAD. (ON FLAT)
WH2	150PFC	WINDOW HEAD. (ON END)

Purlin / Girt Schedule

Mark	Type	Comments
F1	C15015	FASCIA FRAMING. T&B & INTERMEDIATE. 1200 MAX SPACING.
G1	150x100×5.0 RHS	GYM WALL GIRTS.
P1	Z20015	GYM ROOF PURLINS. 1300 MAX END SPACING. 1500 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 1 ROW OF BRIDGING.
P2	Z20015	ROOF PURLINS. 900 MAX END SPACING. 1200 MAX MID SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 900 MIN LAPS. 2 ROWS OF BRIDGING.
P3	Z10015	CANOPY ROOF PURLINS. 900 MAX SPACING. CONTINUOUS OVER 2 OR MORE SPANS. 600 LAPS.
P4	C20015	ROOF PURLIN. BOLTED TO INSIDE OF PC PANEL. 1M12 BOLT AT 900 CTS.
P5	C20015	TRIMMERS FIXED BETWEEN PURLINS WITH GP BRACKETS & 2M12 BOLTS P/CONN.
P6	C10015	CANOPY BOX GUTTER PURLIN
RAKING GIRT-1	C20015	RAKING GIRT. ON END. FIXED AT EACH PURLIN.

Issue	Amendments	Date
6	Issued for Building Rules Consent	30/06/22
5	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
4	Updated Plans - Issued for Review	06/05/22
3	Updated Plans - Work in progress.	30/03/22
2	Updated Plans issued for review.	24/03/22
1	Updated Plans issued for review.	18/03/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

STEELWORK SECTIONS-SHEET 9

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : 02/02/22

Drawn : -

Scale : 1 : 100 (@ A1) or (@ A3)

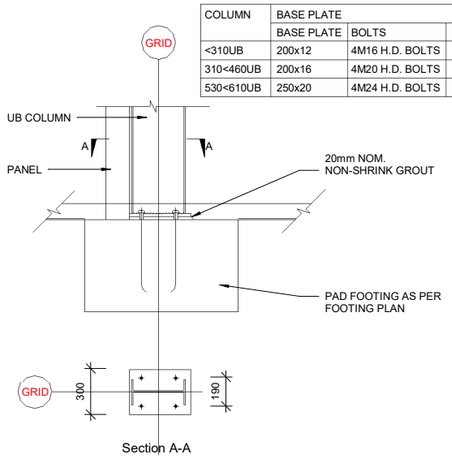
Project Number : 0419

 Drawing Number S06-13.6

Not for Construction until approved by Statutory Authorities

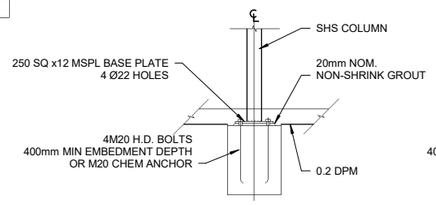
Contractors must verify all dimensions at the job before commencing work or making shop drawings.

COLUMN	BASE PLATE		
	BASE PLATE	BOLTS	EMBEDMENT (MIN.)
<310UB	200x12	4M16 H.D. BOLTS	400
310<460UB	200x16	4M20 H.D. BOLTS	500
530<610UB	250x20	4M24 H.D. BOLTS	500



SD-1 - Typical Main Frame Column Base Plate Detail

NTS



SD-2 - 100 or 89 SHS Column Base Plate Detail

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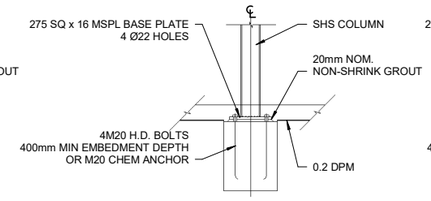

SD-3 - 125 SHS Column Base Plate Detail

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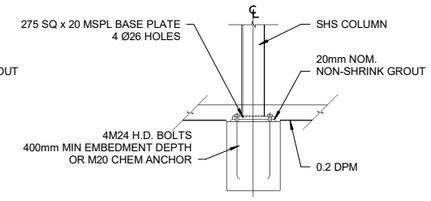

SD-4 - 150 SHS Column Base Plate Detail

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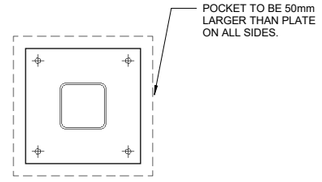
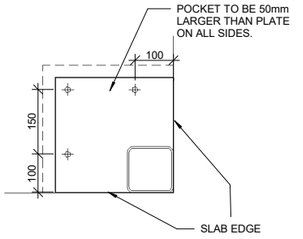


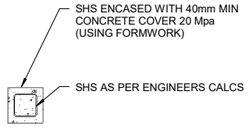
SD-5 - Typical Internal SHS Column Base Plate

NTS



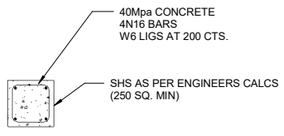
SD-6 - Typical SHS Column Base Plate At Slab Edge/Corner

NTS



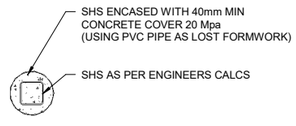
SD-8 - 120/120/120 Fire Rated Column Detail Option 1

NTS



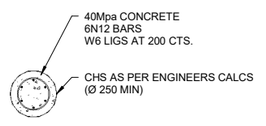
SD-9 - 120/120/120 Fire Rated Column Detail Option 2

NTS



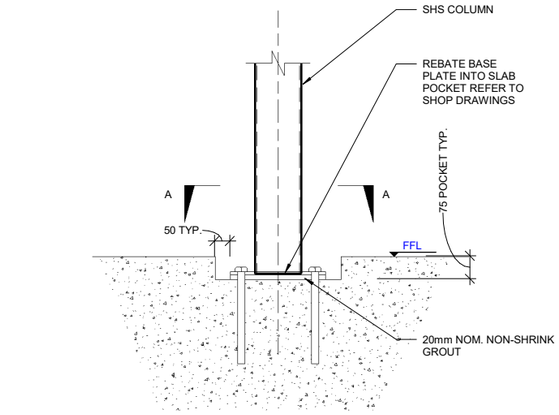
SD-10 - 120/120/120 Fire Rated Column Detail Option 3

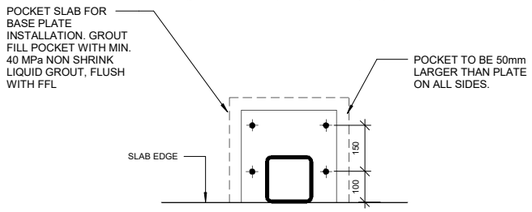
NTS



SD-11 - 120/120/120 Fire Rated Column Detail Option 4

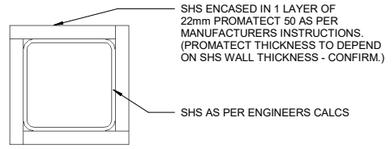
NTS





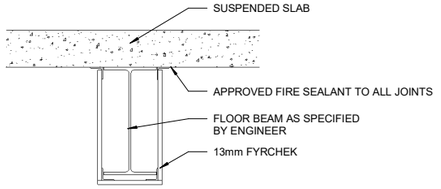
SD-7 - Typical SHS Column Base Plate at Slab Edge Detail

NTS



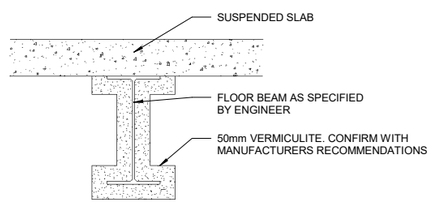
SD-12 - 120/120/120 Fire Rated Column Detail Option 5

NTS



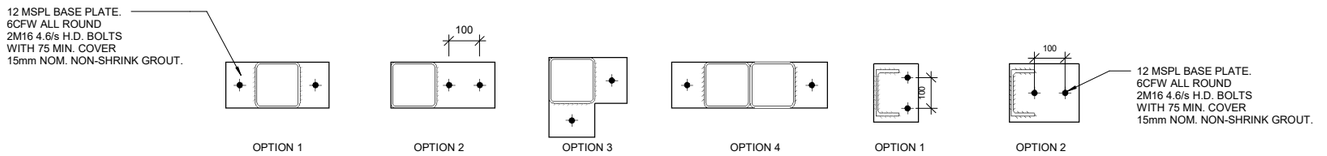
SD-13 - 30/30/30 Fire Rated Floor Beam Detail Option 1

NTS



SD-14 - 30/30/30 Fire Rated Floor Beam Detail Option 2

NTS



SD-15 - Typical SHS, RHS & PFC Plate Details

NTS

Issue	Amendments	Date
3	Issued for Building Rules Consent	30/06/22
2	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
1	Updated Plans - Issued for Review	06/05/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

TYPICAL STEEL DETAILS - SHEET 1

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : -

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S08-1.3

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

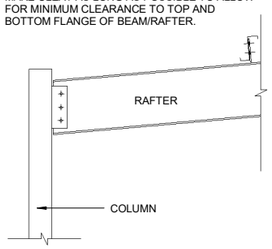
19/07/2022 2:27:31 PM

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

BEAM	CLEAT	BOLTS
UP TO 310	100x10	2M20 8.8/s
310 TO 460	100x12	3M20 8.8/s

MAKE CLEAT AS LONG AS POSSIBLE TO ALLOW FOR MINIMUM CLEARANCE TO TOP AND BOTTOM FLANGE OF BEAM/RAFTER.

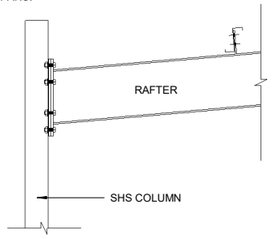


SD-16 - Typical Rafter to Column Detail

NTS

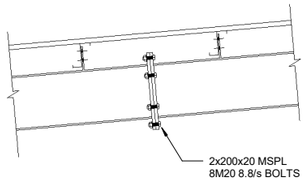
BEAM	KNEE PLATES	BOLTS
UP TO 250	2x150x16	4M16 8.8/s
310 TO 360	2x200x16	4M20 8.8/s
410 TO 460	2x200x16	4M20 8.8/s

NOTE: FOR SHS COLUMNS, WIDTH OF PLATES TO BE WIDER TO CLEAR BOLTS. CHECK IF EXTRA BOLTS REQUIRED FOR LARGER SPANS.



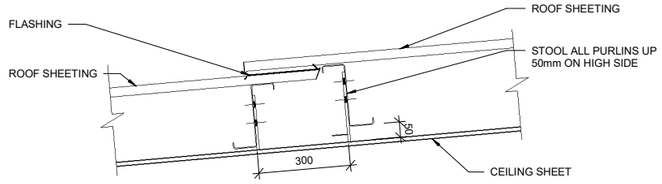
SD-17 - Typical Knee Detail

NTS



SD-18 - Typical Rafter Splice Detail

NTS



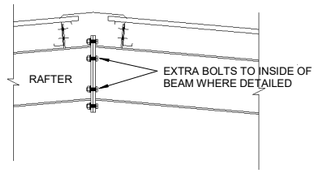
NOTE: ONLY REQUIRED WHEN SHOWN ON ARCH. ROOF PLANS, WHEN ROOF SHEETING LENGTH EXCEEDS TRANSPORT REQUIREMENTS.

SD-19 - Typical Roof Sheeting Joint Expansion Roof Detail

NTS

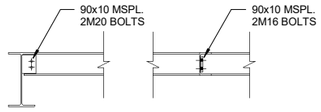
BEAM	KNEE PLATES	BOLTS
UP TO 250	2x150x16	4M16 8.8/s
310 TO 360	2x200x16	4M20 8.8/s
410 TO 460	2x200x16	4M20 8.8/s

NOTE: CHECK IF EXTRA BOLTS REQUIRED FOR LARGER SPANS.



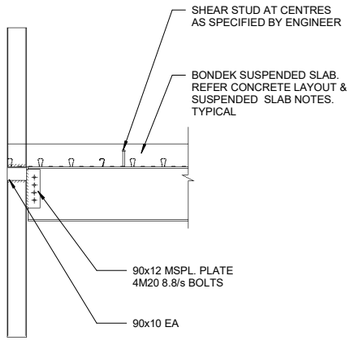
SD-20 - Typical Apex Detail

NTS

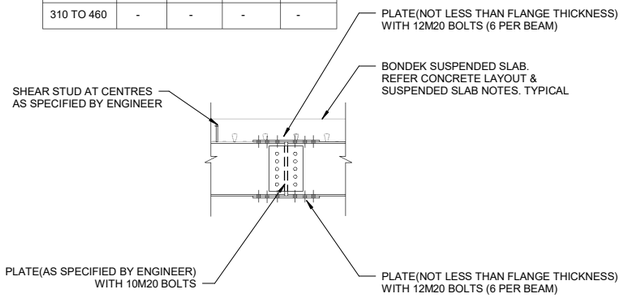


SD-23 - Typical Floorbeam Connection Details

NTS



BEAM	CLEAT		BOLTS	
	WEB	FLANGE	WEB	FLANGE
UP TO 310	-	-	-	-
310 TO 460	-	-	-	-

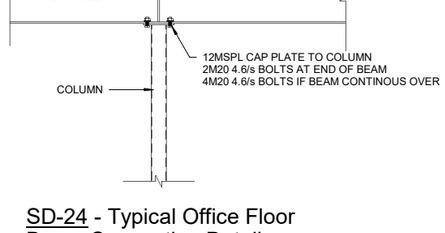


SD-21 - Floor Beam End Column Detail

NTS

SD-22 - Floor Beam Splice Detail

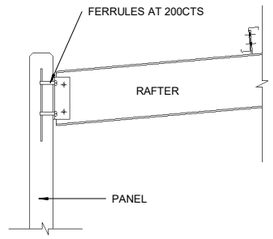
NTS



SD-24 - Typical Office Floor Beam Connection Detail

NTS

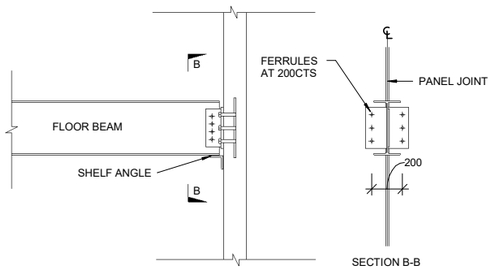
BEAM	T-PLATE			
	WALL PLATE	FERRULES	CLEAT	BEAM BOLTS
UP TO 310	270x10	4M20	100x10	2M20 8.8/s
310 TO 460	270x12	6M20	100x10	3M20 8.8/s



SD-25 - Rafter to Panel Detail

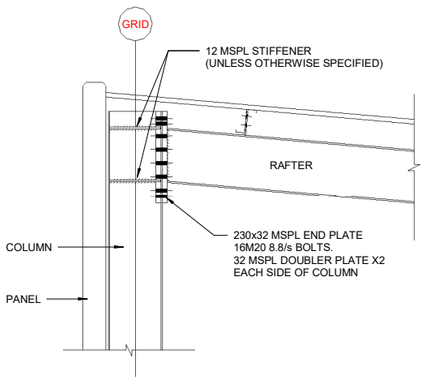
NTS

BEAM	T-PLATE			
	WALL PLATE	FERRULES	CLEAT	BOLTS
UPTO 310	270x12	4M20	10mm	2M20 8.8/s
310 TO 460	270x16	6M20	12mm	4M20 8.8/s
530	270x16	8M20	12mm	6M20 8.8/s



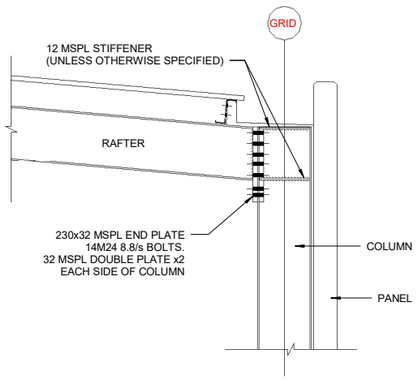
SD-26 - Floor Beam/Panel Connection Detail

NTS



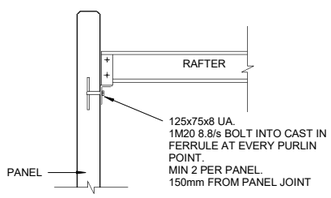
SD-27 - Typical Main Frame Rafter Apex Detail

NTS



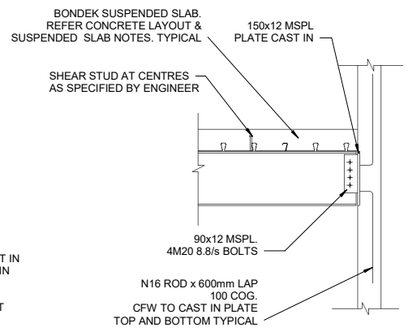
SD-28 - Typical Main Frame Rafter Low Point Detail

NTS



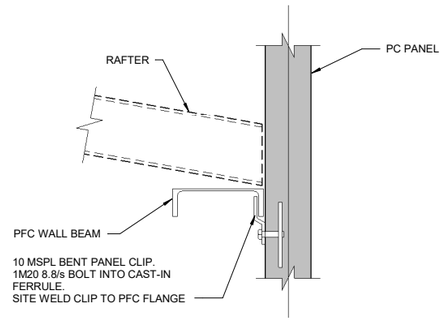
SD-29 - Raking Endwall Rafter-Panel Detail

NTS



SD-30 - Floor Beam Panel Face Detail Option 1

NTS



SD-31 - Typical Wall Beam/ Clip Detail

NTS

Issue	Amendments	Date
3	Issued for Building Rules Consent	30/06/22
2	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
1	Updated Plans - Issued for Review	06/05/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

TYPICAL STEEL DETAILS - SHEET 2

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : -

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S08-2.3

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

Not for Construction until approved by Statutory Authorities

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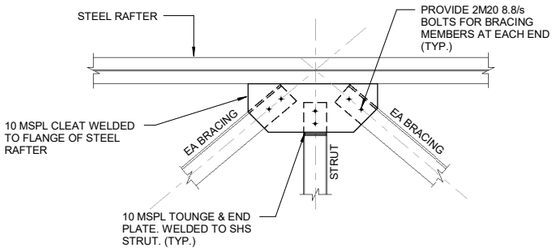
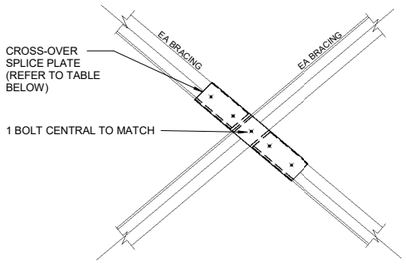
When sheet printed @ A1, the scale bar is 100mm.

0 50 100



SD-32 - Typical EA Roof Bracing Detail

NTS

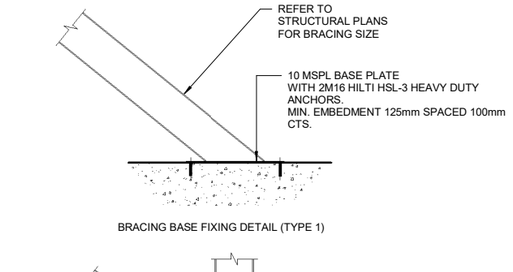


NOTE:
SHOP WELDING SPLICE PLATE TO ANGLE BRACE IS AN ALTERNATIVE TO BOLTING.

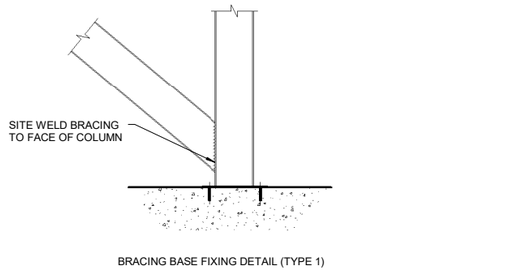
BRACING ANGLE	SPLICE PLATE
50x6 EA, 55x6 EA	75x10 FLAT
65x6 EA	75x10 FLAT
75x8 EA	100x12 FLAT
90x8 EA	130x12 FLAT
90x10 EA	150x12 FLAT
100x8 EA	150x12 FLAT
100x10 EA	130x16 FLAT
125x10 EA	150x16 FLAT
150x10 EA	200x16 FLAT

SD-33 - Angle Bracing Cross-Over Detail

NTS



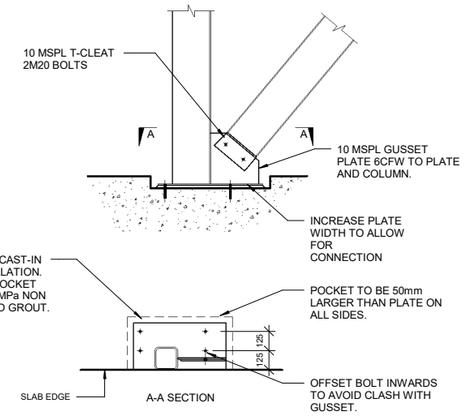
BRACING BASE FIXING DETAIL (TYPE 1)



BRACING BASE FIXING DETAIL (TYPE 1)

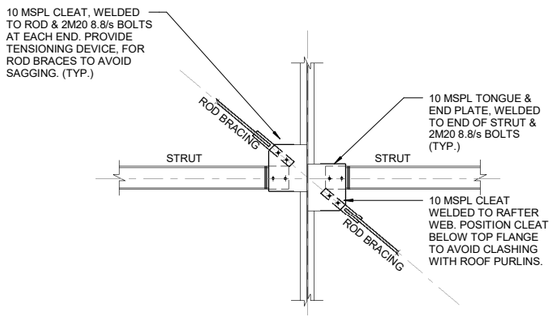
SD-34 - Base Fixing Details (Bracing)

NTS



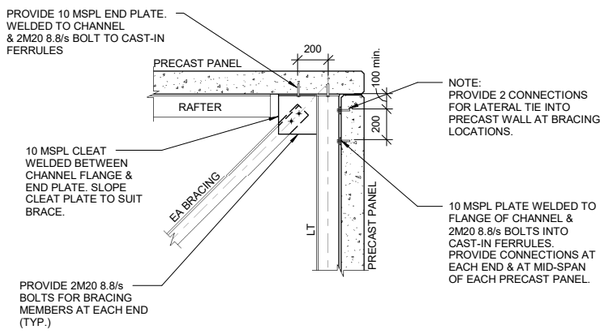
SD-35 - Base Fixing Pocket Detail (Bracing)

NTS



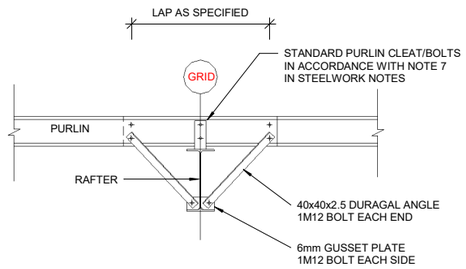
SD-38 - Typical Rod Roof Bracing Detail

NTS



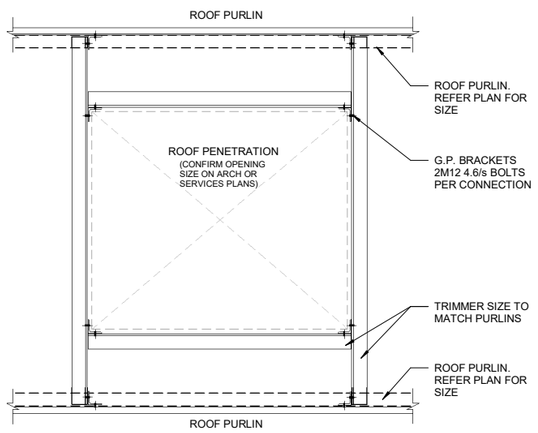
SD-37 - Typical Precast Bracing Detail

NTS



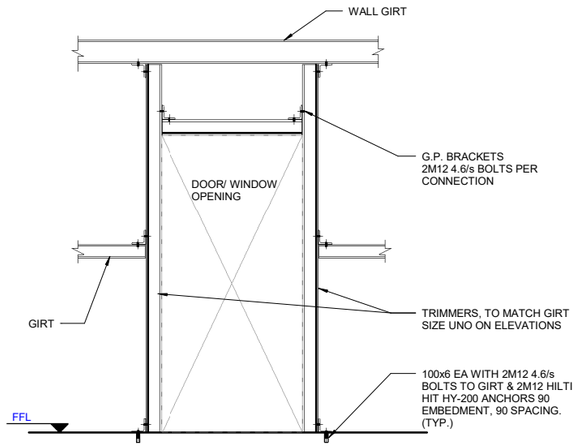
SD-36 - Typical Flybrace Detail

NTS



SD-39 - Typical Roof Penetration Trimmer Detail

NTS



SD-40 - Typical Door/ Window Trimmer Detail

NTS

19/07/2022 2:27:33 PM

When sheet printed @ A1, the scale bar is 100mm.

0 50 100

Issue	Amendments	Date
3	Issued for Building Rules Consent	30/06/22
2	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
1	Updated Plans - Issued for Review	06/05/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

TYPICAL STEEL DETAILS - SHEET 3

TONKIN design SCHUTZ build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : -

Drawn : -

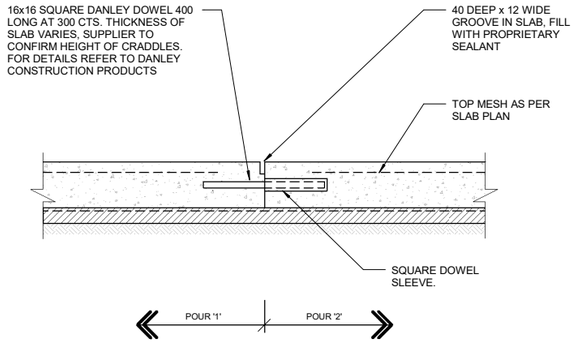
Scale : 1 : 20 (@ A1) or (@ A3)

Project Number : 0419

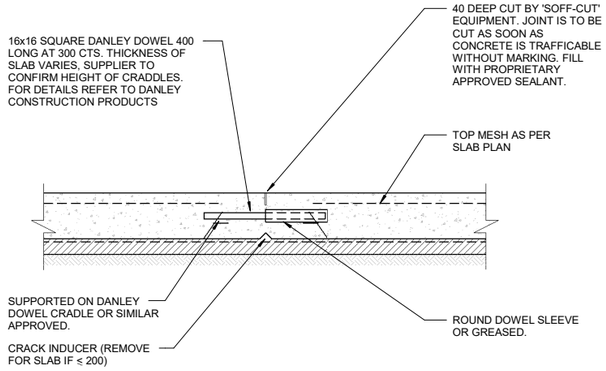
 Drawing Number : S08-3.3

Not for Construction until approved by Statutory Authorities

Contractors must verify all dimensions at the job before commencing work or making shop drawings.



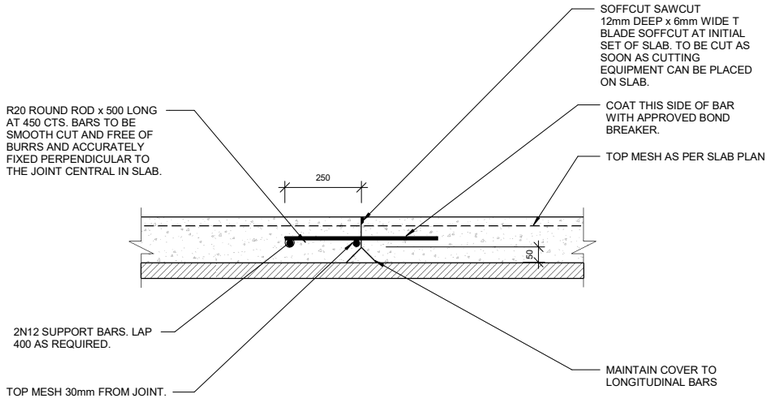
(WHERE SLAB POUR IS STAGED)



(WHERE SLAB POUR IS CONCURRENT)

CD-1 - Dowelled Slab Joint Detail (D.J)

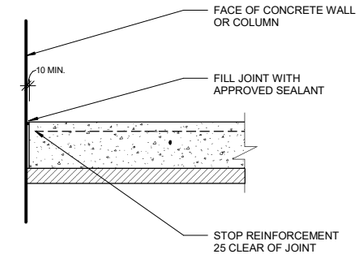
NTS



NOTES:
1. SAW CUT TO BE MADE WITHIN 24 HOURS OF FINISHING SLAB (20mm DEEP x 6mm WIDE).
2. PROTECT JOINT FROM DIRT PENETRATION BY COVERING WITH TAPE AFTER SAW CUTTING.

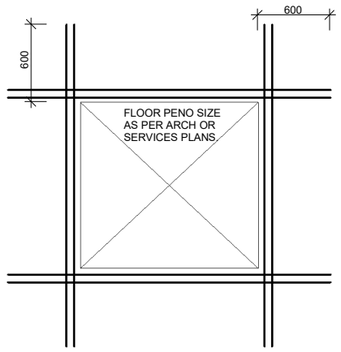
CD-2 - Saw Cut Joint Detail (S.C.J)

NTS



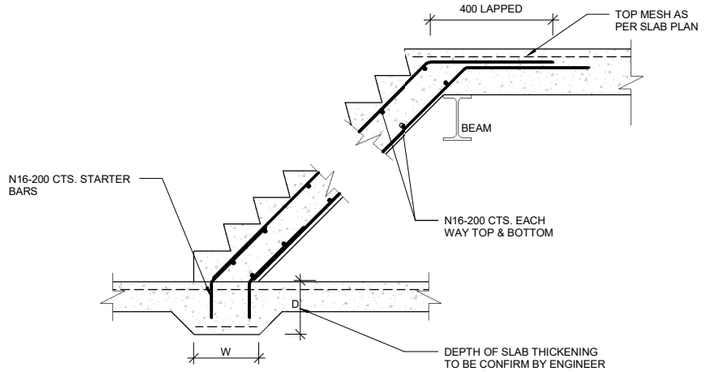
CD-3 - Isolation Joint (IJ) Alternative Construction Joint Detail

NTS



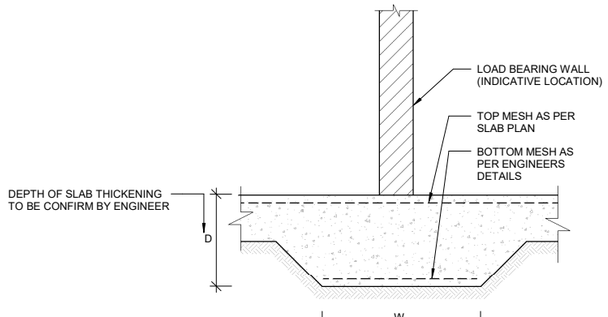
CD-12 - Penetrations in Floor Slab Detail

NTS



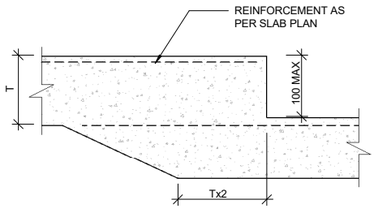
CD-4 - Typical Concrete Stair Detail

NTS



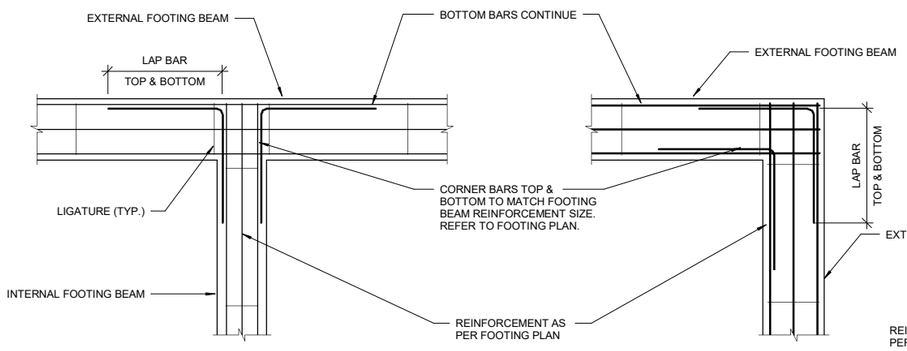
CD-5 - Typical Slab Thickening Detail

NTS



CD-6 - Slab On Ground Setdowns Detail

NTS



'T' INTERSECTION

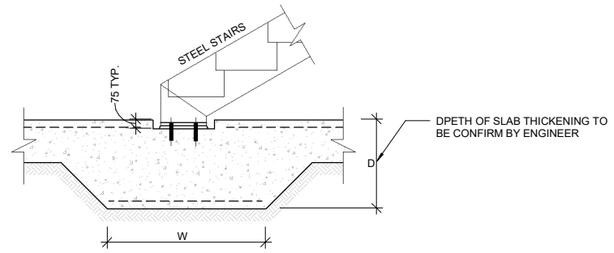
AT CORNER

NOTES:
1. REINFORCING BARS ARE INDICATIVE ONLY.
2. REFER TO SLAB PLAN FOR REBATE LOCATIONS & DEPTHS.

BEAM REINFORCEMENT:	BAR LAP (mm)
N12	600
N16	900
N20	1000

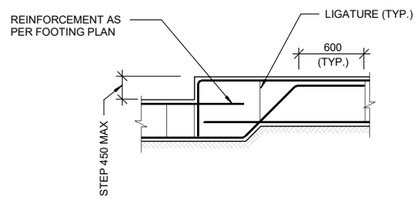
CD-11 - Typical Beam Junction Detail

NTS



CD-10 - Steel Stair Base PL. / Slab Thickening Detail

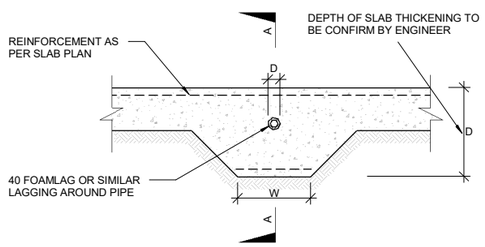
NTS

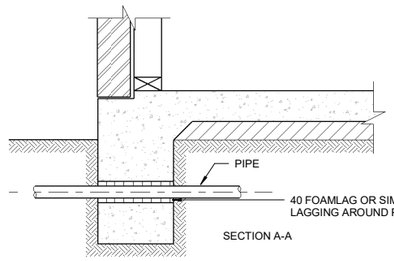


FOR STEPS LESS THAN 450mm

CD-7 - Strip Footing Step Detail

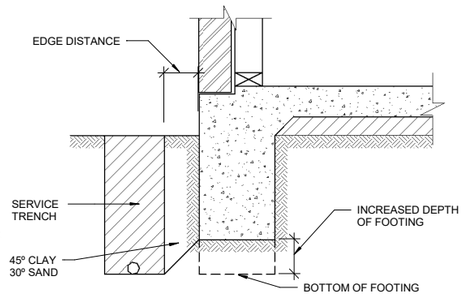
NTS





CD-9 - Beam Penetration Details

NTS



CD-8 - Service Trench - Footing Detail

NTS

Issue	Amendments	Date
3	Issued for Building Rules Consent	30/06/22
2	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
1	Updated Plans - Issued for Review	06/05/22

Project

BCCC Stage 6 - Gym + GLA

14 Boucaut Avenue, Blakeview. S.A. 5144

Drawing

TYPICAL CONCRETE DETAILS

TONKIN SCHUTZ design build

16-22 Erudina Ave, Edwardstown S.A. 5039
Ph (08) 8277 0111
Fax(08) 8277 2255
Commercial - Industrial - Domestc

Date : -

Drawn : -

Scale : As indicated (@ A1) or (@ A3)

Project Number : 0419

 Drawing Number : S08-4.3

Contractors must verify all dimensions at the job before commencing work or making shop drawings.

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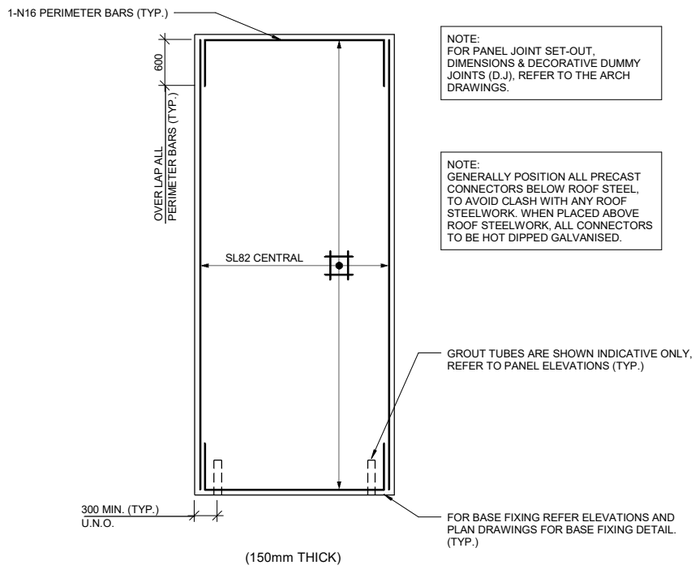
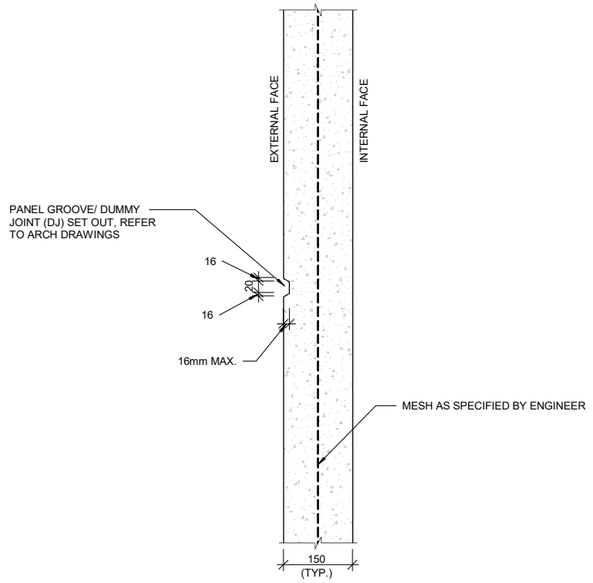
PANELS	THICKNESS	REINFORCEMENT	PERIMETER BARS	CONCRETE STRENGTH	REMARK
P1	150	SL82 CENTRAL	N16	32	FOR ADDITIONAL REINFORCEMENT REFER TO BELOW PANEL DETAIL.
P2	200	SL82 EACH FACE	N16	32	



(150mm THICK)

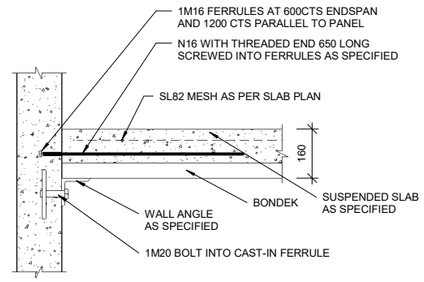
PC-1 - Typical Panel Detail

NTS



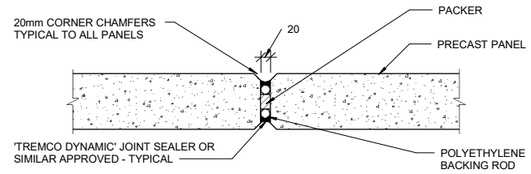
PC-2 - Typical Groove/Dummy Joint (D.J) in Concrete Panel Detail

NTS



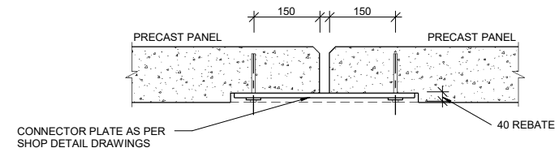
PC-3 - Bondek/Panel Junction Detail

NTS



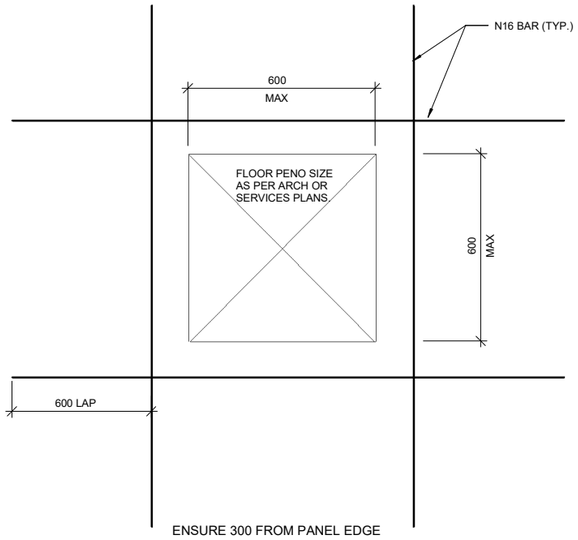
PC-6 - Typical Panel Joint Detail

NTS



PC-7 - Connection Type 'A' Detail (Where Exposed)

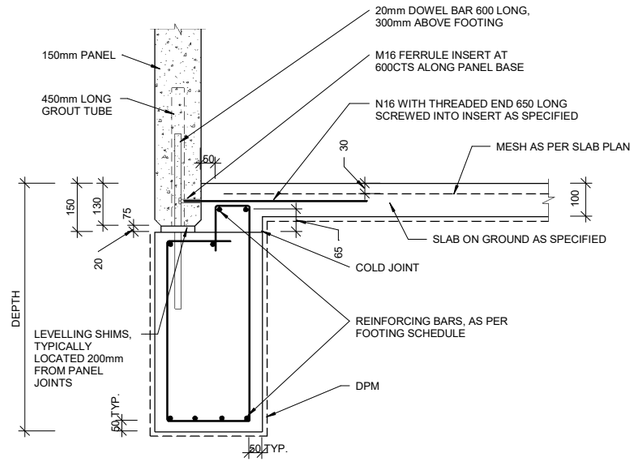
NTS



ENSURE 300 FROM PANEL EDGE

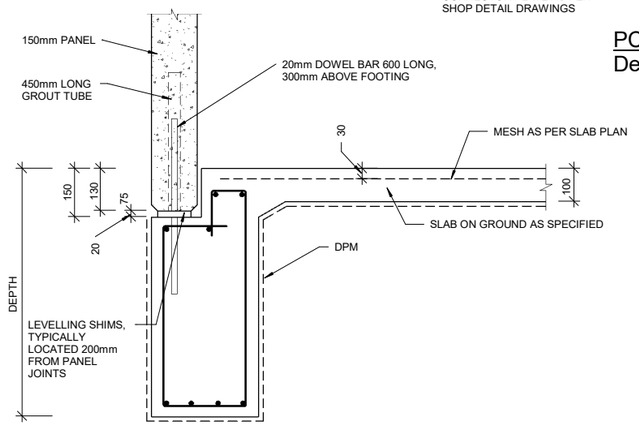
PC-10 - Typical Small Penetration Detail

NTS



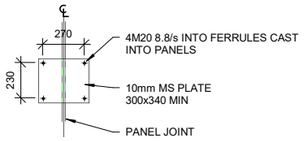
PC-4 - Typical 100mm Strip Footing Slab Panel Rebate Detail

NTS



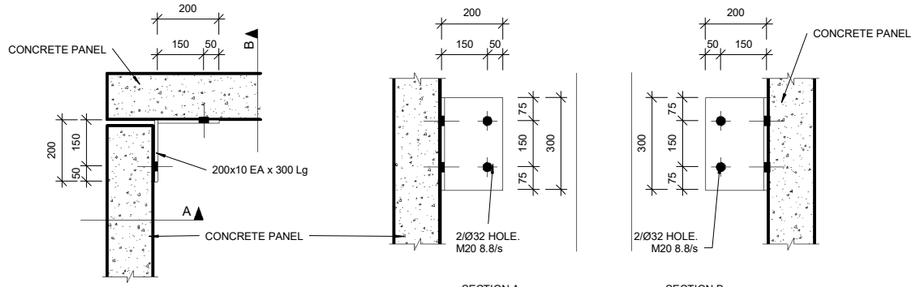
PC-5 - Typical 100mm Raft Slab Panel Rebate Detail

NTS



PC-8 - Typical Panel Connection

NTS



PC-9 - Panel Corner Connection Detail

NTS

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Issue	Amendments	Date
3	Issued for Building Rules Consent	30/06/22
2	Structural drawings updated to match Updated Finalised Structural Engineer's Calculations.	13/05/22
1	Updated Plans - Issued for Review	06/05/22

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Drawing

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