

Dear Sarah,

Re: Structural Design and Construction Report – Zone A

Project: Greystanes Public School (PS)

Client: Icon SI (Aust) Pty Ltd

Location: 781 Merrylands Road
Greystanes NSW 2145

Drawing No: • S001-A, S025-C, S040-B, S050-A, S060-A, S080-B, S100-E, S105-A, S106-F, S110-B, S115-B, S116-B, S117-B, S118-B.

Elements: • Footings (including bored piers), slabs on ground, retaining walls, masonry walls, structural steel framing (excluding lightweight stud and truss framing for admin building, by others)

Builder: ICON

We confirm that the design of the above elements has been carried out in accordance with the provisions of the following latest Australian Standards according to BCA 2019:

- AS/NZS 1170 Structural Design Actions
 - Part 0 – General principles 2002
 - Part 1 – Permanent, Imposed and other actions 2002
 - Part 2 – Wind actions 2011
 - Part 4 – Earthquake actions in Australia 2007.
- AS 4100 Steel Structures 2020
- AS 3600 Concrete Structures 2018
- AS 3700 Masonry Structures 2018
- AS 2870 Residential Slabs and Footings 2011
- AS 4678 Earth Retaining Structures 2002

We confirm that the computations for the design have been carried out by a practicing qualified Structural Engineer. The above works have been designed for an importance level 3 in accordance with BCA Cl. B1.2 and fire resistance periods in accordance with the requirements of BCA Spec C1.1 and as nominated by the architect.

The above foundations have been designed in accordance with the geotechnical parameters set out in the J&K Geotechnical report (30431Srpt, dated 24.06.2017). Note that no shoring designs are required, and hence no anchoring systems designed.

We confirm that during construction periodic site visits were carried out to verify compliance with our structural design requirements. The findings of these site visits are detailed in our Site Visit Reports a copy of which was given to the builder at the time of the site visit. At the time of our visit the above elements were found to be generally in accordance with our design specification and documentation subject to the instructions noted in the site report.

Yours sincerely,



Anthony Down

Structural Manager

Chartered Professional Engineer - 2873243

MIEAust, CPEng, NER, APEC Engineer, IntPE (Aus)

SITE VISIT REPORT / SITE INSTRUCTION

Project:	Greystanes PS		
Client:	Icon		
Location:	Merrylands Rd		
Attn:	Rob Dixon	Date:	22/07/20
		Project No:	N0200031

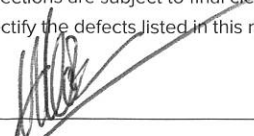
Inspection: OSD Base Slab - Block A Report No: SRPT - 2020.07.22

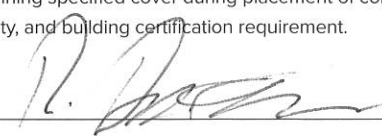
Having inspected Block A OSD Base Slab, our instructions are

- 1) Mesh to be lapped 300 mm min.
Extend / relocate mesh as required.
- 2) Starter bars for Drisel wall @ perimeter & @ sump pit not installed yet.
- 3) 'Z' Bars around sump pit not installed yet
- 4) Clean perimeter area from natural soil / gravel to ensure cover maintained to edge beams (side + bottom cover)

Photos required for the above. Please send to Azorex to JN

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer: 

Site Rep: 

Sarah Britton ICON	Zone A - OSD Tank Report Inspection GENERAL CORRESPONDE...	23/07/2020 ICONCO-GCOR-003035
Sarah Britton ICON	Re: Zone A - OSD Tank Report Inspection GENERAL CORRESPONDE...	23/07/2020 ICONCO-GCOR-003038
Chris Guild JN CONSULTING ENGINEERS	Re: Zone A - OSD Tank Report Inspection GENERAL CORRESPONDE...	23/07/2020 JN-GCOR-000827

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
General Correspondence	JN-GCOR-000827	ICONCO-GCOR-003035

Re: Zone A - OSD Tank Report Inspection

From	Mr Chris Guild - JN Consulting Engineers
To	Ms Sarah Britton - Icon
Cc (2)	Mr Robert Dixon - Icon (+1 more...)
Sent	Thursday, 23 July 2020 8:52:38 AM AEST (GMT +10:00)
Status	N/A

DETAILS

Job Name	Greystanes Public School
----------	--------------------------

MESSAGE

Thanks Sarah,

Confirming this closes out the report.

Regards,

Chris

From: S Britton
Sent: 23/07/2020 8:32:35 AM AEST (GMT +10:00)
To: Chris Guild
Cc: Robert Dixon, Nicholas Gannon
Mail Number: ICONCO-GCOR-003035
Subject: Zone A - OSD Tank Report Inspection

Job Name:	Greystanes Public School
------------------	--------------------------

Hello Chris,

Please see attached inspection report and photos for Zone A OSD tank slab. Please advise if this closes out the inspection report carried out by JN on 22.7.2020.

Kind Regards,
Sarah

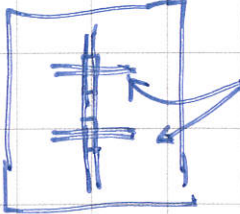
SITE VISIT REPORT / SITE INSTRUCTION

Project:	Greystanes RS		
Client:	ICON		
Location:	Merrylands Rd. Greystanes		
Attn:	Rob Dixon	Date:	12/08/2020
		Project No:	N0200031

Inspection: ASD Tank Lid Slab Report No: 16

JN Engineer Melvin Baeha inspected lid slab reinf.
Our instructions are as follows.

- 1) Install 2N12 trimmer bars @ top every re-entrant corner how long.
- 2) Install additional 2N16 Bars (1500 long) on top of dished wall @ middle part of ASD Both ways



Photos are required.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer:

[Signature]

Site Rep:

[Signature]

Sarah Britton
ICON

OSD Tank Lid - Zone A Inspection Report
GENERAL CORRESPONDE...

13/08/2020
ICONCO-GCOR-003666

Melvin Baeha
JN I CONSULTING ENGINEERS

Re: OSD Tank Lid - Zone A Inspection Report
CONSULTANT ADVICE

13/08/2020
JN-CADV-000063

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
Consultant Advice

MAIL NUMBER
JN-CADV-000063

REFERENCE NUMBER
ICONCO-GCOR-003666

Re: OSD Tank Lid - Zone A Inspection Report

From Melvin Baeha - JN I Consulting Engineers

To (2) Ms Sarah Britton - Icon (+1 more...)

Cc Mr Nicholas Gannon - Icon

Sent Thursday, 13 August 2020 8:52:03 AM AEST (GMT +10:00)

Status N/A

DETAILS

Job Name Greystanes Public School

MESSAGE

Hi Sarah,

Thank you for sending this to us.

It appears the outstanding items have been rectified as per our site instruction report.

Regards,

Melvin Baeha
JN

From: S Britton
Sent: 13/08/2020 7:26:38 AM AEST (GMT +10:00)
To: Chris Guild
Cc: Nicholas Gannon
Mail Number: ICONCO-GCOR-003666
Subject: OSD Tank Lid - Zone A Inspection Report

Job Name:	Greystanes Public School
------------------	--------------------------

Hello Chris,

Please see inspection report attached for the OSD tank lid in Zone A carried out on 12.8.2020. Please see attached photos, can you advise if the photos close out the report?

Thanks

Kind Regards,
Sarah

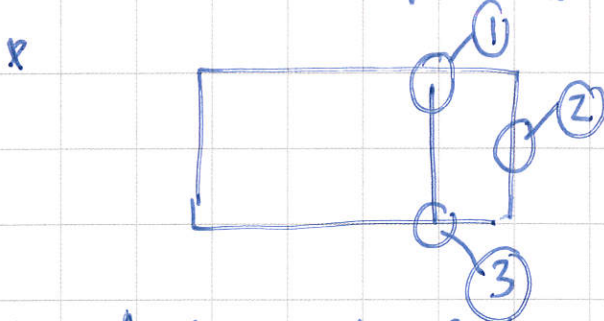
SITE VISIT REPORT / SITE INSTRUCTION

Project:	Greystanes PS		
Client:	ICON		
Location:	804 Merrylands Rd		
Attn:	Rob	Date:	04/08/20
		Project No:	N020031

Inspection: OSD Wall Reinforcements Report No: N020031 - spt-2020.08.04

Having inspected OSD Wall Reinforcements, our instructions are:

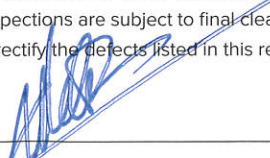
- 1) At 'T' Junctions of Drilled wall, install vertical bars w/'U' horizontal bars @ 300 centres



- 2) Add vertical bar & 'L' Bar N16 at this location
- 3) 'U' Bar @ top need to extend all the way to long wall elevation.

Photos are required for all above.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer:  Site Rep: 

8/7/2020Aconex		
Sarah Britton ICON	Zone A OSD Tank Walls GENERAL CORRESPONDE...	YESTERDAY ICONCO-GCOR-003467
Chris Guild JN CONSULTING ENGINEERS	Re: Zone A OSD Tank Walls GENERAL CORRESPONDE...	YESTERDAY JN-GCOR-000903
Sarah Britton ICON	Re: Zone A OSD Tank Walls GENERAL CORRESPONDE...	12:57 PM ICONCO-GCOR-003525
Chris Guild JN CONSULTING ENGINEERS	Re: Zone A OSD Tank Walls GENERAL CORRESPONDE...	1:54 PM JN-GCOR-000912

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
General Correspondence	JN-GCOR-000912	ICONCO-GCOR-003467

Re: Zone A OSD Tank Walls

From	Mr Chris Guild - JN Consulting Engineers
To	Ms Sarah Britton - Icon
Cc (2)	Mr Robert Dixon - Icon (+1 more...)
Sent	Friday, 7 August 2020 1:54:21 PM AEST (GMT +10:00)
Status	N/A

DETAILS

Job Name	Greystanes Public School
----------	--------------------------

MESSAGE

Thanks Sarah,

Confirming this closes out the report.

Regards,

Chris

From: S Britton
Sent: 07/08/2020 12:57:46 PM AEST (GMT +10:00)
To: Chris Guild
Cc: Robert Dixon, Nicholas Gannon
Mail Number: ICONCO-GCOR-003525

Subject: Re: Zone A OSD Tank Walls

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

To confirm the lap length of the straight bars installed are min 750mm for the walls as per structural documentation.

Please confirm this closes out the report.

Thanks

Kind Regards,
Sarah

From: C Guild

Sent: 06/08/2020 1:03:55 PM AEST (GMT +10:00)

To: Sarah Britton

Cc: Nicholas Gannon

Mail Number: JN-GCOR-000903

Subject: Re: Zone A OSD Tank Walls

Job Name:	Greystanes Public School
------------------	--------------------------

Thanks Sarah,

Generally looks ok, can you confirm the lap length on the straight bars for the wall?

Regards,

Chris

From: S Britton

Sent: 06/08/2020 7:47:03 AM AEST (GMT +10:00)

To: Chris Guild

Cc: Nicholas Gannon

Mail Number: ICONCO-GCOR-003467

Subject: Zone A OSD Tank Walls

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached photos for Zone A OSD walls to close out inspection report carried out by JN on 4.8.2020. Please can you advise if this now closes out the inspection report?

Kind Regards,
Sarah

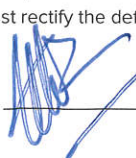
SITE VISIT REPORT / SITE INSTRUCTION

Project:	Greystanes PS		
Client:	ICON		
Location:	Merrylands Rd		
Attn:	Rob	Date:	26/08/20
		Project No:	N0200031

Inspection: Zone A-RW2 & RW4 Ref Wall Footing Report No: N0200031-16-2020-08-26

- Having inspected the above structure, our instructions are:
- ① Install top mesh 800 wide SLS2 mesh between the joint footing of RW2 & RW4 all the way from one end to edge of OSD tank.
Alternatively lap N16 top bars of RW2 & RW4 and install 1N16 horizontal bars perpendicular.
 - ② Install 2N16 Bars (T&B) at edge of OSD 
 - ③ Install 2N12 Trimmer Bars around Pit
 - ④ Install 3N16 Dowel Bars (1N16 @ 300 c/s) at location of pit to OSD wall - 100 mm embedment w/ Hilti HIT HY-200 N16 'U' Bar. to Dintel wall
 - ⑤ Ensure Bars not laying on ground, provide sufficient area
 - ⑥ Clean Dintel wall surface at location of RW4 footing

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer: 

Site Rep: 

Sarah Britton ICON	Zone A - Retaining Wall/Retain Wall Footings - Close o... GENERAL CORRESPONDE...	01/09/2020 ICONCO-GCOR-004261
Sarah Britton ICON	Re: Zone A - Retaining Wall/Retaining Wall Footings - ... GENERAL CORRESPONDE...	09/09/2020 ICONCO-GCOR-004499
Sarah Britton ICON	Re: Zone A - Retaining Wall/Retaining Wall Footings - ... GENERAL CORRESPONDE...	15/09/2020 ICONCO-GCOR-004668
Melvin Baeha JN I CONSULTING ENGINEERS	Re: Zone A - Retaining Wall/Retain Wall Footings - Clo... CONSULTANT ADVICE	15/09/2020 JN-CADV-000071

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Consultant Advice	JN-CADV-000071	ICONCO-GCOR-004261

Re: Zone A - Retaining Wall/Retain Wall Footings - Close out photos

From	Melvin Baeha - JN I Consulting Engineers
To	Ms Sarah Britton - Icon
Cc (2)	Mr Nicholas Gannon - Icon (+1 more...)
Sent	Tuesday, 15 September 2020 9:09:15 AM AEST (GMT +10:00)
Status	N/A

DETAILS

Job Name	Greystanes Public School
----------	--------------------------

MESSAGE

Hi Sarah,

Apologise for the late reply. I thought I replied this before but it turns out not the case.

I have reviewed all the photos you sent me and confirm that the rectifications carried out on site has followed my site instruction dated 26/08/2020.

OK to close this item.

Regards,

Melvin Baeha
JN

From: S Britton
Sent: 01/09/2020 9:23:04 AM AEST (GMT +10:00)
To: Melvin Baeha
Cc: Nicholas Gannon, Chris Guild
Mail Number: ICONCO-GCOR-004261
Subject: Zone A - Retaining Wall/Retain Wall Footings - Close out photos

Job Name:	Greystanes Public School
------------------	--------------------------

Hello Melvin,

Please see attached photos to close out inspection report carried out on 26.8.2020 for Zone A Retaining Wall/Retaining Wall Footings.

Please can you confirm this closes out the inspection carried out on 26.8.2020.

Thank You.

Kind Regards,
Sarah

NOTES

SITE VISIT REPORT / SITE INSTRUCTION

Project: GREYSTANBS PS

Client: ICON

Location: HERBY CARR

Attn: CHARBEL KHARMA

Date: 1/10/2020

Project No: NO20 0031

Inspection: RW4 & STEP TOP & SOG.

Report No: _____

INSPECTION WAS DONE THIS AFTERNOON AND FOLLOWING OBSERVATION WERE MADE.

1. RW4 GRID A7 NORTH

- HORIZONTAL ALIGNMENT TO BE RECTIFIED
- OVERCUT ON EAST BND. WALL & SOG TO BE POURED TOGETHER.
- SOME TOP U BARS ARE NOT TIED.
- SLAB ON GRADE CHAIRS TO BE REPLACED ON EAST SIDE TO MAINTAIN COVER & CONCRETE BELOW MESH.

2. STEP TOP: LACKING BAR MISSING.

3. RW4 SOUTH ON GRID A1

EAST BND OF WALL HAS EXCESSIVE COVER ON NORTH AND NO COVER ON SOUTH FACE. TO BE RECTIFIED

4. RW1 GRID C NEXT TO OSD AND RW1 BW. —
RWD IS SLIGHTLY OUT OF HORIZONTAL ALIGNMENT. TO BE FIXED

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer: RAFI SUKARN 

Site Rep: 

Tasks

Models

Documents

Mail

Field

Tenders

Sarah Britton
ICONInspection Close out Photos - RW1 & RW4 Zone A
GENERAL CORRESPONDENCE02/10/2020
ICONCO-GCOR-005280Rafi Sheikh
JN | CONSULTING ENGINEERSRe: Inspection Close out Photos - RW1 & RW4 Zone A
GENERAL CORRESPONDENCE02/10/2020
JN-GCOR-001158**Fairvale High School & Greystanes Public School**Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 AustraliaMAIL TYPE
General CorrespondenceMAIL NUMBER
JN-GCOR-001158REFERENCE NUMBER
ICONCO-GCOR-005280**Re: Inspection Close out Photos - RW1 & RW4 Zone A**

From Rafi Sheikh - JN | Consulting Engineers

To Ms Sarah Britton - Icon

Cc (2) Mr Nicholas Gannon - Icon (+1 more...)

Sent Friday, 2 October 2020 3:24:24 PM AEST (GMT +10:00)

Status N/A

DETAILS

Job Name Greystanes Public School

MESSAGE

Hi Sarah,

The photos show that the points raised in the report have been addressed.

Regards,

Rafi

From: S Britton
Sent: 02/10/2020 1:46:51 PM AEST (GMT +10:00)
To: Rafi Sheikh
Cc: Nicholas Gannon, Charbel Kharm
Mail Number: ICONCO-GCOR-005280
Subject: Inspection Close out Photos - RW1 & RW4 Zone A

SITE VISIT REPORT / SITE INSTRUCTION

Project:	GIREYSTANES PS		
Client:	L4ON		
Location:	GIREYSTANES		
Attn:	NICK	Date:	09/10/2020 10:45
		Project No:	N0200031

Inspection: STEP NEXT TO RWH ZONE A. Report No: _____

INSPECTION WAS CARRIED OUT ON THE 3RD STEP FROM BOTTOM
AND FOLLOWING IS RECORDED

1. STEP RWD IS IN ACCORDANCE WITH JN SK51-A.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement Inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer: ADRI SHIBIKI ALY Site Rep: N. J. NICK GANNON

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Sarah B Date: 23.10.2020 Project No: N0200031
Inspection: Zone A Bottom Step and Ramp Wall Re Report No: 22

JN Engineer Chris Guild inspected the reinforcement for the bottom step of the tiered seating as well as the retaining walls for the entry ramp, noting the following;

- Generally, the reinforcement for the retaining walls was as per the documents.
- The increased heights of the walls will not pose any issues, as the height of retained material will be the same. JN have no requirement to increase reinforcement.
- JN confirmed that the bars that were to be epoxied to tie the tread to the throat can be lapped with the cogged throat bars, as this section has not been poured.
- JN confirmed there is no issue with the bars that have been cut and relapped.
- Photos to be issued of completed reo.
- Ensure all loose material is removed from the base prior to pouring.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: Chris G Site Rep: Sarah B

Chris Guild
JN | CONSULTING ENGINEERS

Zone A Bottom Step and Entry Ramp Reo Inspection
GENERAL CORRESPONDENCE

23/10/2020
JN-GCOR-001210

Sarah Britton
ICON

Re: Zone A Bottom Step and Entry Ramp Reo Inspection
GENERAL CORRESPONDENCE

24/10/2020
ICONCO-GCOR-005837

Chris Guild
JN | CONSULTING ENGINEERS

Re: Zone A Bottom Step and Entry Ramp Reo Inspection
GENERAL CORRESPONDENCE

26/10/2020
JN-GCOR-001216

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001216

REFERENCE NUMBER
JN-GCOR-001210

Re: Zone A Bottom Step and Entry Ramp Reo Inspection

From: Mr Chris Guild - JN | Consulting Engineers
To: Ms Sarah Britton - Icon
Cc (4): Mr Wayne Goodwin - Icon ([+3 more...](#))
Sent: Monday, 26 October 2020 3:30:38 PM AEDT (GMT +11:00)
Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Thanks Sarah,

Confirming that the photos close out the report.

Regards

Chris

From: S Britton
Sent: 24/10/2020 1:22:49 PM AEDT (GMT +11:00)
To: Chris Guild
Cc: Nicholas Gannon, Wayne Goodwin, Charbel Kharm, Anthony Down
Mail Number: ICONCO-GCOR-005837

Subject: Re: Zone A Bottom Step and Entry Ramp Reo Inspection

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached photos of reo in relation to report carried out in Zone A, entry ramp and bottom tiered seat on 23.10.2020.

Please can you review the photos and confirm if they close out the inspection report from 23.10.2020?

Kind Regards,
Sarah

From: C Guild

Sent: 23/10/2020 1:56:28 PM AEDT (GMT +11:00)

To: Sarah Britton, Nicholas Gannon

Cc: Wayne Goodwin, Charbel Kharma, Anthony Down

Mail Number: JN-GCOR-001210

Subject: Zone A Bottom Step and Entry Ramp Reo Inspection

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Sarah,

See attached site report from today's inspection.

Regards

Chris

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Sarah Date: 23.11.2020 Project No: N0200031
Inspection: Zone A - Admin Retaining Wall Footing Report No: #024

JN Engineer Chris Guild attended site to inspect the reinforcement for the retaining wall along the Western and Northern edge of the zone A admin slab, noting;

- Generally the footing size was adequate for up to 1200mm high retaining wall, and therefore JN have no issues with the size.

- Reo appeared as per the details

- Note that the bars will need to be cleaned of mud prior to concrete being poured and loose material shall be removed from the base.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: Chris Guild Site Rep: Sarah Britton

Sarah Britton
ICON

Zone A Footings - Close out photos 23.11.2020
GENERAL CORRESPONDENCE

7:47 AM
ICONCO-GCOR-007620

Chris Guild
JN | CONSULTING ENGINEERS

Re: Zone A Footings - Close out photos 23.11.2020
GENERAL CORRESPONDENCE

2:13 PM
JN-GCOR-001355

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001355

REFERENCE NUMBER
ICONCO-GCOR-007620

Re: Zone A Footings - Close out photos 23.11.2020

From: Mr Chris Guild - JN | Consulting Engineers

To: Ms Sarah Britton - Icon

Cc: Mr Nicholas Gannon - Icon

Sent: Wednesday, 13 January 2021 2:13:28 PM AEDT (GMT +11:00)

Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Thanks Sarah,

Confirming this is closed out.

Regards

Chris

From: S Britton
Sent: 13/01/2021 7:47:17 AM AEDT (GMT +11:00)
To: Chris Guild
Cc: Nicholas Gannon
Mail Number: ICONCO-GCOR-007620
Subject: Zone A Footings - Close out photos 23.11.2020

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached close out photos for inspection carried out 23.11.2020 (see attached report) for Zone A Footings. Photos show photos have been cleaned.

Please can you confirm the attached photos closes out this report?

Thanks

Kind Regards,
Sarah

SITE VISIT REPORT / SITE INSTRUCTION

Project: Greengrass PS

Client: ICOR

Location: Greengrass B

Attn: Sarah Britton

Date: 30/11/20

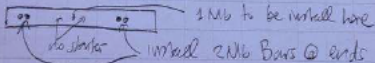
Project No: N2000034

Inspection: Block A Blockwork wall
along Grid A

Report No: _____

Having inspected Blockwork wall reinf. per instructions are:

- 1) Install 1 N16 vert Bars @ corner and either side of joints
- 2) 1 N16 vert bars to be installed @ 400 cts @ starter bars
- 3) When there is no starter bars:



- 4) Ensure the bars to be installed centrally.

Photos are required.

- This inspection does not include the foundation material and ground stability including excavations, castings, ledgers and stabilising elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy injected bars, chemical or prestress anchors. The correct installation of these bars is the responsibility of the builder.
- Reinforcement inspections are to be carried out prior to the start of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify all deficiencies noted in this report as a CONTRACT Work, Health and Safety, and building certification requirement.

JN Engineer: _____

Site Rep: SBH

Fairvale High School & Greystanes Public School
Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
General Correspondence	JN-GCOR-001334	ICONCO-GCOR-007405

Re: Block L RW Close out photos

From: Mr Chris Guild - JN | Consulting Engineers

To: Ms Sarah Britton - Icon

Cc (2): Mr Nicholas Gannon - Icon (+1 more...)

Sent: Thursday, 17 December 2020 3:04:19 PM AEDT (GMT +11:00)

Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Hi Sarah,

Melvin is no longer with JN. I can confirm that the photos close out the inspection report.

Regards

Chris

From: S Britton
Sent: 17/12/2020 2:09:57 PM AEDT (GMT +11:00)
To: Melvin Baeha
Cc: Nicholas Gannon, Chris Guild
Mail Number: ICONCO-GCOR-007405
Subject: Block L RW Close out photos

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Melvin,

Please see attached photos in relation to engineer inspection carried out on 1.12.2020 for Block L Retaining Wall (see mud map). Please confirm if this closes out the inspection reoport.

Thanks

Kind Regards,
Sarah

SITE VISIT REPORT / SITE INSTRUCTION

Project: Graystone S. Public School.
Client: Icon
Location: Merrybonds Road
Attn: Nick Date: 9/12/20 Project No: _____

Inspection: Zone A Ground Floor Report No: _____

N. Walker inspected the reinforcement for Zone A ground floor between Grids A-F & 7 - Beam beyond 4. Reinforcement was generally in accordance with JN drawings.

Instructions: Internal slab mesh has excessive top cover, raise up mesh to achieve 30 top cover using tripple chairs where required.
- cut mesh around wet areas & raise up, + lap extra mesh to achieve adequate cover Refer set down detail on 105A. Add N12 trimmer around step edge.
- Add N12 trimmers around mesh is cut.
- maintain cover - vibrate & cure to AS 3600

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical Engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, and building certification requirement.

JN Engineer: Nick

Site Rep: Nick

Nicholas Gannon
ICON

Greystanes PS - Block L Admin Slab Pour 1 Close Out
GENERAL CORRESPONDENCE

10/12/2020
ICONCO-GCOR-007223

Chris Guild
JN | CONSULTING ENGINEERS

Re: Greystanes PS - Block L Admin Slab Pour 1 Close Out
GENERAL CORRESPONDENCE

11/12/2020
JN-GCOR-001327

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001327

REFERENCE NUMBER
ICONCO-GCOR-007223

Re: Greystanes PS - Block L Admin Slab Pour 1 Close Out

From: Mr Chris Guild - JN | Consulting Engineers

To: Mr Nicholas Gannon - Icon

Cc: Ms Sarah Britton - Icon

Sent: Friday, 11 December 2020 4:22:04 PM AEDT (GMT +11:00)

Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Thanks Nick,

Confirming that the items are closed out.

Regards

Chris

From: N Gannon
Sent: 10/12/2020 5:10:02 PM AEDT (GMT +11:00)
To: Chris Guild
Cc: Sarah Britton
Mail Number: ICONCO-GCOR-007223
Subject: Greystanes PS - Block L Admin Slab Pour 1 Close Out

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached photos to close out the engineers report for Block L Admin Slab Pour 1.

Can you please confirm this closes this report out,

Regards,

Nicholas Gannon
ICON

Greystanes PS - Block L Admin Slab Pour 2 Close Out
GENERAL CORRESPONDENCE

12/12/2020
ICONCO-GCOR-007267

Chris Guild
JN | CONSULTING ENGINEERS

Re: Greystanes PS - Block L Admin Slab Pour 2 Close Out
GENERAL CORRESPONDENCE

14/12/2020
JN-GCOR-001328

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001328

REFERENCE NUMBER
ICONCO-GCOR-007267

Re: Greystanes PS - Block L Admin Slab Pour 2 Close Out

From: Mr Chris Guild - JN | Consulting Engineers

To: Mr Nicholas Gannon - Icon

Cc: Ms Sarah Britton - Icon

Sent: Monday, 14 December 2020 8:17:59 AM AEDT (GMT +11:00)

Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Thanks Nick,

Confirming this is closed out.

Regards

Chris

From: N Gannon
Sent: 12/12/2020 8:23:55 AM AEDT (GMT +11:00)
To: Chris Guild
Cc: Sarah Britton
Mail Number: ICONCO-GCOR-007267
Subject: Greystanes PS - Block L Admin Slab Pour 2 Close Out

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached photos to close out the inspection report for Pour 2 of Block L slab,

Can you please confirm this closes this inspection report out,

Thanks,

STRUCTURAL SITE INSPECTION

PROJECT: GREYSTANES PUBLIC SCHOOL

CLIENT: ICON.

ITEMS INSPECTED

Waffle pod slab

- Grids

1-2

A-F

1-3

AA - AB

RECOMMENDATIONS

Refer to attached site mark up drawing

1. Continue mesh and N12 bars to provide sufficient lap for next stage of concrete
2. Add 2N12 edge bars between dowels full length of edge
3. Add 1 missing dowel.

COMMENTS

Apart from notes above the rest of reinforcement is generally in accordance with our design details



SITE REPRESENTATIVE

INCREASE BEAM DEPTH TO SUIT NATURAL
GROUND LEVEL
REFER RAFT SLAB EDGE BEAM DETAILS (REB-
ON DRAWING S105)



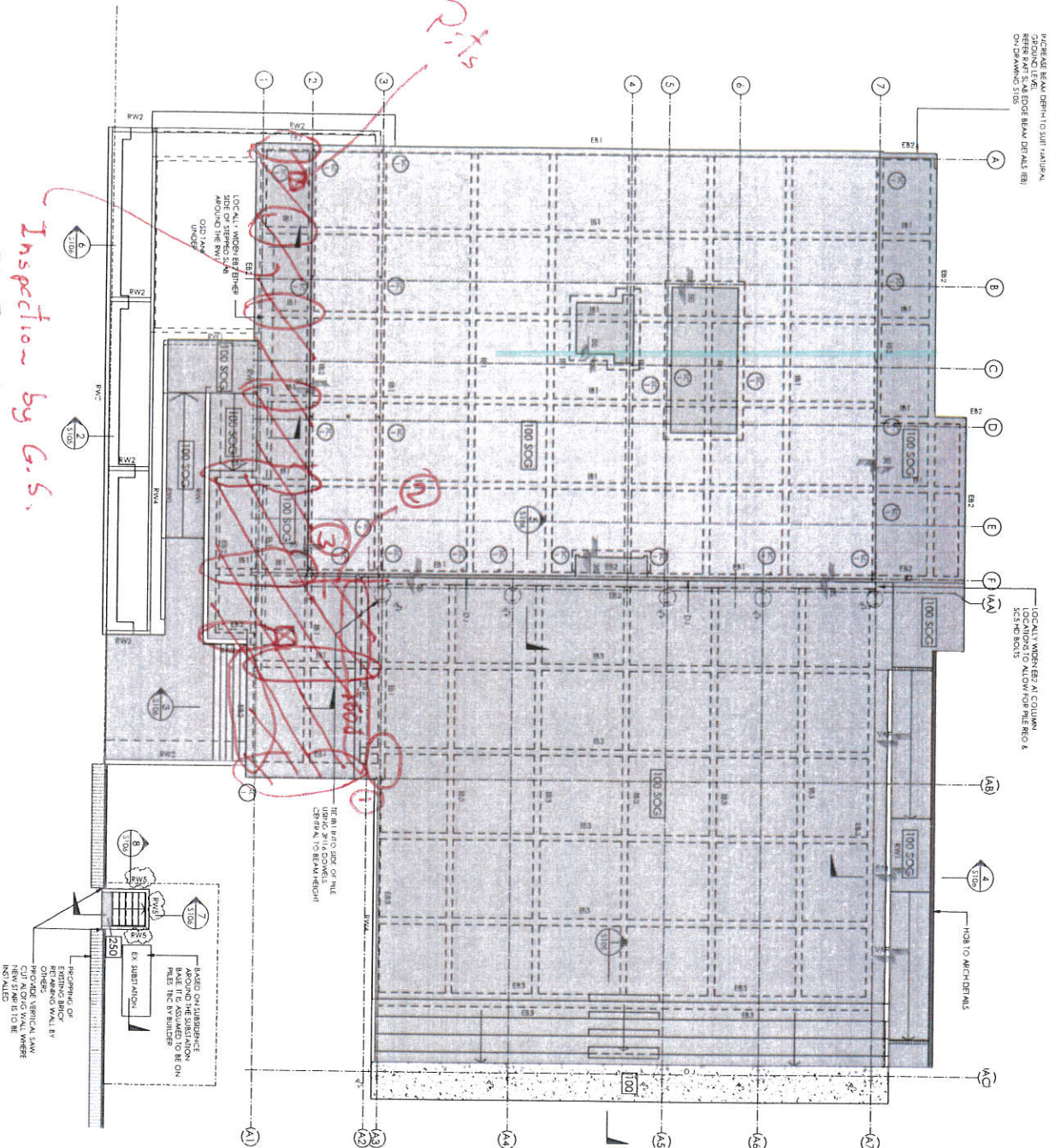
CUBES
ICON CO
STATUS
CONSTRUCTION

STRUCTURAL DESIGN

PROJECT
GREYSTANES PUBLIC SCHOOL

ADDRESS
MERRILL LYNCH PIERCE FENNER SMITH NEW YORK

NO2000031
S100 E



GROUND FLOOR PLAN - ZONE A

- 1 Add mesh for lap to future
- 2 2012 edge bar
- 3 1 down! missing

STRUCTURAL COLUMN SCHEDULE		
NO.	QUANTITY	REMARKS
1	1	1.000
2	1	1.000
3	1	1.000
4	1	1.000
5	1	1.000
6	1	1.000
7	1	1.000
8	1	1.000
9	1	1.000
10	1	1.000
11	1	1.000
12	1	1.000
13	1	1.000
14	1	1.000
15	1	1.000
16	1	1.000
17	1	1.000
18	1	1.000
19	1	1.000
20	1	1.000
21	1	1.000
22	1	1.000
23	1	1.000
24	1	1.000
25	1	1.000
26	1	1.000
27	1	1.000
28	1	1.000
29	1	1.000
30	1	1.000
31	1	1.000
32	1	1.000
33	1	1.000
34	1	1.000
35	1	1.000
36	1	1.000
37	1	1.000
38	1	1.000
39	1	1.000
40	1	1.000
41	1	1.000
42	1	1.000
43	1	1.000
44	1	1.000
45	1	1.000
46	1	1.000
47	1	1.000
48	1	1.000
49	1	1.000
50	1	1.000
51	1	1.000
52	1	1.000
53	1	1.000
54	1	1.000
55	1	1.000
56	1	1.000
57	1	1.000
58	1	1.000
59	1	1.000
60	1	1.000
61	1	1.000
62	1	1.000
63	1	1.000
64	1	1.000
65	1	1.000
66	1	1.000
67	1	1.000
68	1	1.000
69	1	1.000
70	1	1.000
71	1	1.000
72	1	1.000
73	1	1.000
74	1	1.000
75	1	1.000
76	1	1.000
77	1	1.000
78	1	1.000
79	1	1.000
80	1	1.000
81	1	1.000
82	1	1.000
83	1	1.000
84	1	1.000
85	1	1.000
86	1	1.000
87	1	1.000
88	1	1.000
89	1	1.000
90	1	1.000
91	1	1.000
92	1	1.000
93	1	1.000
94	1	1.000
95	1	1.000
96	1	1.000
97	1	1.000
98	1	1.000
99	1	1.000
100	1	1.000

[illegible]

STRUCTURAL PILE SCHEDULE			
LEG	GRID DEPTH	GRID ELEV	COMMENTS
B1	35.0	1007.5	1536 SLOTTED, 18" C 100% H ₂ ROCK

 BLANK PAPER  BLACK & WHITE  COLOR	 200 DPI  STEP  DIRECTION	 COLUMN 1  COLUMN 2  COLUMN 3  COLUMN 4  COLUMN 5  COLUMN 6  COLUMN 7  COLUMN 8  COLUMN 9  COLUMN 10 COLUMN 11 COLUMN 12 COLUMN 13 COLUMN 14 COLUMN 15 COLUMN 16 COLUMN 17 COLUMN 18 COLUMN 19 COLUMN 20 COLUMN 21 COLUMN 22 COLUMN 23 COLUMN 24 COLUMN 25 COLUMN 26 COLUMN 27 COLUMN 28 COLUMN 29 COLUMN 30 COLUMN 31 COLUMN 32 COLUMN 33 COLUMN 34 COLUMN 35 COLUMN 36 COLUMN 37 COLUMN 38 COLUMN 39 COLUMN 40 COLUMN 41 COLUMN 42 COLUMN 43 COLUMN 44 COLUMN 45 COLUMN 46 COLUMN 47 COLUMN 48 COLUMN 49 COLUMN 50 COLUMN 51 COLUMN 52 COLUMN 53 COLUMN 54 COLUMN 55 COLUMN 56 COLUMN 57 COLUMN 58 COLUMN 59 COLUMN 60 COLUMN 61 COLUMN 62 COLUMN 63 COLUMN 64 COLUMN 65 COLUMN 66 COLUMN 67 COLUMN 68 COLUMN 69 COLUMN 70 COLUMN 71 COLUMN 72 COLUMN 73 COLUMN 74 COLUMN 75 COLUMN 76 COLUMN 77 COLUMN 78 COLUMN 79 COLUMN 80 COLUMN 81 COLUMN 82 COLUMN 83 COLUMN 84 COLUMN 85 COLUMN 86 COLUMN 87 COLUMN 88 COLUMN 89 COLUMN 90 COLUMN 91 COLUMN 92
--	--	---

Nicholas Gannon
ICON

Greystanes PS - Admin Building Pour 3 Close Out
GENERAL CORRESPONDE...

15/01/2021
ICONCO-GCOR-007691

Chris Guild
JN | CONSULTING ENGINEERS

Re: Greystanes PS - Admin Building Pour 3 Close Out
GENERAL CORRESPONDE...

YESTERDAY
JN-GCOR-001362

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001362

REFERENCE NUMBER
ICONCO-GCOR-007691

Re: Greystanes PS - Admin Building Pour 3 Close Out

From: Mr Chris Guild - JN | Consulting Engineers
To: Mr Nicholas Gannon - Icon
Cc: Ms Sarah Britton - Icon
Sent: Monday, 18 January 2021 3:12:39 PM AEDT (GMT +11:00)
Status: N/A

DETAILS

Job Name: Greystanes Public School

MESSAGE

Hi Nick,

Confirming closed out.

Regards

Chris

From: N Gannon
Sent: 15/01/2021 9:11:50 AM AEDT (GMT +11:00)
To: Chris Guild
Cc: Sarah Britton
Mail Number: ICONCO-GCOR-007691
Subject: Greystanes PS - Admin Building Pour 3 Close Out

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

See attached photos to close out the inspection report for pour 3 of Administration Building,

Can you please confirm this closes this report out,

Regards,

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd
Attn: Sarah B Date: 22.01.2021 Project No: N0200031
Inspection: Zone A Final Steel Report No: 35

JN Engineer Chris Guild inspected the structural steel for Zone A, confirming the following;

- All structural members had been installed at time of inspection.
- All baseplates, except the column supporting the louvres had been grouted.
- The column noted above will need to be supported by ensuring the concrete slab is poured to underside of the baseplate, prior to installing louvres. Alternatively, pour a pedestal to support prior to slab being poured.
- Ensure all bolts are checked for tightness and all members are plumb prior to cladding over.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: Chris G Site Rep: Sarah B

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Nick/Tom Date: 09.04.2021 Project No: N0200031
Inspection: Zone A - Entry Slab On Ground Report No: SRPT 42

JN Engineer Chris Guild inspected the reinforcement for the entry slab on ground at Zone A, noting the following;

- Generally reo appeared to be as per the design docs.
- Starter bars for the RW2 were in place and RW2 footing dimensions appeared adequate.
- Tom was advised where trenching was done for the services running through to be poured first to allow a pour break between the thickened infill and the main slab.
- IT was advised to pull back the pour break to align with the ramp entry wall. photos were issued to show this was done, prior to closing out this report.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: Chris G Site Rep: Nick G

Chris Guild
JN | CONSULTING ENGINEERS

Zone A - Entry Slab On Ground Reo Insp.
GENERAL CORRESPONDE...

YESTERDAY
JN-GCOR-001521

Sarah Britton
ICON

Re: Zone A - Entry Slab On Ground Reo Insp.
GENERAL CORRESPONDE...

10:00 AM
ICONCO-GCOR-009683

Chris Guild
JN | CONSULTING ENGINEERS

Re: Zone A - Entry Slab On Ground Reo Insp.
GENERAL CORRESPONDE...

10:18 AM
JN-GCOR-001523

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001521

REFERENCE NUMBER
JN-GCOR-001521

Zone A - Entry Slab On Ground Reo Insp.

From Mr Chris Guild - JN | Consulting Engineers

To (3) Ms Sarah Britton - Icon (+2 more...)

Cc Mr Anthony Down - JN | Consulting Engineers

Sent Tuesday, 13 April 2021 3:48:07 PM AEST (GMT +10:00)

Status N/A

DETAILS

Job Name Greystanes Public School

MESSAGE

Hi All,

Please find attached report from Friday's inspection. Note that Tom has already issued a photo closing out the only item.

Rgeards

Chris

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Nick Date: 21.04.2021 Project No: N0200031
Inspection: Zone SOG under COLA Report No: 44

Scope: Pre-pour inspection of Zone A slab on ground under COLA

Relevant Drawings:

N0200031-S100-A

N0200031-S105-A

N0200031-S106-A

Comments:

- Slab reinforcement between grid lines AB and AC installed in accordance with JN documentation.
- The 2 N12 bars at the top of the beams west of grid line AB were not installed at time of inspection. Ensure bars are installed prior to concrete pour and provide JN with photos.
- Ensure plastic under slab is flush with ground prior to pouring concrete.
- Ensure bituminous filler board is flush against the existing footing prior to pour.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: S. Hunter Site Rep: Tom

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001549

REFERENCE NUMBER
JN-GCOR-001549

Zone A Cola Slab Reo

From Mr Chris Guild - JN I Consulting Engineers

To (2) Ms Sarah Britton - Icon (+1 more...)

Cc (2) Selver Moshe - Icon (+1 more...)

Sent Tuesday, 27 April 2021 2:22:33 PM AEST (GMT +10:00)

Status N/A

DETAILS

Job Name Greystanes Public School

FILE ATTACHMENTS (1)

File Name



2021.04.21 - SRPT 44 - Zone A Slab on ground under COLA.pdf

MESSAGE

HI All,

See attached site report from last week's inspection by Sam. Noting that Tom has already closed out minor issues with photos.

Regards

Chris

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Nick Date: 27.04.2021 Project No: N0200031
Inspection: Zone SOG on grid AC Report No: 45

Scope: Pre-pour inspection of Zone A slab on ground on grid AC

Relevant Drawings:

N0200031-S100-A

N0200031-S105-A

Comments:

- Slab reinforcement for slab on ground on grid line AC installed in accordance with JN documentation.
- Not all dowel bars between grid lines A6 and A7 were installed at time of inspection. Ensure dowel bars are installed prior to concrete pour and provide JN with photos.
- Ensure plastic under slab is flush with ground prior to pouring concrete.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: S. Hunter Site Rep: Tom

Sarah Britton
ICON

Zone A Inspection 27.4.21 Close out Photos - COLA S...
GENERAL CORRESPONDE...
28/04/2021
ICONCO-GCOR-010042

Chris Guild
JN I CONSULTING ENGINEERS

Re: Zone A Inspection 27.4.21 Close out Photos - COL...
GENERAL CORRESPONDE...
28/04/2021
JN-GCOR-001554

Fairvale High School & Greystanes Public School

Greystanes Public School
781 Merrylands Rd
Greystanes
NSW 2145 Australia



MAIL TYPE
General Correspondence

MAIL NUMBER
JN-GCOR-001554

REFERENCE NUMBER
ICONCO-GCOR-010042

Re: Zone A Inspection 27.4.21 Close out Photos - COLA SOG top section

From: Mr Chris Guild - JN I Consulting Engineers
To: Ms Sarah Britton - Icon
Cc (2): Mr Nicholas Gannon - Icon (+1 more...)
Sent: Wednesday, 28 April 2021 9:18:19 AM AEST (GMT +10:00)
Status: N/A

DETAILS

Job Name: Greystanes Public School

FILE ATTACHMENTS (1)

File Name

 2021.04.27 - SRPT 45 - Zone A Slab on ground on grid AC.pdf

MESSAGE

Hi Sarah,

See attached site report from Sam's inspection yesterday. Confirming the photos close out the comments.

Regards

Chris

From: S Britton
Sent: 28/04/2021 9:12:58 AM AEST (GMT +10:00)
To: Chris Guild
Cc: Nicholas Gannon, Andrew Maraun

Mail Number: ICONCO-GCOR-010042

Subject: Zone A Inspection 27.4.21 Close out Photos - COLA SOG top section

Job Name:	Greystanes Public School
------------------	--------------------------

Hi Chris,

Please see attached photos to close out inspection carried out by Sam yesterday (27.4.2021) for Zone A SOG top section of COLA.

Please can you issue the report and confirm the photos close out this inspection?

Kind Regards,
Sarah

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd, Greystanes
Attn: Nick Date: 20.04.2021 Project No: N0200031
Inspection: Zone A Entry Stairs and Ramp Report No: 43

Scope: Pre-pour inspection of stairs, ramp and IB1 adjacent to GL1

Relevant Drawings:

N0200031-S100-A

N0200031-S105-A

N0200031-S106-A

Comments:

- Stair reinforcement not installed in accordance with JN documentation, as discussed on site, reinforcing mesh is to be installed prior to concrete pour.
- Ramp reinforcement mesh was in place during inspection however resting on ground, prior to pour ensure correct cover from top surface is achieved.
- Only 1N12 was visible for IB1, as discussed on site this is not in accordance with JN drawings, however, is deemed acceptable.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: S. Hunter Site Rep: Tom

Site Visit Report / Site Instruction

Project:	Greystanes PS		
Client:	Icon		
Location:	Merrylands Rd, Greystanes		
Attn:	Nick	Date:	20.04.2021
		Project No:	N0200031
Inspection:	Zone A Entry Stairs and Ramp		Report No: 43

Scope: Pre-pour inspection of stairs, ramp and IB1 adjacent to GL1

Relevant Drawings:

N0200031-S100-A

N0200031-S105-A

N0200031-S106-A

Comments:

- Stair reinforcement not installed in accordance with JN documentation, as discussed on site, reinforcing mesh is to be installed prior to concrete pour.
- Ramp reinforcement mesh was in place during inspection however resting on ground, prior to pour ensure correct cover from top surface is achieved.
- Only 1N12 was visible for IB1, as discussed on site this is not in accordance with JN drawings, however, is deemed acceptable.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer:	S. Hunter	Site Rep:	Tom
--------------	-----------	-----------	-----

Site Visit Report / Site Instruction

Project: Greystanes PS
Client: Icon
Location: Merrylands Rd
Attn: Sarah B Date: 22.01.2021 Project No: N0200031
Inspection: Zone A Final Steel Report No: 35

JN Engineer Chris Guild inspected the structural steel for Zone A, confirming the following;

- All structural members had been installed at time of inspection.
- All baseplates, except the column supporting the louvres had been grouted.
- The column noted above will need to be supported by ensuring the concrete slab is poured to underside of the baseplate, prior to installing louvres. Alternatively, pour a pedestal to support prior to slab being poured.
- Ensure all bolts are checked for tightness and all members are plumb prior to cladding over.

- This inspection does not include the foundation material and ground stability including: excavations, cuttings, batters and stabilizing elements such as soil nails, rock bolts and ground anchors etc. It is the builder's responsibility to have the Geotechnical engineer inspect and approve prior to placing concrete.
- This inspection does not include the formwork, formwork support and back-propping. It has not been inspected and should be separately certified by an experienced formwork engineer.
- This inspection does not include epoxy grouted bars, chemical or expansion anchors. The correct installation of these items is the responsibility of the builder.
- Reinforcement inspections are subject to final clean out of formwork or excavation and maintaining specified cover during placement of concrete.
- The builder must rectify the defects listed in this report as a contractual, Work Health and Safety, building certification requirement.

JN Engineer: Chris G Site Rep: Sarah B

GREYSTANES PUBLIC SCHOOL

MERRYLANDS ROAD GREYSTANES NSW 2145

Job No. N0200031

PROJECT INFORMATION TABLE

THE TABLES BELOW ARE TO BE READ IN CONJUNCTION WITH THE ADJACENT NOTES

GEOTECHNICAL INFORMATION

COMPANY	REPORT No.	DATED
J&K	30431srpt	24.06.17

FOUNDATIONS

SITE CLASSIFICATION	FOUNDATION MATERIAL	ALLOW BEARING CAP
"P" "H2"	ROCK CLAY	1000 kPa 100 kPa

MASONRY DESIGN

LOCATION	RESISTANCE GRADE	MIN MORTAR CLASS	DURABILITY CLASS OF BUILT-IN COMPONENTS
INTERNAL	PROTECTED	M2	R1
EXTERNAL	PROTECTED	M2	R1
BELOW GROUND	GP	M3	R3

- THE ABOVE TABLE IS FOR BOTH BRICKWORK & BLOCKWORK
- INTERNAL SKINS OF EXTERNAL CAVITY WALLS ARE CONSIDERED EXTERNAL
- BELOW GROUND DENOTES BELOW DAMP PROOF COURSE OR IN CONTACT WITH SOIL
- CORE FILL BLOCKS WITH 20MPa GROUT - 10mm MAX AGGREGATE SIZE

STEELWORK FINISHES

LOCATION	TYPE	CODE
INTERNAL	PAINT SYSTEM	AK3
BUILT INTO MASONRY	GALVANISED	HDC 400
EXTERNAL	GALVANISED	HDC 600

- FOR FINISH TYPE & CODE REFER TO STANDARD AS/NZS 2312
- FOR DECORATIVE FINISH REFER TO ARCHITECTURAL OR OWNERS SPECIFICATIONS

FLOOR LOADS

FLOOR USAGE	LIVE LOADS	IMPOSED DEAD LOAD
GENERALLY	3.0 kPa	0.5 kPa
ROOF	0.25 kPa	-
PLANT	5.0 kPa	-
BALCONIES	4.0 kPa	0.5 kPa
STAIRS	4.0 kPa	0.5 kPa
COMMON / MOVEMENT	4.0 kPa	0.5 kPa

CONCRETE DESIGN

CEMENT TYPE - "CF"
LIMIT DRYING SHRINKAGE AT 56 DAYS - 800 MICRONS
SULPHATE RESISTANCE CONCRETE BELOW GROUHYVES

PROVIDE 50mm SIDE COVER TO TIES FOR ALL BEAMS U.N.O.

ELEMENT	STRENGTH	COVER EXT	COVER INT
FOOTINGS	32 MPa	50	-
SLAB ON GROUND	32 MPa	40	25
SUSPENDED SLABS/BEAMS	40 MPa	40	25
STAIRS	32 MPa	40	40
WALLS	32 MPa	40	40
COLUMNS	40 MPa	40	30

TIMBER DURABILITY

LOCATION	HAZARD CLASS (SOFT WOODS)	DURABILITY CLASS (HARD WOODS)
INTERNAL ABOVE GROUND	H2	CLASS 1 OR 2
EXTERNAL ABOVE GROUND	H3	CLASS 1 OR 2
BELOW GROUND	H5	CLASS 1

EARTHQUAKE DESIGN PARAMETERS

IMPORTANCE LEVEL	= 3
SITE SUB-SOIL CLASS	= Bc
ACCELERATION CO-EFFICIENT	= 0.08
DESIGN CATEGORY	= II

WIND DESIGN PARAMETERS

REGION	= A2
IMPORTANCE LEVEL	= 3
REGIONAL WIND SPEED	= 1000 = 46m/s
TERRAIN CATEGORY	= 3
TOPOGRAPHIC MULTIPLIER	= 1.0

SAFETY IN DESIGN

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING THIS DESIGN THAT ARE TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROL ROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS.

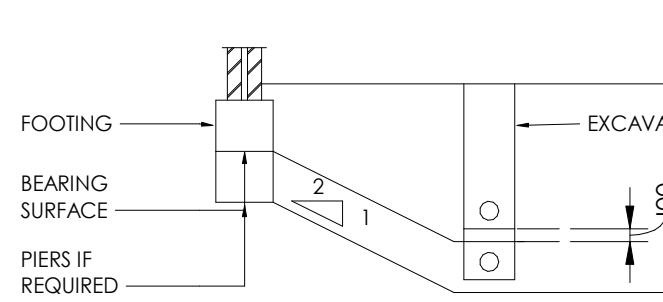
- IN DO NOT CONSIDER THAT THERE ARE ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN OF THIS PROJECT.

GENERAL

1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATION AND WITH SUCH OTHER WRITTEN INSTRUCTION AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND THE NATIONAL CONSTRUCTION CODE SYSTEM EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
5. THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS.
6. THE BUILDER SHALL LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ENGINEER TO BE NOTIFIED.
7. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
8. ALL PROPRIETY ITEMS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS & DETAILS.

FOUNDATIONS & EARTHWORKS

1. THIS FOUNDATION MATERIAL SHALL BE UNIFORM AND BE APPROVED BY A GEOTECHNICAL ENGINEER FOR THE ALLOWABLE BEARING PRESSURE BEFORE PLACING REINFORCEMENT. PIERS OR BLOCKDOWNS SHALL BE USED TO ACHIEVE UNIFORM BEARING WHERE NECESSARY.
2. THIS SITE CLASS HAS BEEN DESIGNED IN ACCORDANCE WITH AS 2870 (WHERE APPLICABLE). CONFIRMATION OF SITE CLASSIFICATION IS REQUIRED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION COMMENCING ON SITE.
3. FOOTINGS SHALL BE CONCRETED ON THE DAY OF APPROVAL UNLESS PERMITTED OTHERWISE.
4. FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
5. FOOTING LEVELS WHERE SHOWN ARE ESTIMATES ONLY AND WILL BE ESTABLISHED DURING SITE INSPECTION OF WORK IN PROGRESS.
6. BACKFILL TO RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN AT BASE OF WALL. DO NOT BACKFILL UNTIL 14 DAYS AFTER CORE FILLING, OR IF APPLICABLE, AFTER RESTRAINING SLAB OVER HAS BEEN POURED AND CURED FOR 7 DAYS. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ±2%.
7. PROVIDE ADEQUATE BATTERS OR SHORING TO THE SIDE OF ALL EXCAVATIONS. REFER TO GEOTECHNICAL ENGINEER FOR RELEVANT ADVICE.



EXCAVATION IN ROCK

1. THE CONTRACTOR SHALL SUBMIT HIS PROPOSAL FOR EXCAVATION TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.
2. THE METHOD SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE DA CONDITIONS, PARTICULARLY IN RELATION TO NOISE LEVELS, VIBRATION AND WORK HOURS.
3. VIBRATIONS SHALL NOT EXCEED THAT SPECIFIED IN THE GEOTECHNICAL REPORT AND ALARMS SHALL BE INSTALLED TO MONITOR THESE VIBRATIONS. U.N.O.
4. ALL THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR THE SITE SHALL BE OBSERVED AND MET.

INSITU BORED CONCRETE PILES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2159 PILING DESIGN & INSTALLATION CURRENT EDITIONS WITH REVISIONS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. ALL DESIGN AND INSTALLATION SHALL BE COMPLETED BY AN EXPERIENCED CONTRACTOR SPECIALISING IN FOUNDATION ENGINEERING AND SHALL BE IN ACCORDANCE WITH AS2159 SUBMIT DETAILS OF PROPOSED DRILLING METHODS, EQUIPMENT AND SEQUENCE. GIVE NOTICE SO THAT INSPECTION MAY BE MADE OF THE FOLLOWING AS APPLICABLE:
 - AT COMPLETION OF EXCAVATION OF PIERS
 - REINFORCEMENT OF PIER
3. SETTING OUT - PEG THE POSITION OF EACH PILE AND ESTABLISH A GRID OF RECOVERY PEGS TO ENABLE THE SETTING OUT TO BE CHECKED AT ANY TIME. PILES AND/OR PIERS SHALL BE LOCATED WITHIN 75mm OF THE PLAN LOCATIONS AS SHOWN ON THE ENGINEERING DRAWINGS.
4. PIERS SHALL BE POURED WITHIN 24 HOURS OF EXCAVATION UNLESS OTHERWISE AGREED.
5. PIER WALL SHALL BE MAINTAINED STABLE PRIOR TO POURING CONCRETE.
6. PIER BASES SHALL BE LEVEL AND FREE OF ALL LOOSE MATERIAL.
7. REMOVE ALL FREE WATER FROM PIERS BEFORE POURING.
8. CONFIRM BEARING PRESSURE AT BASE OF ALL PIERS BY GEOTECHNICAL TESTING/INSPECTIONS.
9. CONCRETE SHALL BE PLACED IN SUCH A MANNER SO AS TO AVOID SEGREGATION.
10. REFER TO AS 2870 FOR CONCRETE NOTES.
11. THE PILE DEPTHS SHOWN ON THE ENGINEERS DRAWINGS ARE PROVISIONAL. ACTUAL PILE LENGTHS ARE TO BE MEASURED BY THE CONTRACTOR AND APPROVED BY THE SUPERINTENDENT.
12. OBSERVE SAFE WORKING PRACTICES, INCLUDING THE RELEVANT PRACTICES RECOMMENDED IN AS2159 APPENDIX B.
13. PROVIDE & INSTALL FACILITIES NECESSARY FOR INSPECTION OF PILING INCLUDING SAFE ACCESS, LIGHTING, VENTILATION AND THE LIKE.
14. REFER TO DRAWINGS FOR ALL OTHER PIER INFORMATION.
15. RECORD THE RELEVANT INFORMATION AS LISTED IN AS2159, AND FORWARD TO ENGINEER/SUPERINTENDENT COPIES OF EACH RECORD TO THE SUPERINTENDENT.
16. PROVIDE A SURVEY OF ALL PILES/PIERS AFTER INSTALLATION INCLUDING THE LENGTH FROM THE UNDERSIDE OF THE PILE CAP OR FOUNDATION, BEAM TO THE TOE OF THE PILE/PIER AND THE LEVEL OF THE SURROUNDING GROUND AT THE TIME WHEN THE PILE IS INSTALLED.

CONTRACTOR DESIGNED PILES

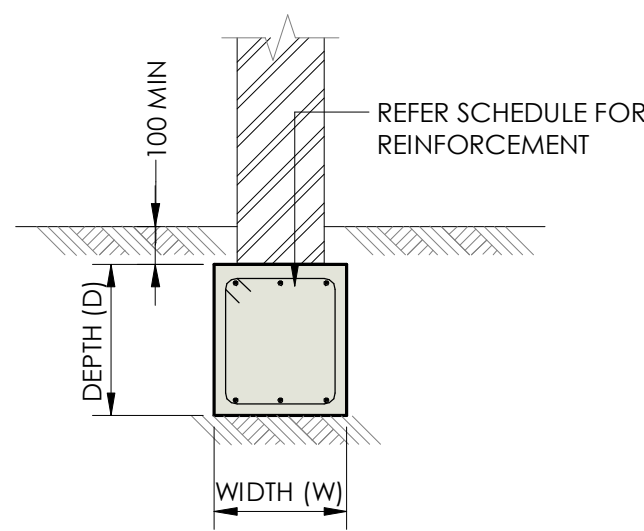
1. THE PILES ARE TO BE DESIGNED, INSTALLED AND CERTIFIED BY THE CONTRACTOR FOR THE LOADS INDICATED ON THE DRAWINGS.
2. THE DESIGN LIFE OF THE PILES IS TO BE A MINIMUM OF 50 YEARS UNLESS NOTED OTHERWISE IN THE PROJECT INFORMATION TABLE.
3. DESIGN AND INSTALLATION OF PILES IS TO BE IN ACCORDANCE WITH AS2159 AND TO INCLUDE ALLOWANCE FOR INDUCED MOMENTS IN PILES DUE TO CONSTRUCTION TOLERANCES.

CONCRETE

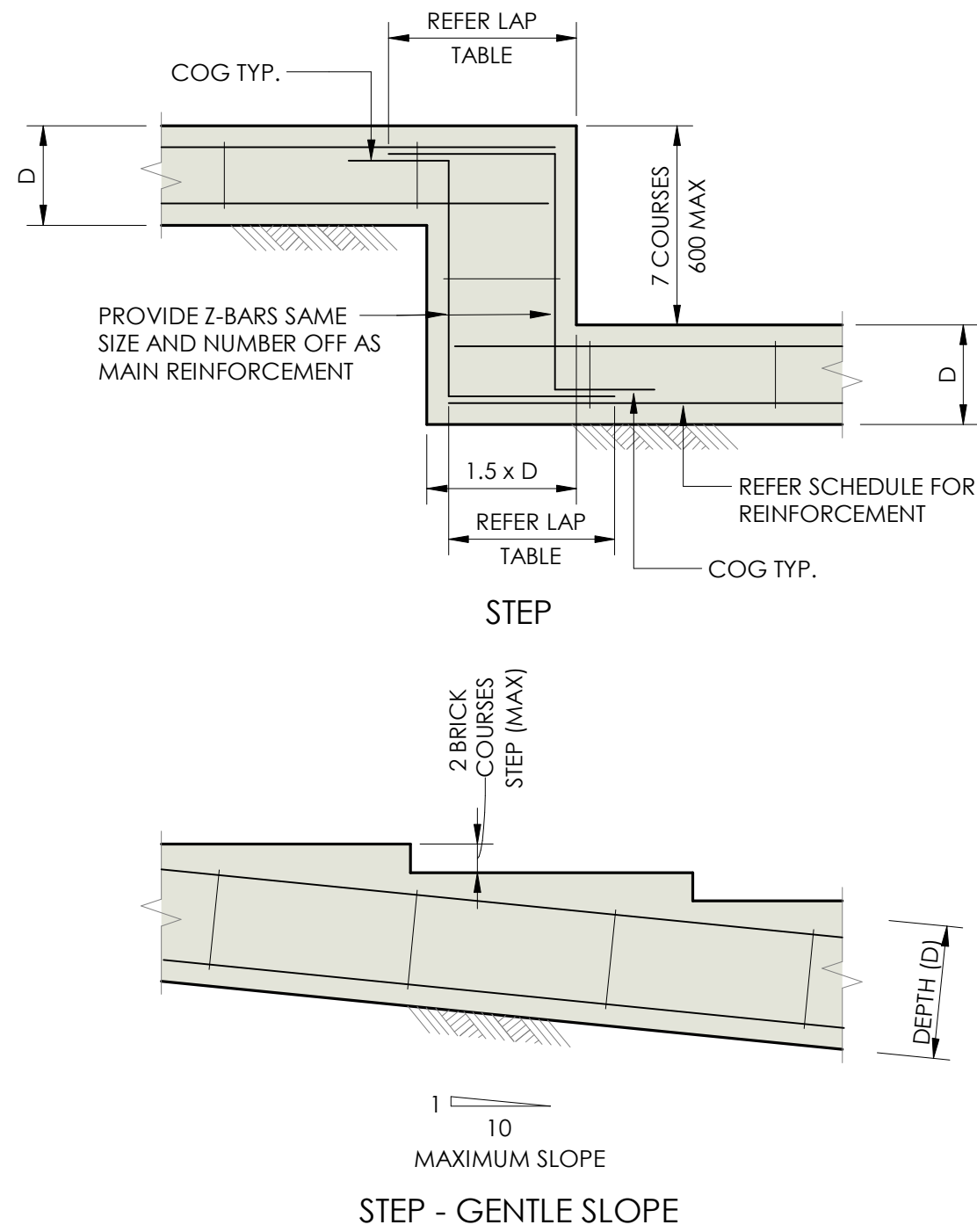
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600.
3. CONCRETE TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO SATISFY PROJECT INFORMATION TABLE.
4. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
5. THE CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS NOTED IN THE PROJECT INFORMATION TABLE UNLESS SHOWN OTHERWISE.
6. WHERE CONCRETE IS POURED ON A VAPOUR PROOF MEMBRANE 0.2mm MINIMUM THICKNESS, THE COVER TO CONCRETE CAST AGAINST GROUND MAY BE REDUCED BY 10mm.
7. CONCRETE FINISHES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. NO FINISH WHICH DECREASES COVER IS ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
8. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
9. FOR CHAMFERS DRIP GROOVES, REGULETS, ETC. REFER TO ARCHITECTS DETAILS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
10. NO HOLES, CHASES, BLOCKOUTS, DUCTS OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
11. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
12. ALL CONCRETE COLUMNS GREATER THAN 1.2 METRES IN HEIGHT SHALL BE POURED A MINIMUM OF 4 HOURS PRIOR TO SLAB OR BEAM OVER.
13. CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS OR VOIDS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
14. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET AS PER AS 3600. INTERNAL SLABS SHOULD BE CURED FOR A MINIMUM OF 3 DAYS AND EXTERNAL SLABS FOR A MINIMUM OF 7 DAYS. CURING COMPOUNDS MAY BE USED BUT MUST BE COMPATIBLE WITH THE PROPOSED FLOOR FINISHED & BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. POLYTHENE SHEETING OR WET Hessian MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
15. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL SEVEN DAYS AFTER PROPPING HAS BEEN REMOVED AND THE SLAB PRE-LOADED WITH THE BRICKS OR UNITS TO BE USED IN THE WALL.
16. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.
17. CAST-IN FIXINGS, BOLTS ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE ENGINEER.
18. THE CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO AVOID SEGREGATION OR LOSS OF MATERIALS. MAXIMUM FALL OF CONCRETE = 1500mm OR USE ENCLOSED CHUTES OR SIMILAR.
19. SULPHATE RESISTANT CONCRETE TO BE USED IN ALL FOOTINGS, PILES AND PILE CAPS IF REQUIRED BY THE PROJECT DESIGN INFORMATION.
20. IF AMBIENT TEMPERATURES ARE LESS THAN 5°C OR GREATER THAN 35°C DO NOT MIX CONCRETE WITHOUT TAKING PROVISIONS TO ENSURE THE CONCRETE IS DELIVERED WITHIN THIS TEMPERATURE RANGE.

REINFORCEMENT

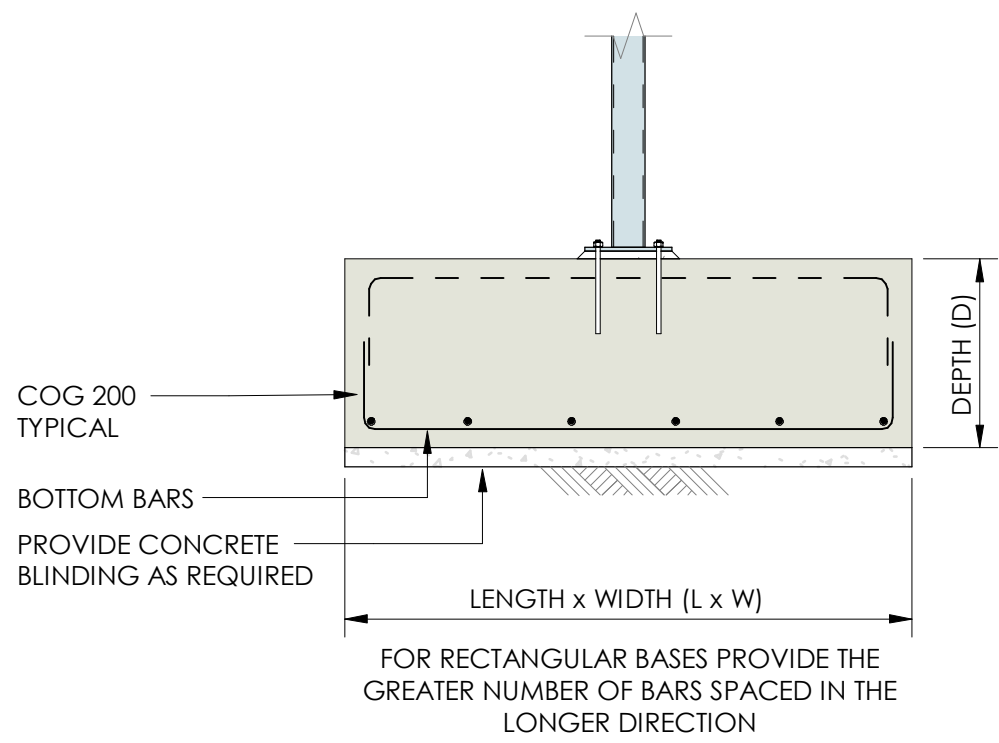
1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
2. SPICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH THE LAP TABLE.
3. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
4. FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm. WHERE FABRIC LAPS, SHEETS TO HAVE MAXIMUM 2 LAYERS AT ANY POINT, CUT BACK FABRIC AT CORNERS AS REQUIRED.
5. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTERS WITH 3 WRAPS OF THE WIRE.
6. FIRE RATING MESH F41 SHALL BE GALVANISED. HAVE 20mm COVER AND BE TIED USING GALVANISED TIE WIRE.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC AT ALL BEAMS ARE ENTIRELY UNDER LAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 200mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING FLEECE. WHERE THE MEMBRANE CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS, SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.
7. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 LAPPED AS REQUIRED.
8. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND PROVIDE PLATES UNDER ALL BAR CHAIRS. PL



STRIP FOOTING DETAIL (SF)
SCALE 1 : 20

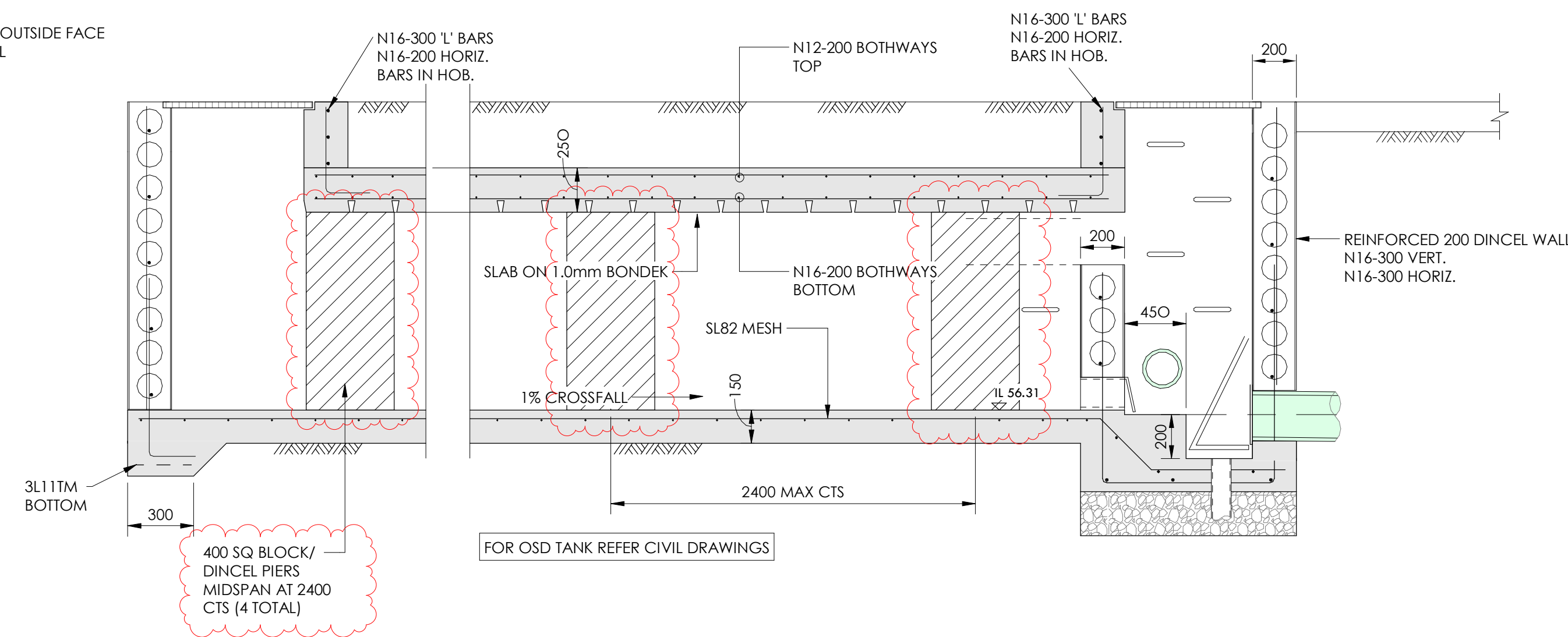
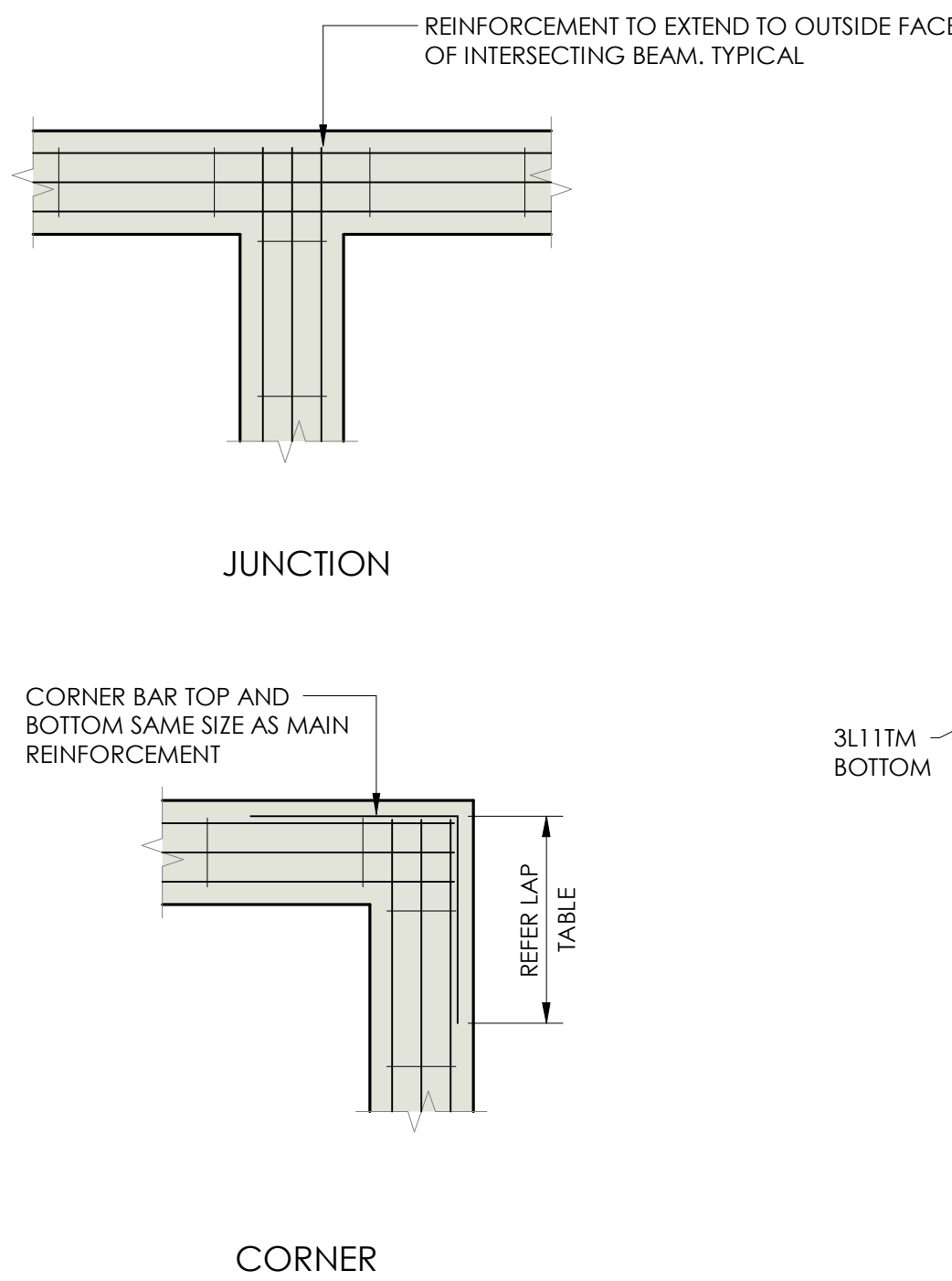


STRIP FOOTING DETAILS
SCALE 1 : 20

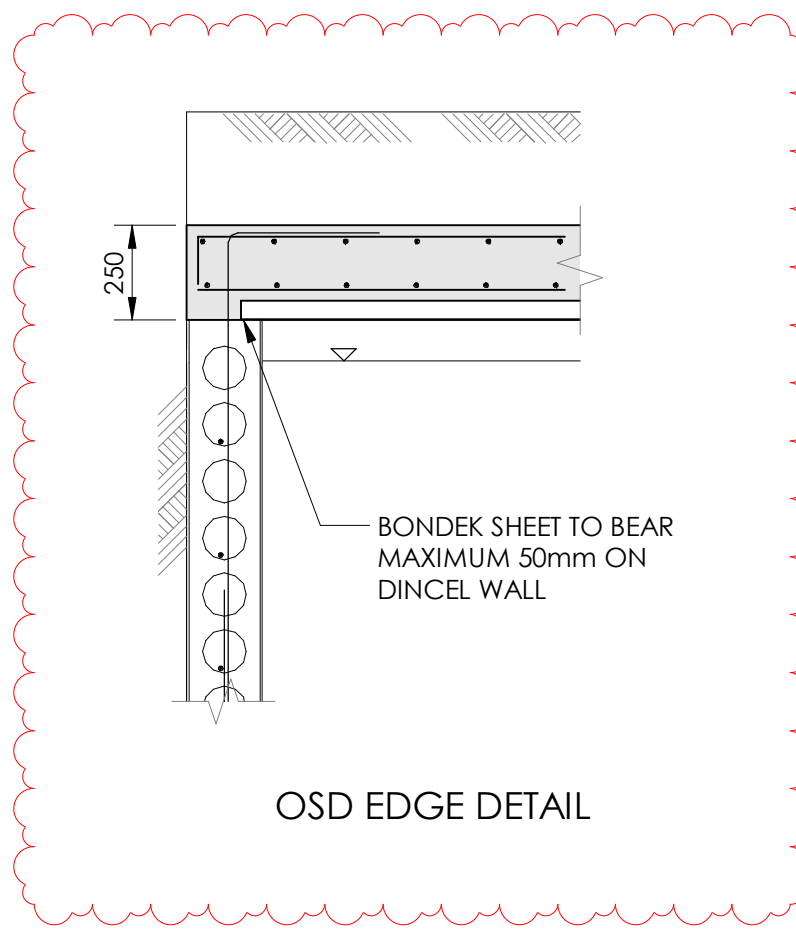


PAD FOOTING DETAIL (PF)
SCALE 1 : 20

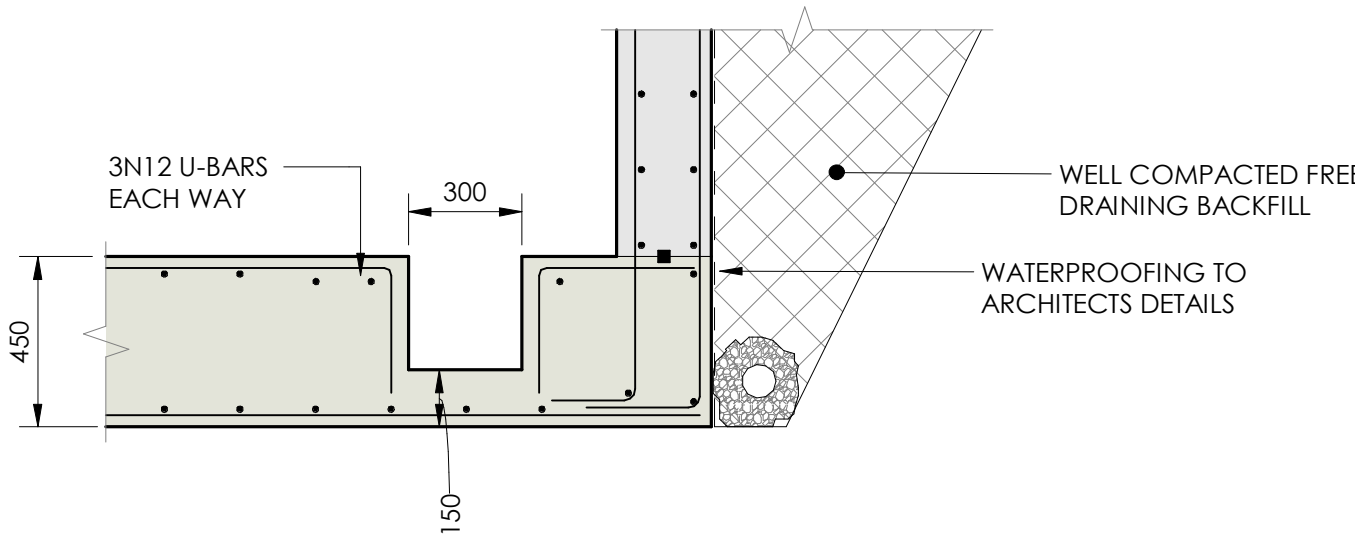
STRUCTURAL PAD FOOTING SCHEDULE					
TAG	WIDTH	LENGTH	DEPTH	REO TOP	REO BTM
PF3	1200	1800	600	N16-200 EW	N20-200 EW
PF4	2400	1800	600	N16-200 EW	N20-200 EW
TH1	1000	1000	600		4N20 EW
TH2	1000	1000	625		4N20 EW
TH3	300	300	250		-
TH4	1000	1000	500		4N20 EW



ON SITE DETENTION TANK DETAIL
SCALE 1 : 20

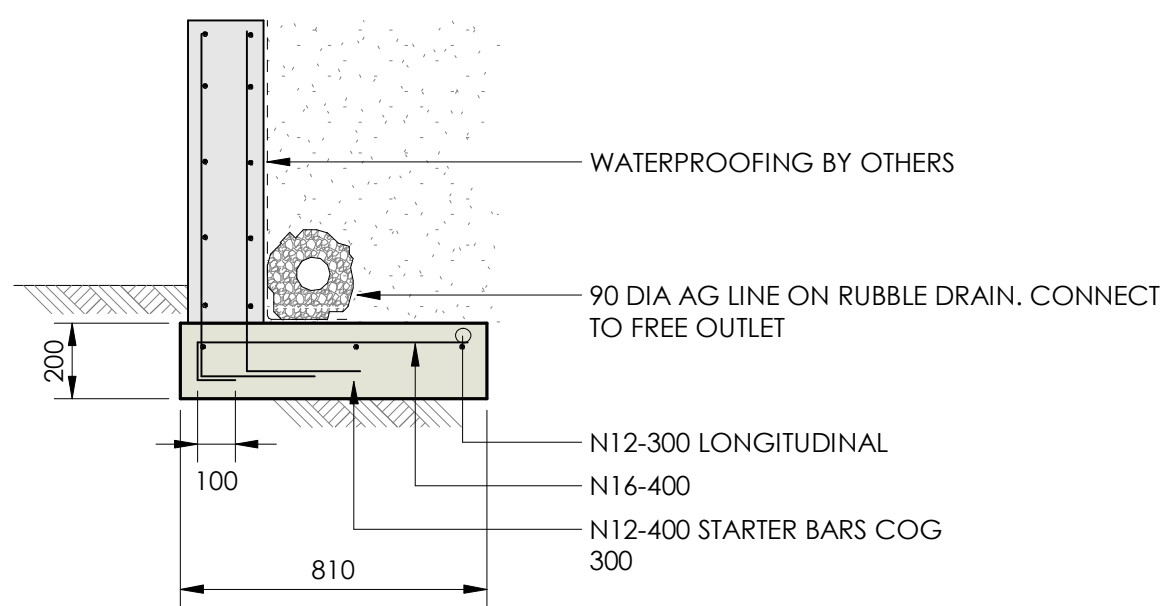


OSD EDGE DETAIL

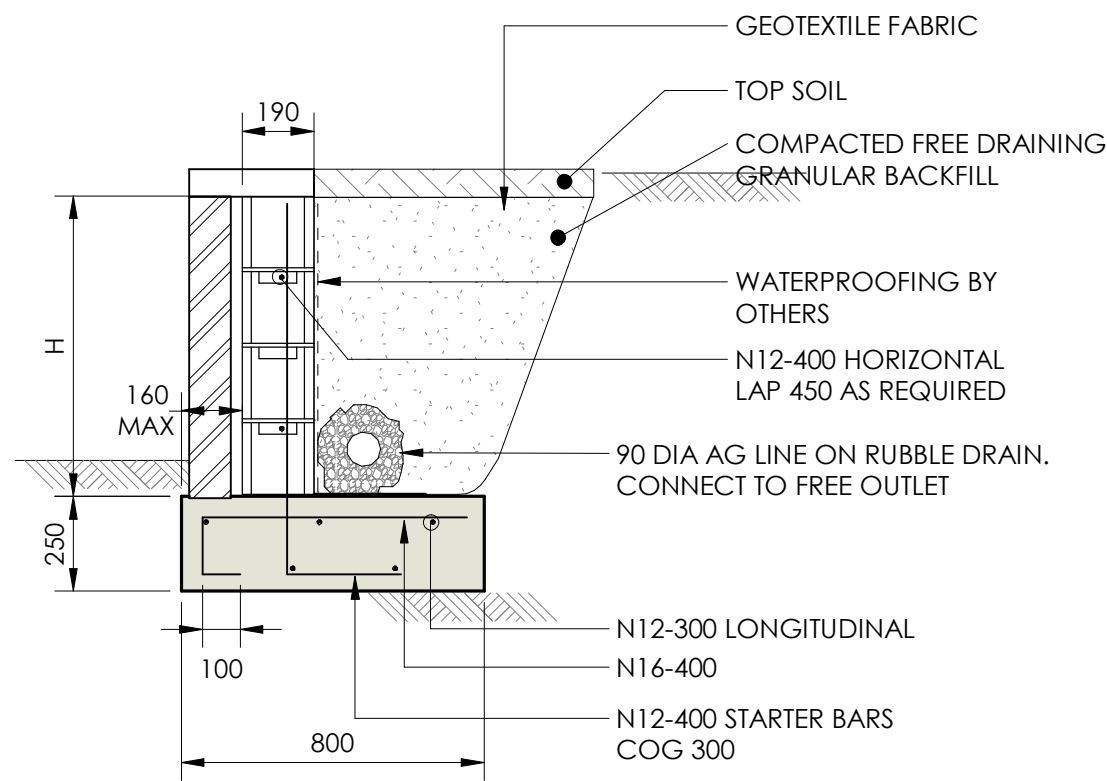


TYPICAL SUMP DETAIL
SCALE 1 : 20

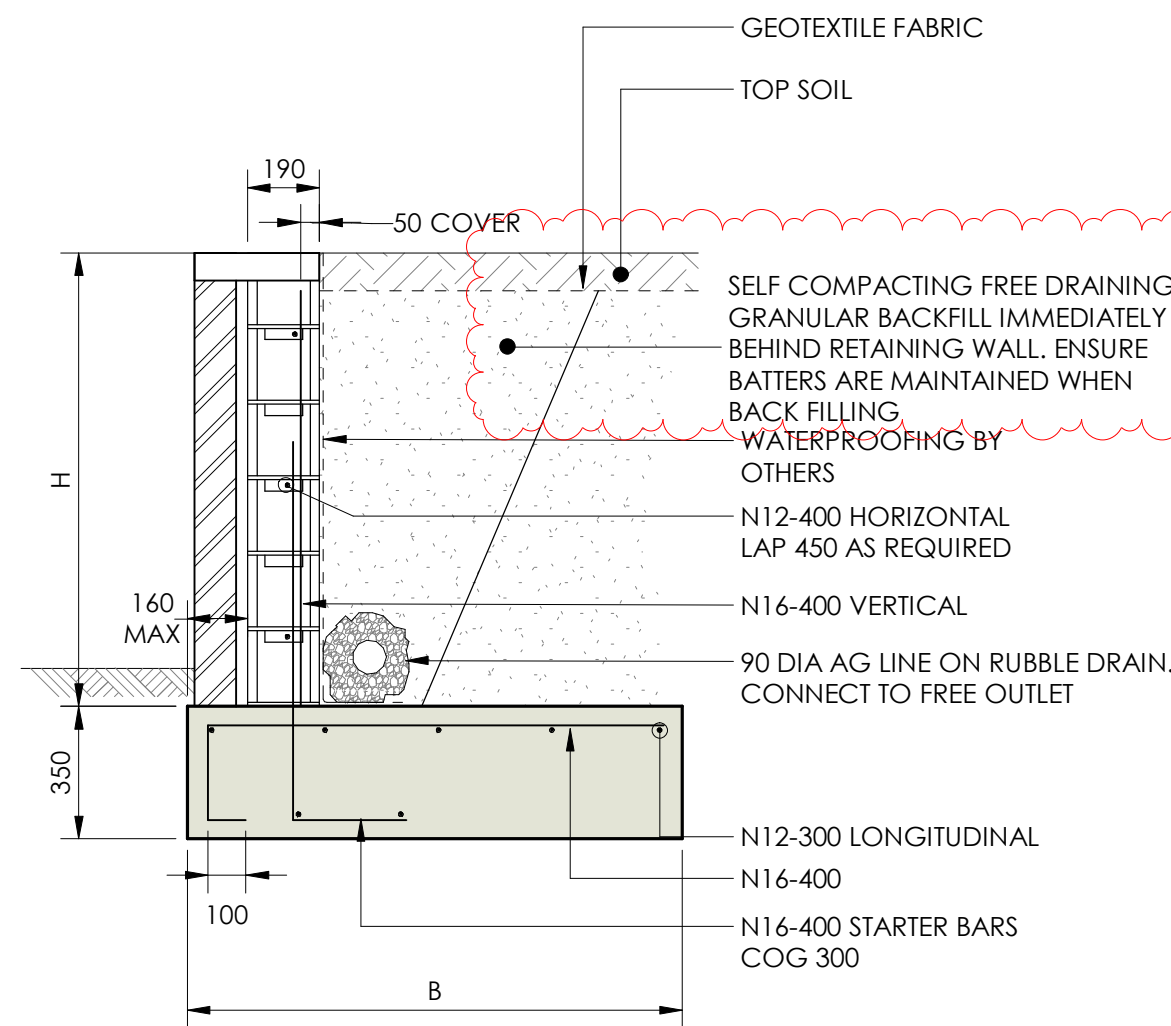
No	DATE	BY	DESCRIPTION
C	13.10.20	LAP	REVISED AS CLOUDED
B	01.05.20	LAP	ISSUED FOR REVISED CONSTRUCTION
A	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
1	12.03.20	MA	ISSUED FOR 100% DD



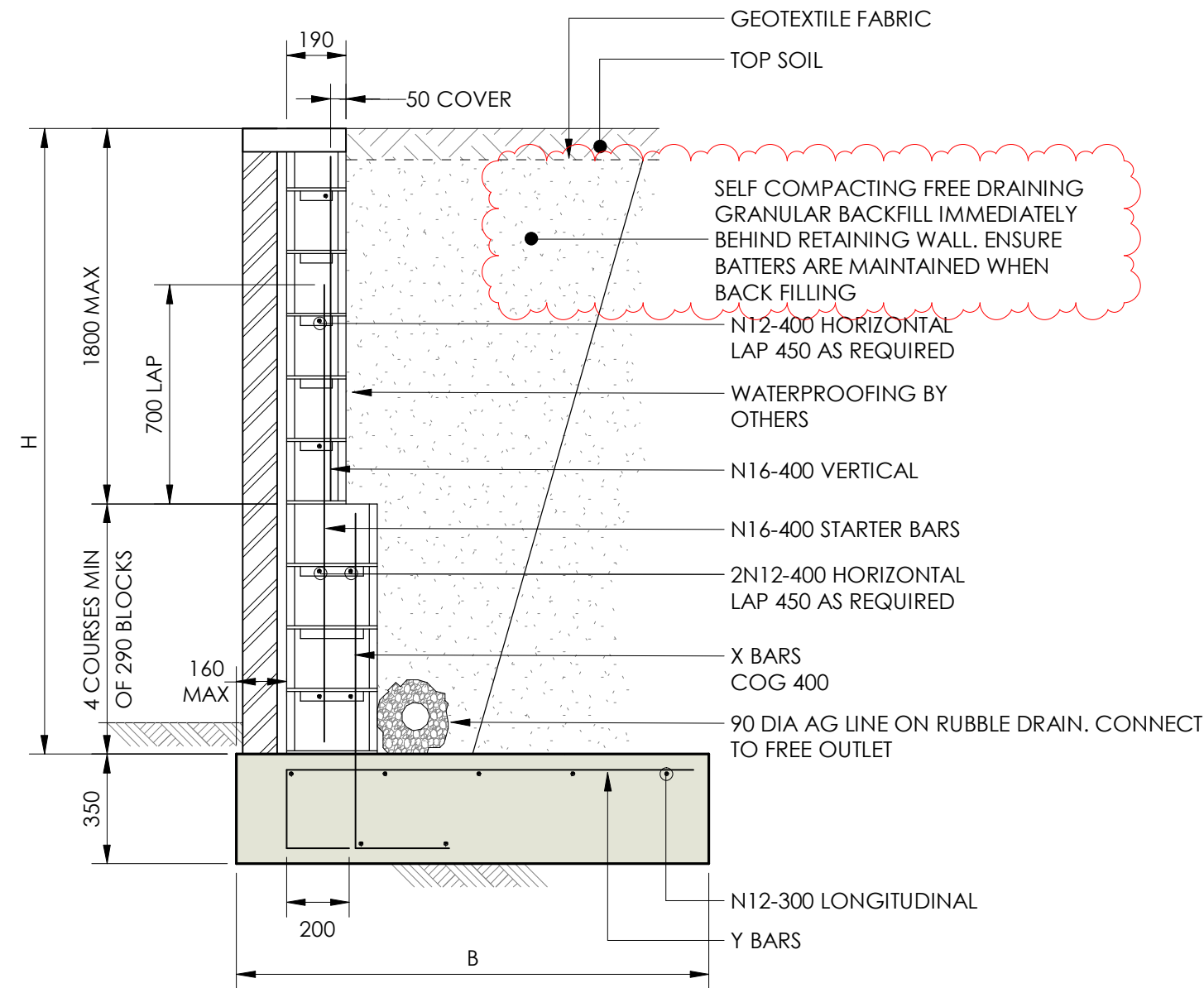
H = 800mm MAX



H = 1000mm - 1800mm MAX



H = 1000mm - 1800mm MAX



H = 1800mm - 3400mm MAX

TYPICAL CONCRETE RETAINING WALL DETAIL - RW1

SCALE 1 : 20

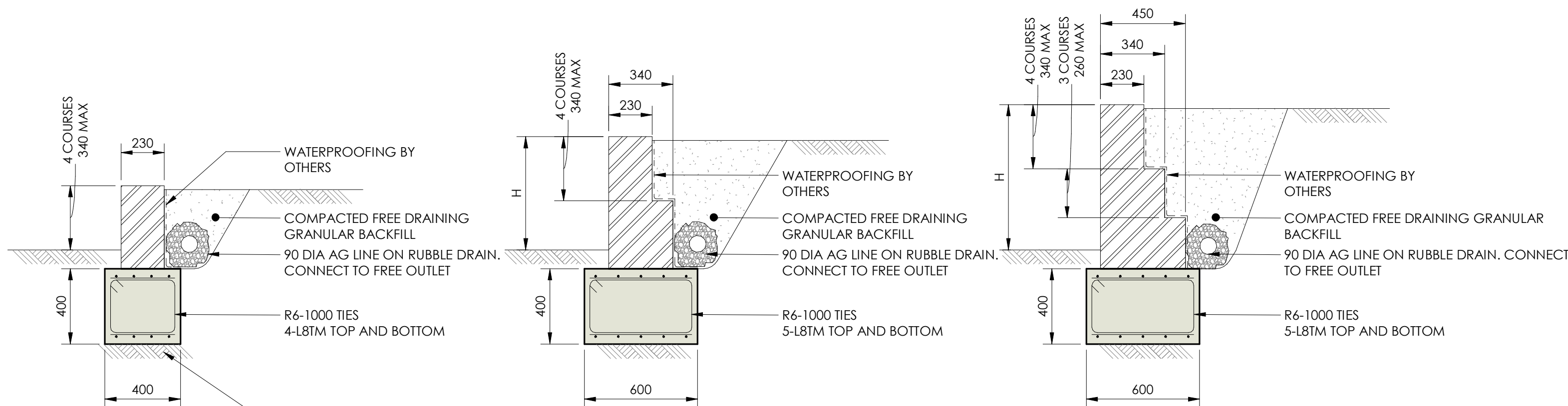
WALL HEIGHT (H)	BASE WIDTH (B)
UP TO 1000	800
UP TO 1200	900
UP TO 1400	1000
UP TO 1600	1100
UP TO 1800	1200

WALL HEIGHT (H)	BASE WIDTH (B)	STARTER BARS (X)	FOOTING BARS (Y)
UP TO 2000	1400	N16-400	N16-400
UP TO 2200	1500	N16-400	N16-400
UP TO 2400	1700	N16-400	N16-400
UP TO 2600	1800	N16-400	N16-400
UP TO 2800	2000	N16-200	N16-200
UP TO 3000	2100	N16-200	N16-200
UP TO 3200	2300	N20-200	N20-200
UP TO 3400	2500	N20-200	N20-200

TYPICAL BLOCK RETAINING WALL DETAILS -RW2

SCALE 1 : 20

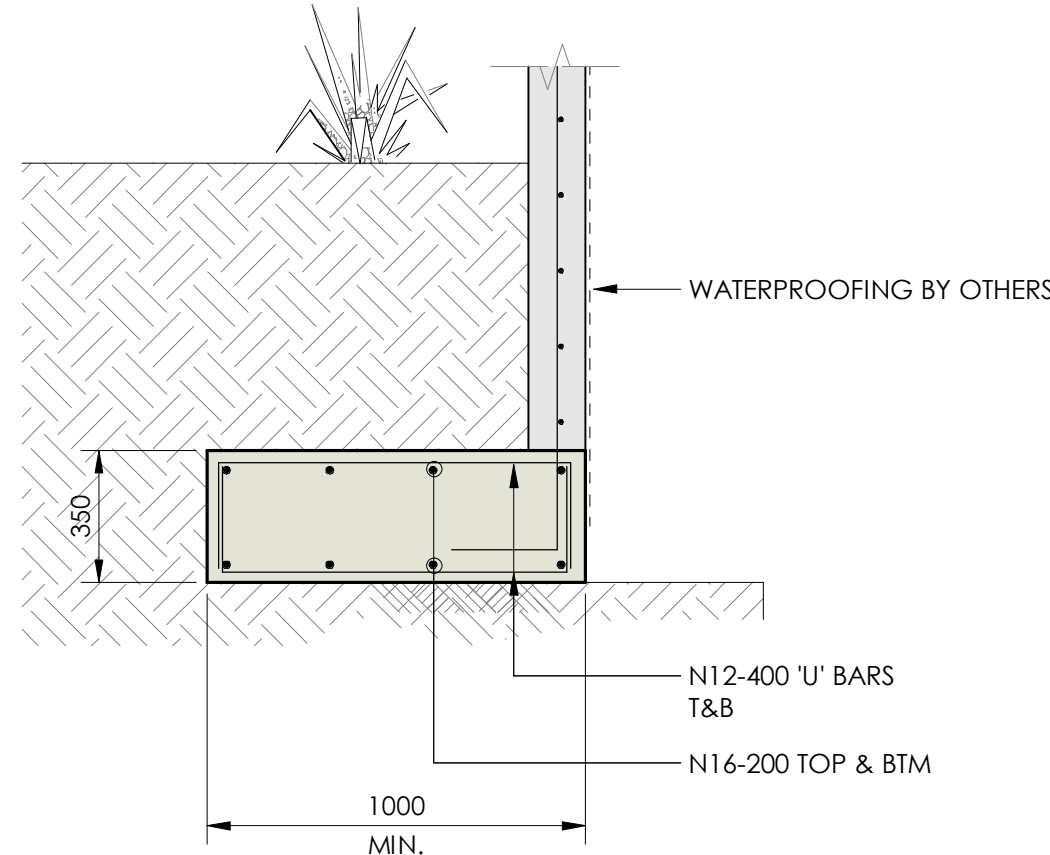
NOTE: REFER TO ARCHITECTS DOCUMENTS FOR FACEBRICK LOCATIONS. WHERE NO FACEBRICK IS REQUIRED DETAILS REMAIN THE SAME.



H = 340mm MAX

H = 600mm MAX

H = 770mm MAX

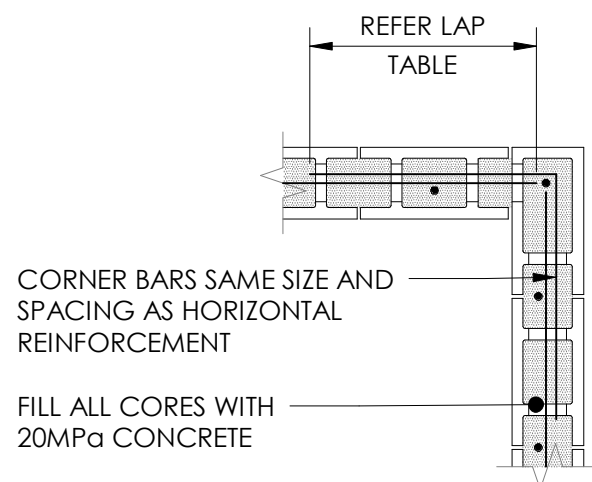


TYPICAL CONCRETE RETAINING WALL DETAIL - RW4

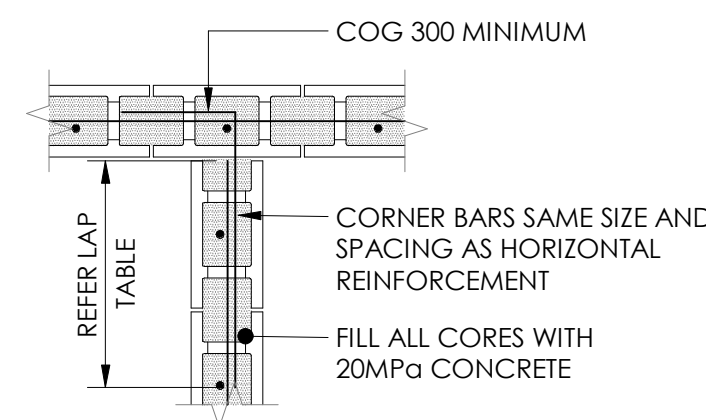
SCALE 1 : 20

TYPICAL BRICK RETAINING WALL DETAILS - RW3

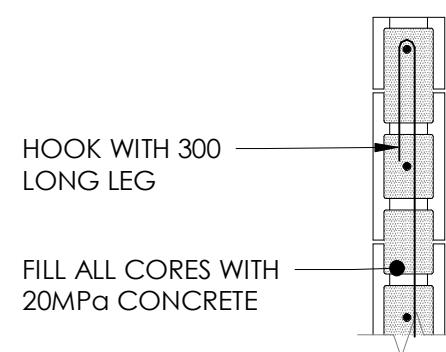
SCALE 1 : 20



TYPICAL CORNER DETAIL



TYPICAL JUNCTION DETAIL



TYPICAL END DETAIL

BLOCK WALL PLAN DETAILS

SCALE 1 : 20

STRUCTURAL WALL SCHEDULE				
TAG	WIDTH	TYPE	REO-HORIZ.	REO-VERT.
BW1	190	BLOCKWORK	N12-400 CENT.	N12-400 CENT.
LW1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.
RW1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.
RW2	190	BLOCKWORK	REFER S040	REFER S040
RW3	230	BRICKWORK	REFER S040	REFER S040
RW4	150	CONCRETE	N16-200 CENT	N16-200 CENT
W1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.

No	DATE	BY	DESCRIPTION
B	01.05.20	LAP	ISSUED FOR REVISED CONSTRUCTION
A	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
1	12.03.20	MA	ISSUED FOR 100% DD



2020



CLIENT
ICON CO

STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
RETAINING WALL DETAILS

PROJECT
GREYSTANES PUBLIC SCHOOL

ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

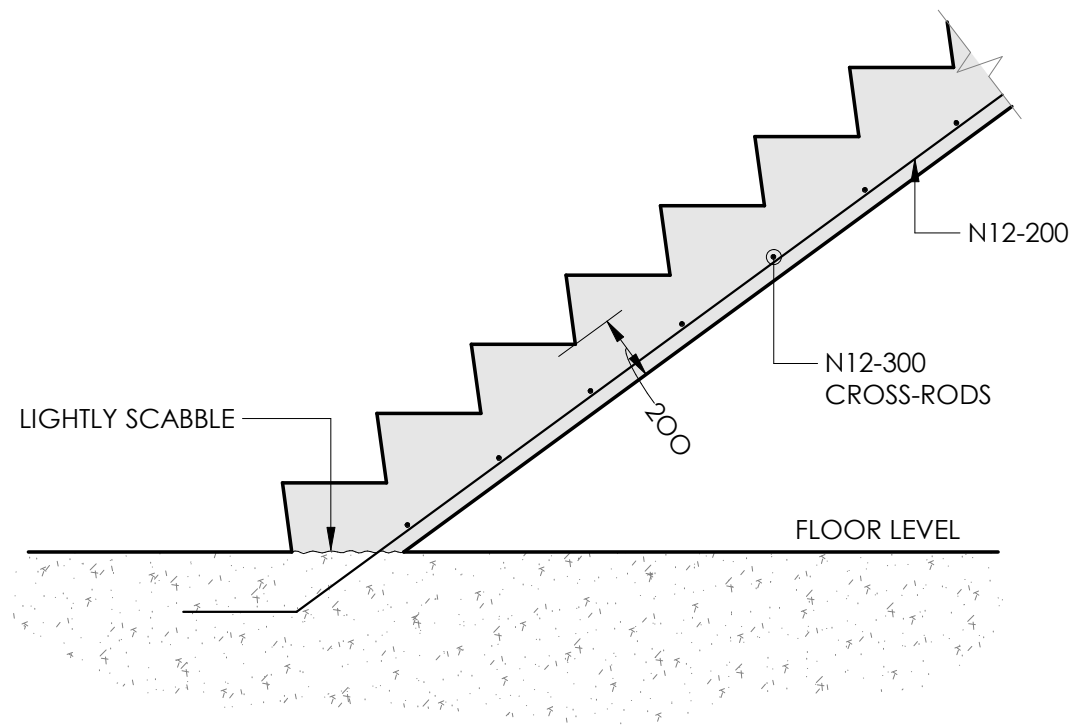
PROJECT DETAILS
DESIGN
DRAWN
DATE
DRG SIZE
SCALE
PROJECT
MGR
CG
MA
JULY 2017
A1
1 : 20
AD
WWW.JN.COM.AU

N0200031
S040
B

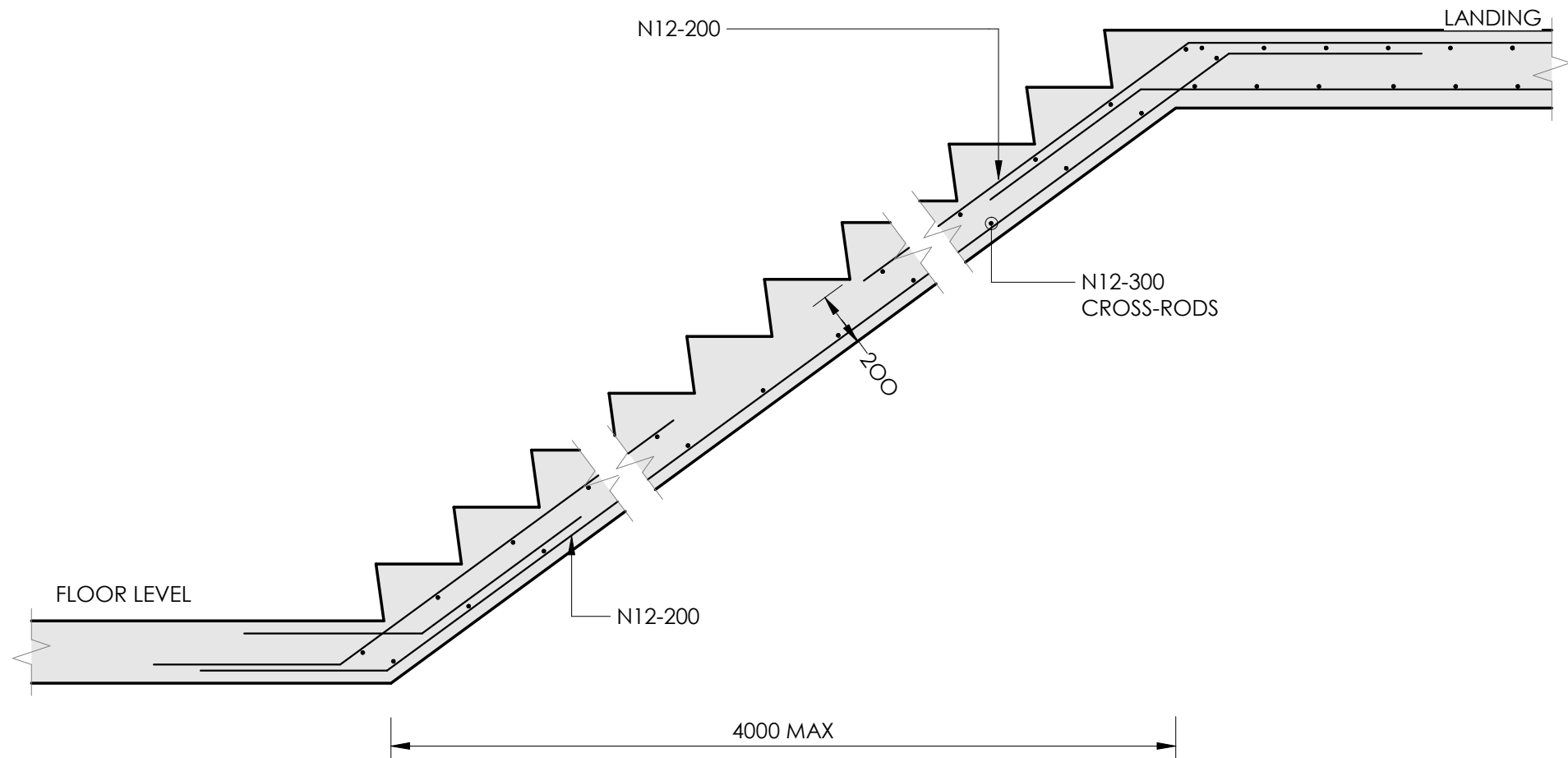


PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE As indicated
PROJECT AD
MGR
WWW.JN.COM.AU

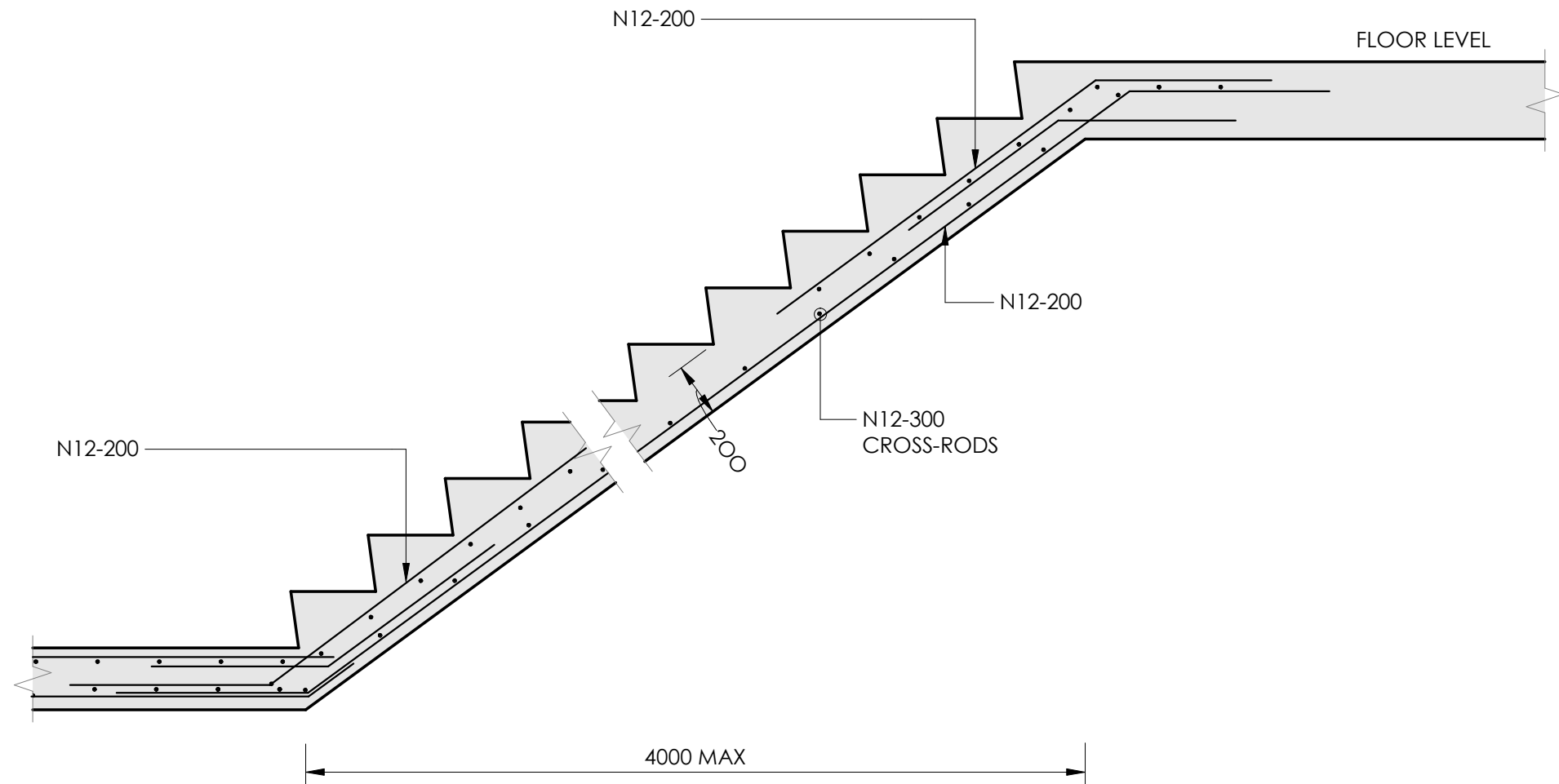
N0200031
S050 A



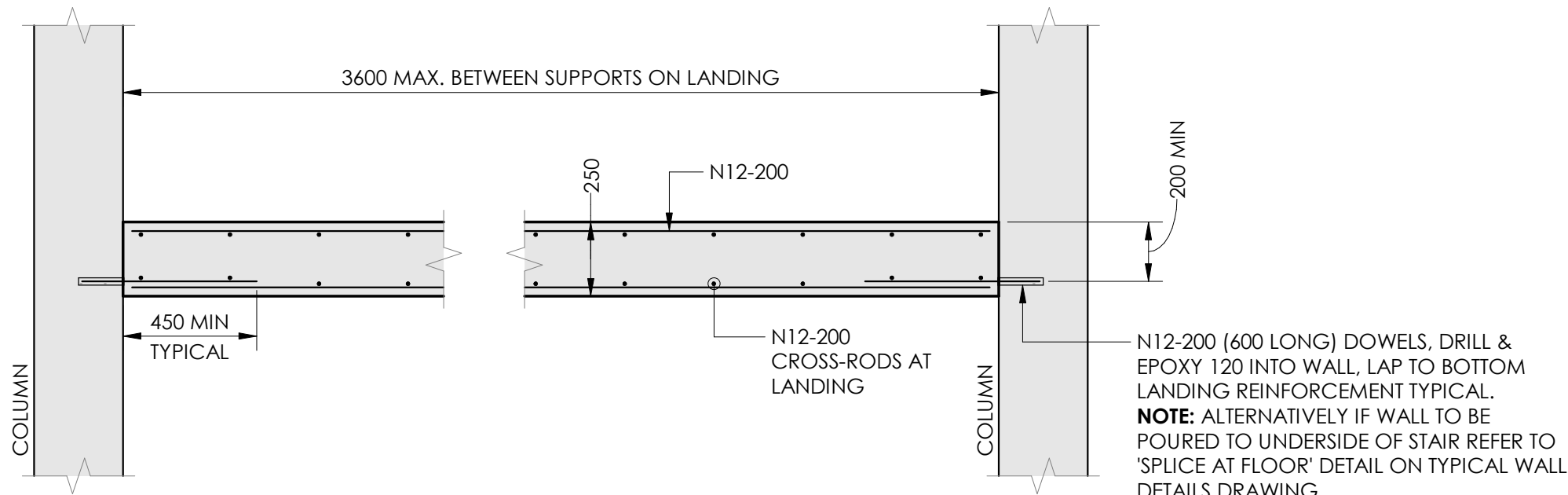
TYPICAL FIRST FLIGHT DETAIL



TYPICAL FLIGHT TO LANDING
DETAIL



TYPICAL FLIGHT TO FLOOR LEVEL
DETAIL



TYPICAL LANDING DETAIL

TYPICAL STAIR DETAILS
SCALE 1 : 20

A	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
1	12.03.20	MA	ISSUED FOR 100% DD
No	DATE	BY	DESCRIPTION



2020



CLIENT
ICON CO

STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THE DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THE DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN

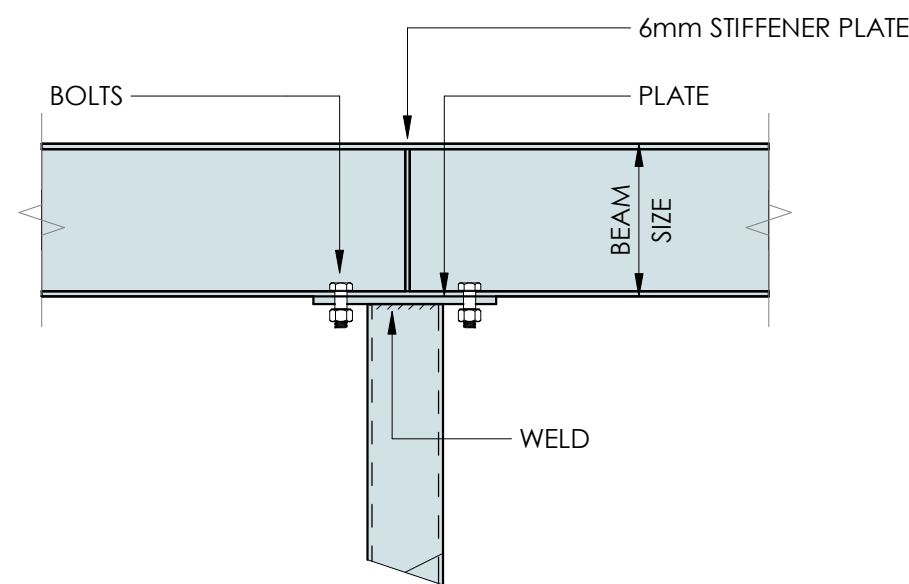
DRAWING TITLE
STAIR DETAILS

PROJECT
GREYSTANES PUBLIC SCHOOL

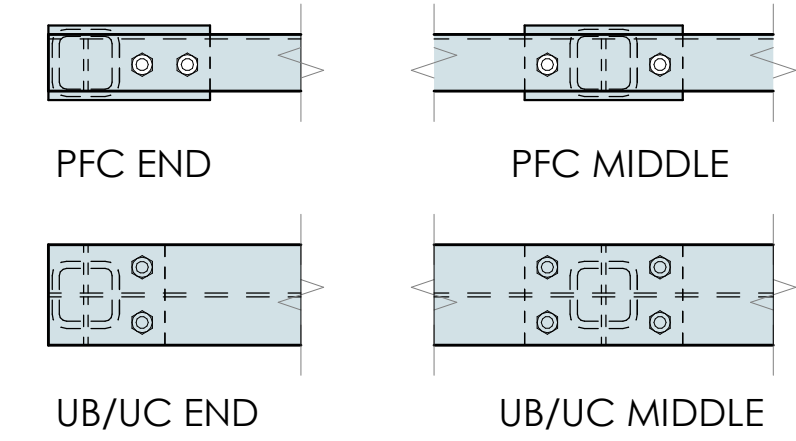
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 20
PROJECT AD
MGR
WWW.JN.COM.AU

N0200031
S060 A



SECTION VIEW



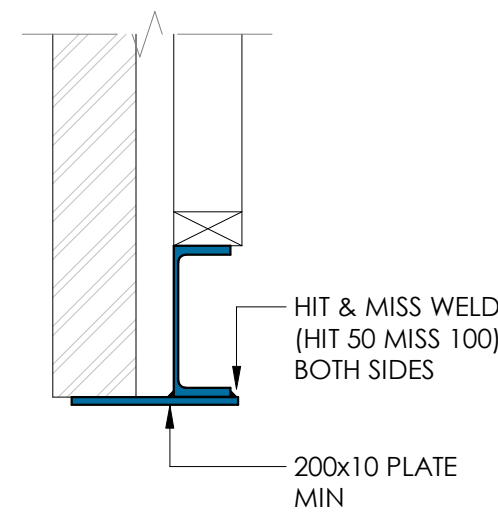
PLAN VIEW

TYPICAL CONNECTION SCHEDULE FOR UB, UC & CAP PLATE CONNECTIONS			
BEAM SIZE	PLATE	BOLTS	WELD
100-150	8mm	M10	6mm
180	10mm	M12	6mm
200-250	10mm	M20	6mm
300-460	10mm	M20	6mm
530-610	16mm	M20	6mm

- NOTE:
- ALL WELDS TO BE CONTINUOUS FILLET WELD ALONG ONE SIDE OF THE PLATE
 - M10-M12 BOLTS TO BE COMMERCIAL BOLTS PROPERTY CLASS 4.6 U.N.O.
 - M16-M36 BOLTS TO BE STRUCTURAL BOLTS PROPERTY CLASS 8.8 U.N.O.
 - ALL BOLTS TO BE SNUG-TIGHT (4.6/S & 8.8/S) U.N.O.

TYPICAL CAP PLATE DETAIL

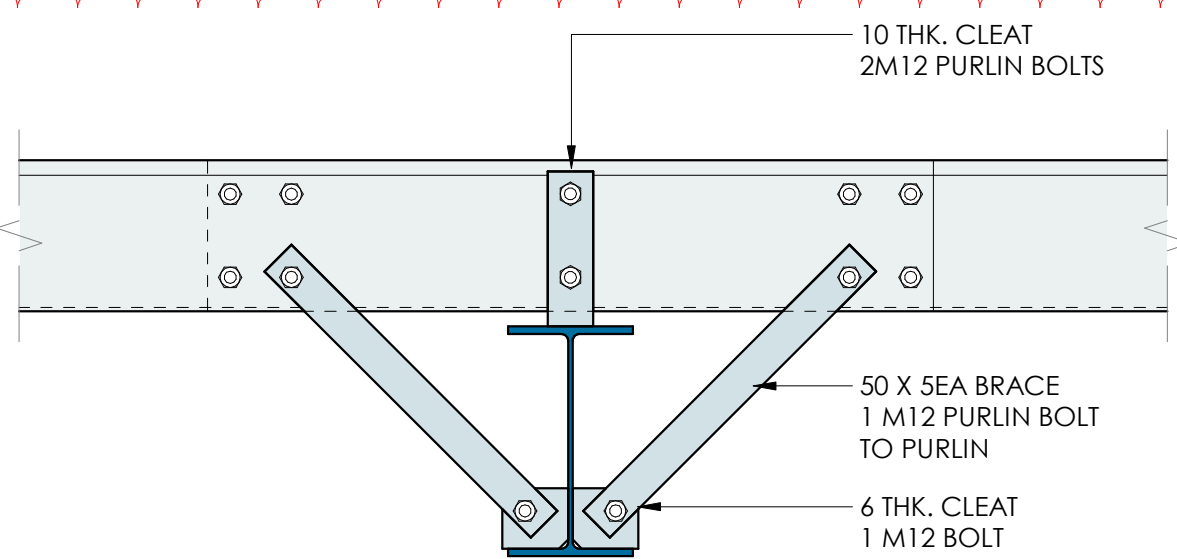
SCALE 1 : 10



HOT DIP GALVANISED AFTER FABRICATION

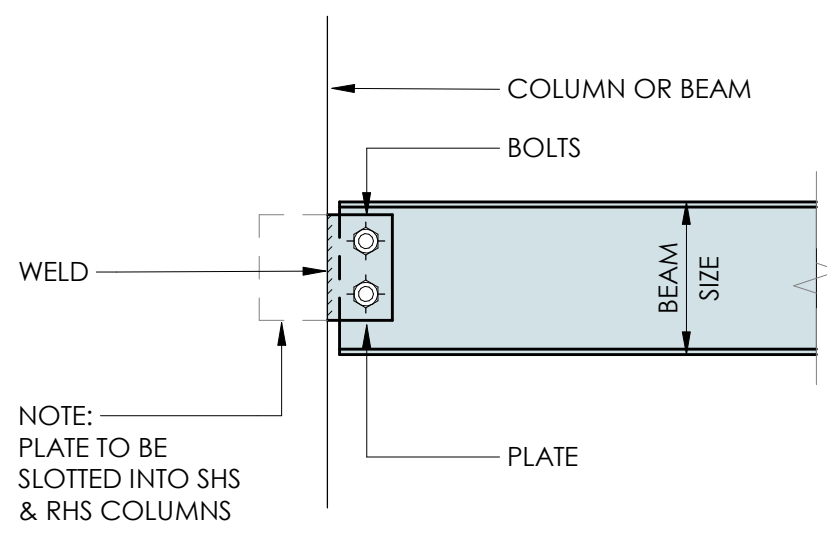
TYPICAL LINTEL DETAIL

SCALE 1 : 10



TYPICAL FLY BRACING DETAILS

SCALE 1 : 10



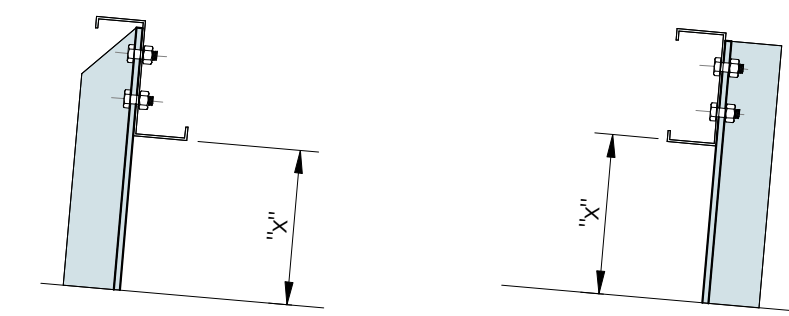
SECTION VIEW

TYPICAL CONNECTION FOR UB, UC & PFC BEAM TO FIN PLATE CONNECTIONS			
BEAM SIZE	PLATE	BOLTS	WELD
100	10mm	2M10	6mm
125-150	10mm	2M16	6mm
180-230	10mm	2M20	6mm
250-310	10mm	3M20	6mm
360	10mm	4M20	6mm
410-460	10mm	5M20	6mm

- NOTE:
- ALL WELDS TO BE CONTINUOUS FILLET WELD ALONG ONE SIDE OF THE PLATE
 - M10-M12 BOLTS TO BE COMMERCIAL BOLTS PROPERTY CLASS 4.6 U.N.O.
 - M16-M36 BOLTS TO BE STRUCTURAL BOLTS PROPERTY CLASS 8.8 U.N.O.
 - ALL BOLTS TO BE SNUG-TIGHT (4.6/S & 8.8/S) U.N.O.

TYPICAL CLEAT PLATE DETAIL

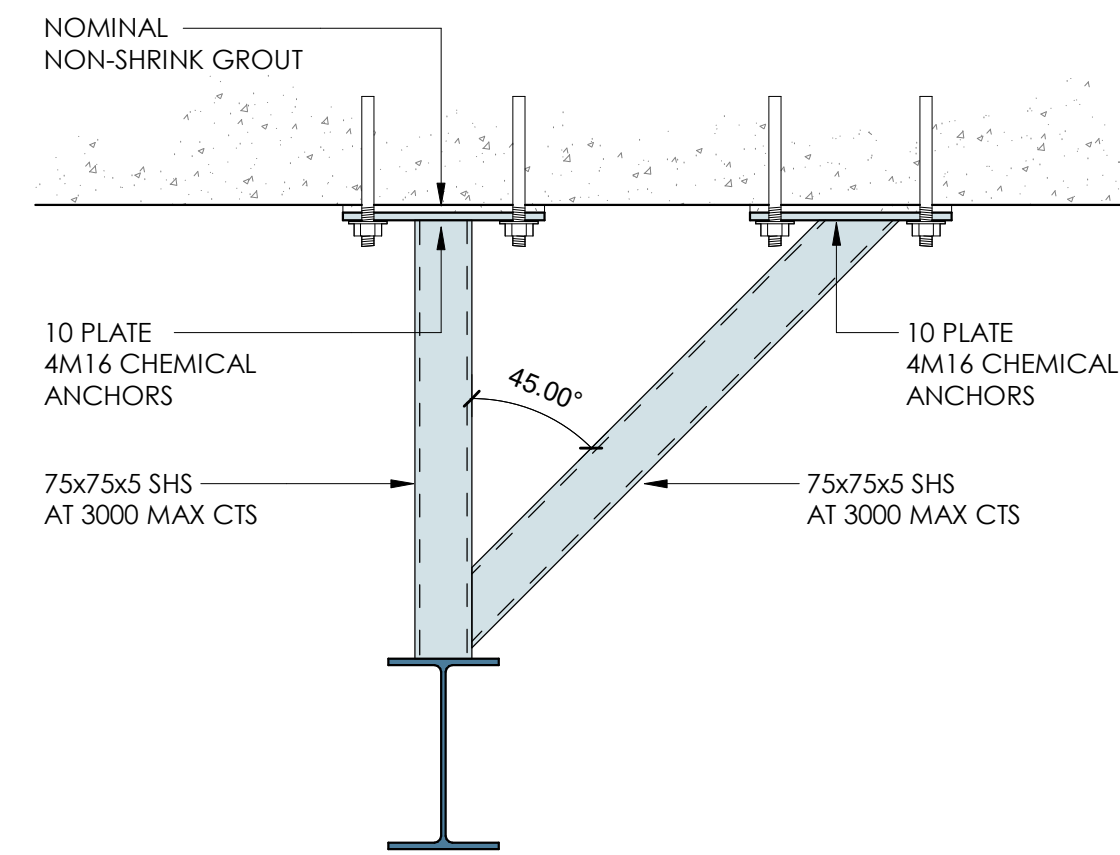
SCALE 1 : 10



DIMENSION "X"	PURLIN CLEAT SCHEDULE	
	MINIMUM CLEAT SIZES	
Up to 50	AT SPLICE	CONTINUOUS
	130 x 8 PLATE	75 x 8 PLATE
Up to 100	AT SPLICE	CONTINUOUS
	130 x 10 PLATE	75 x 10 PLATE
Up to 150	AT SPLICE	CONTINUOUS
	130 x 12 PLATE	75 x 12 PLATE
Over 150	AT SPLICE	CONTINUOUS
	150 x 90 x 8 ANGLE	75 x 75 x 8 ANGLE

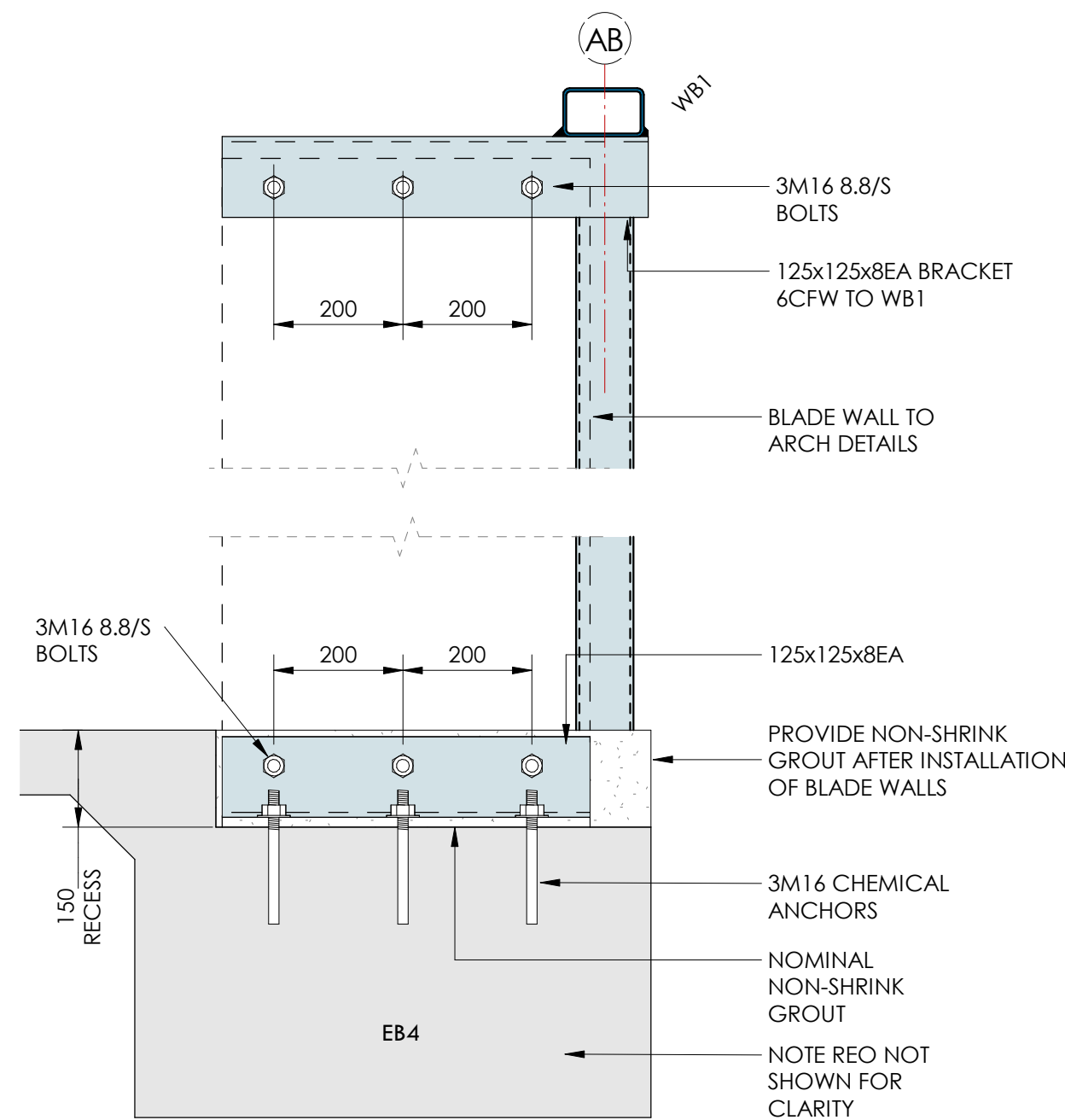
TYPICAL PURLIN CLEAT DETAILS

SCALE 1 : 10



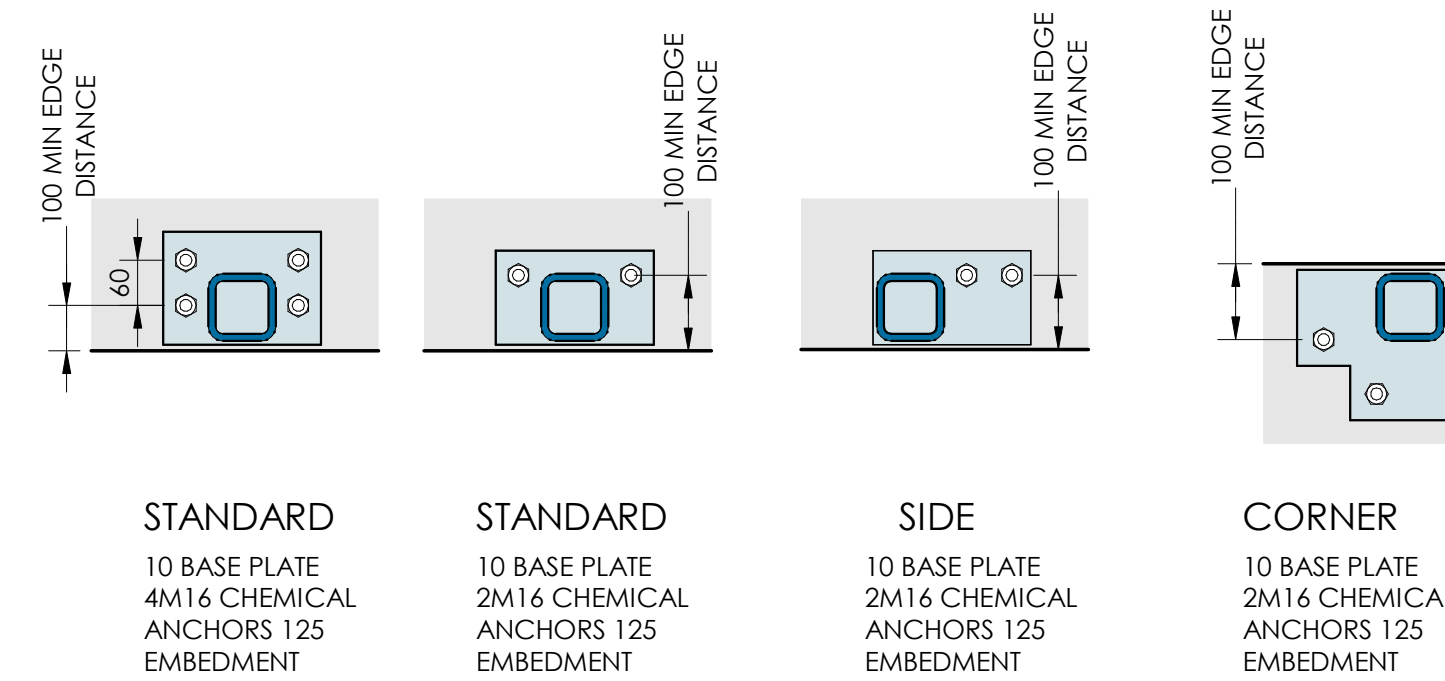
TYPICAL DOOR HEAD DETAIL

SCALE 1 : 10



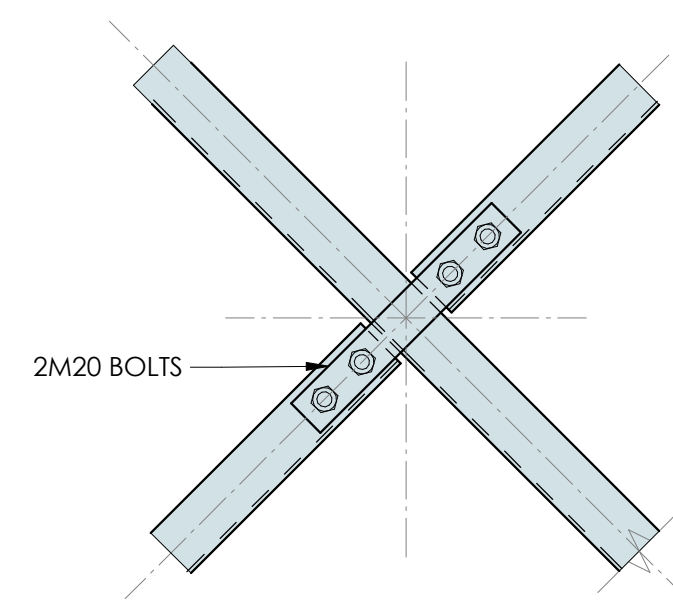
DETAIL A

SCALE 1 : 10



TYPICAL SHS BASE PLATE DETAILS

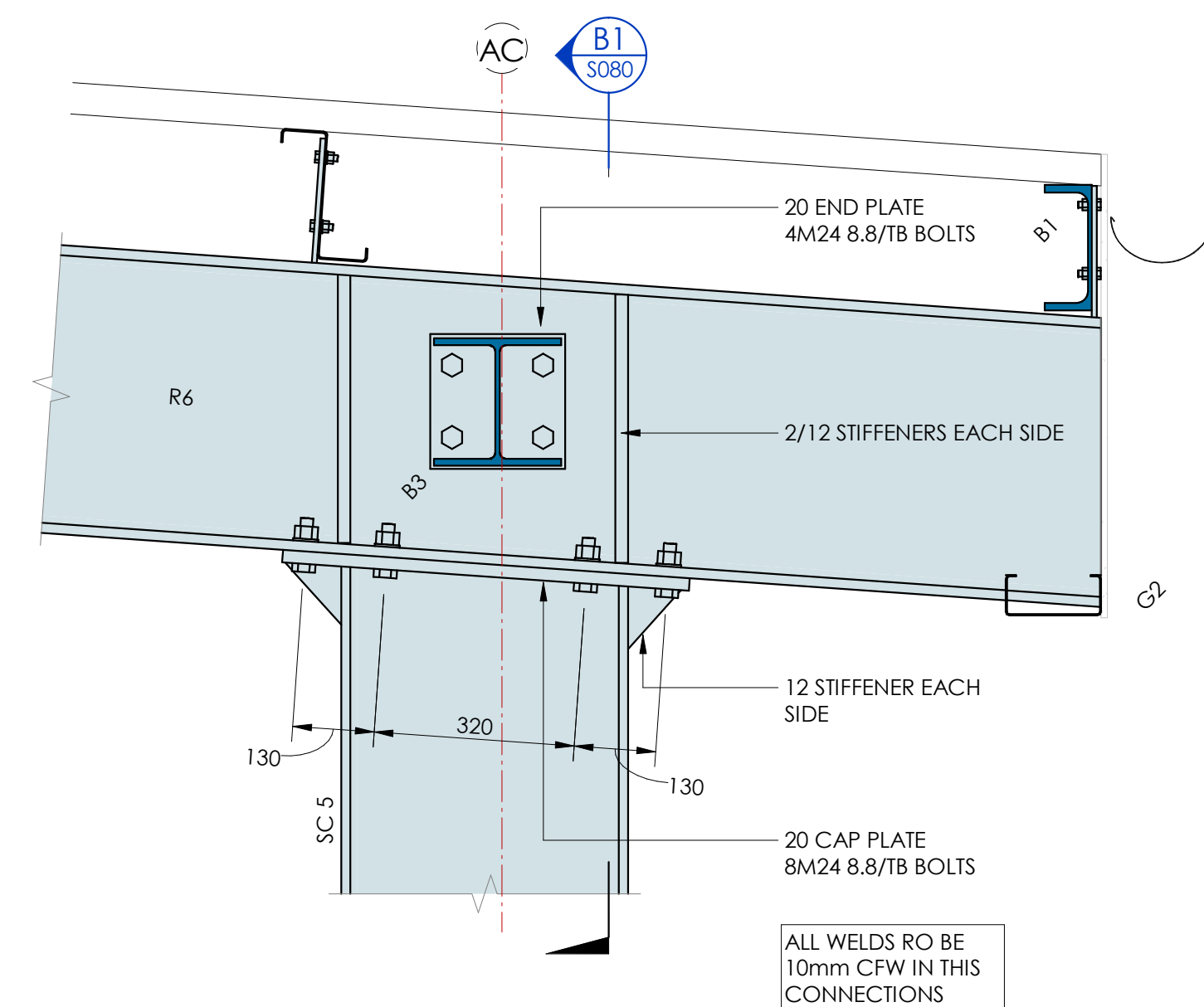
SCALE 1 : 10



TYPICAL ANGLE BRACING INTERSECTION DETAIL
(SECTION VIEW)

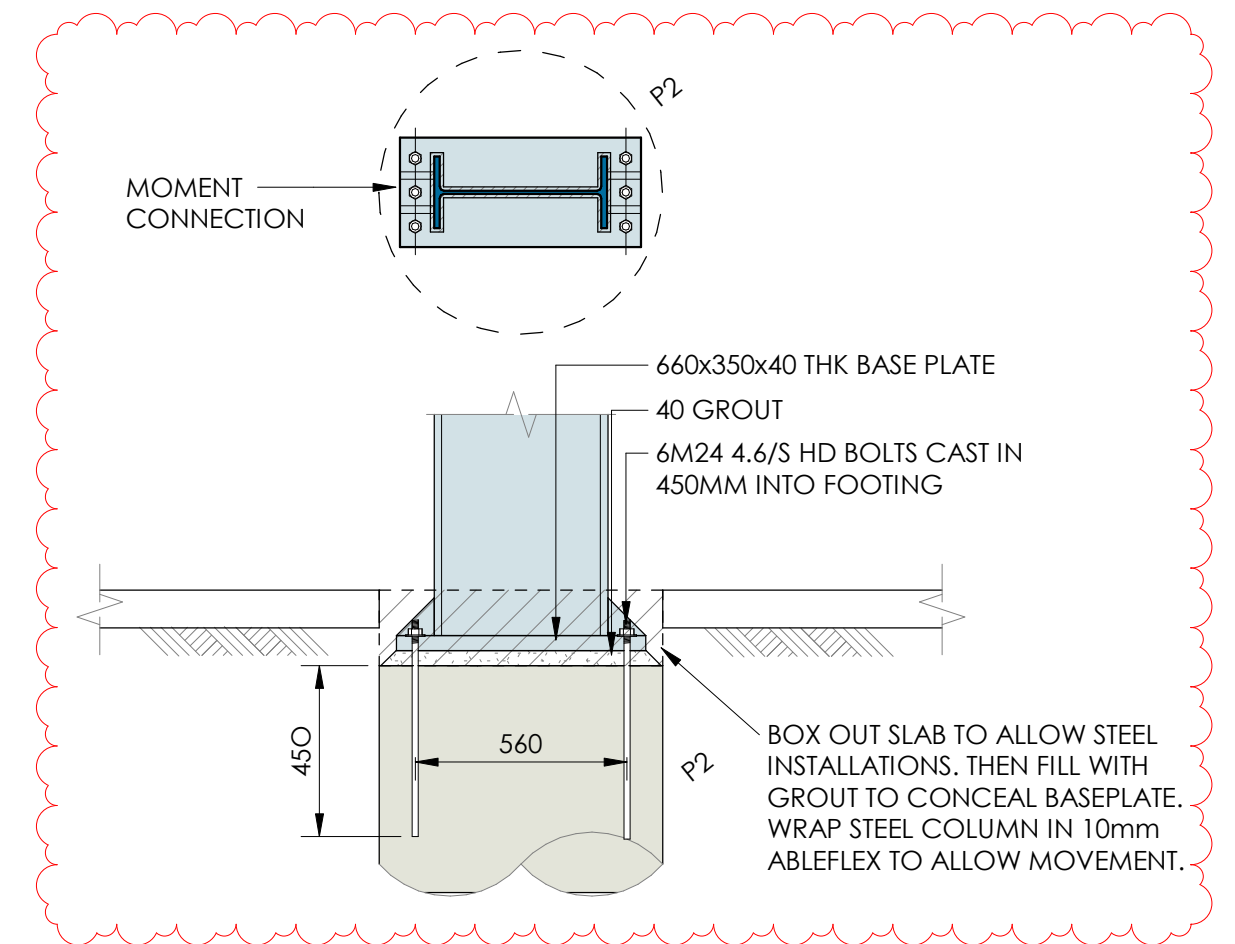
TYPICAL STEELWORK BRACING DETAIL

SCALE 1 : 10



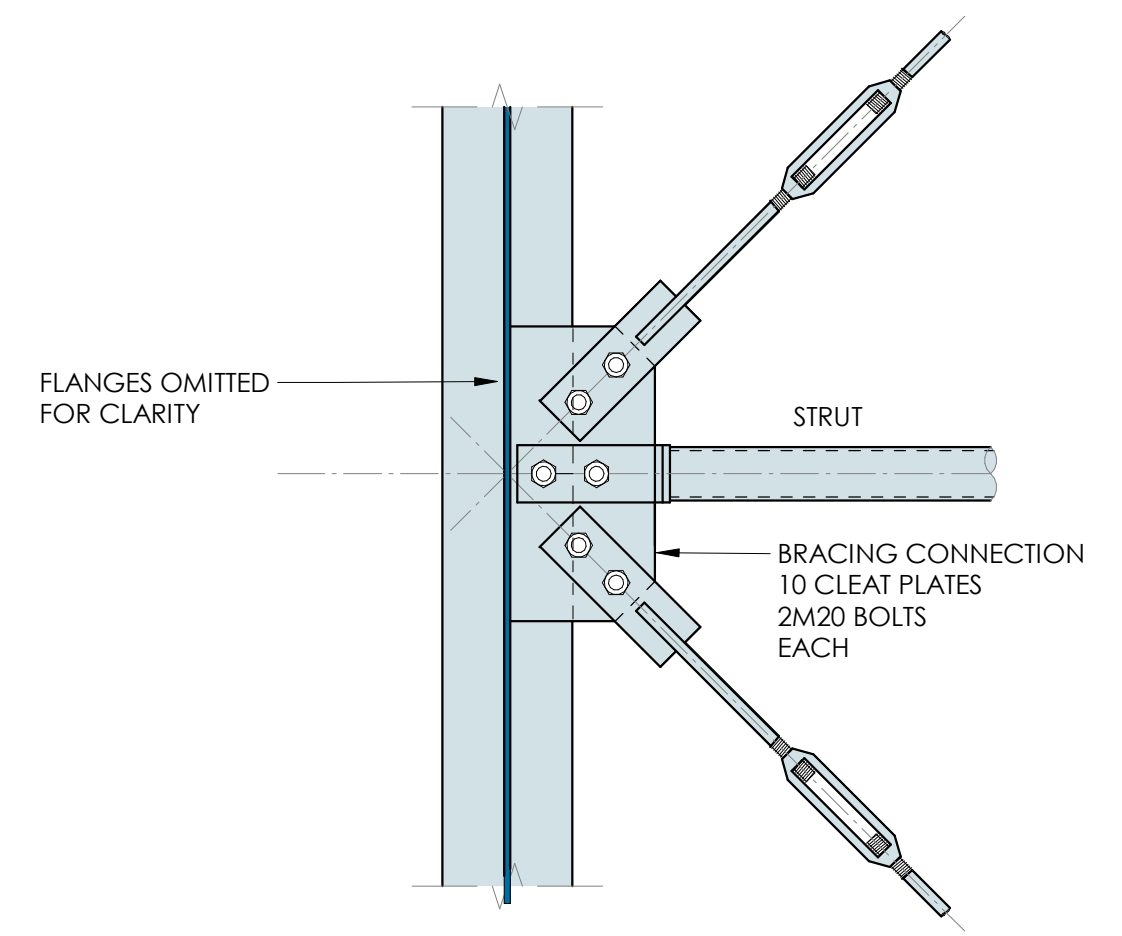
DETAIL B

SCALE 1 : 10



TYPICAL SC5 BASE PLATE DETAIL

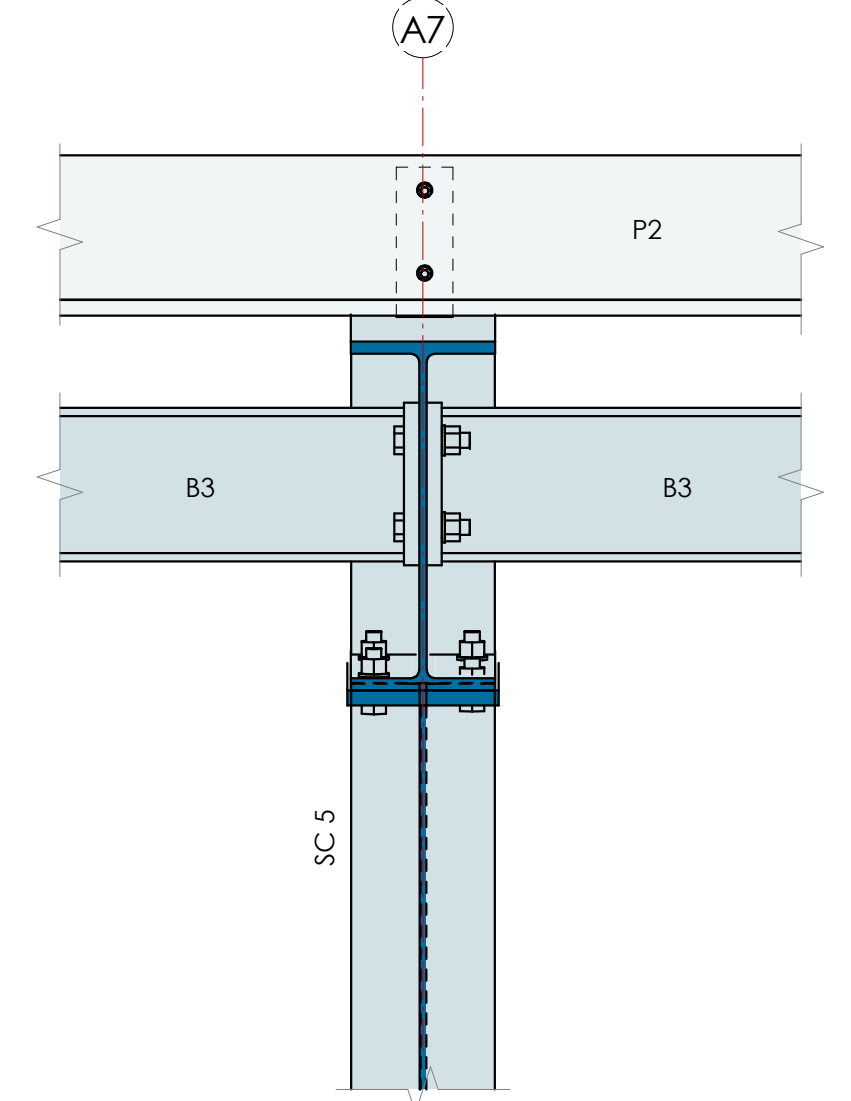
SCALE 1 : 20



TYPICAL ROOF BRACING DETAILS
(PLAN VIEW)

TYPICAL STEELWORK BRACING DETAILS

SCALE 1 : 10



SECTION B1

SCALE 1 : 10

No	DATE	BY	DESCRIPTION
B	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION
1	12.03.20	MA	ISSUED FOR 100% DD



2020



CLIENT
ICON CO
STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
TYPICAL STEEL WORK DETAILS

PROJECT
GREYSTANES PUBLIC SCHOOL

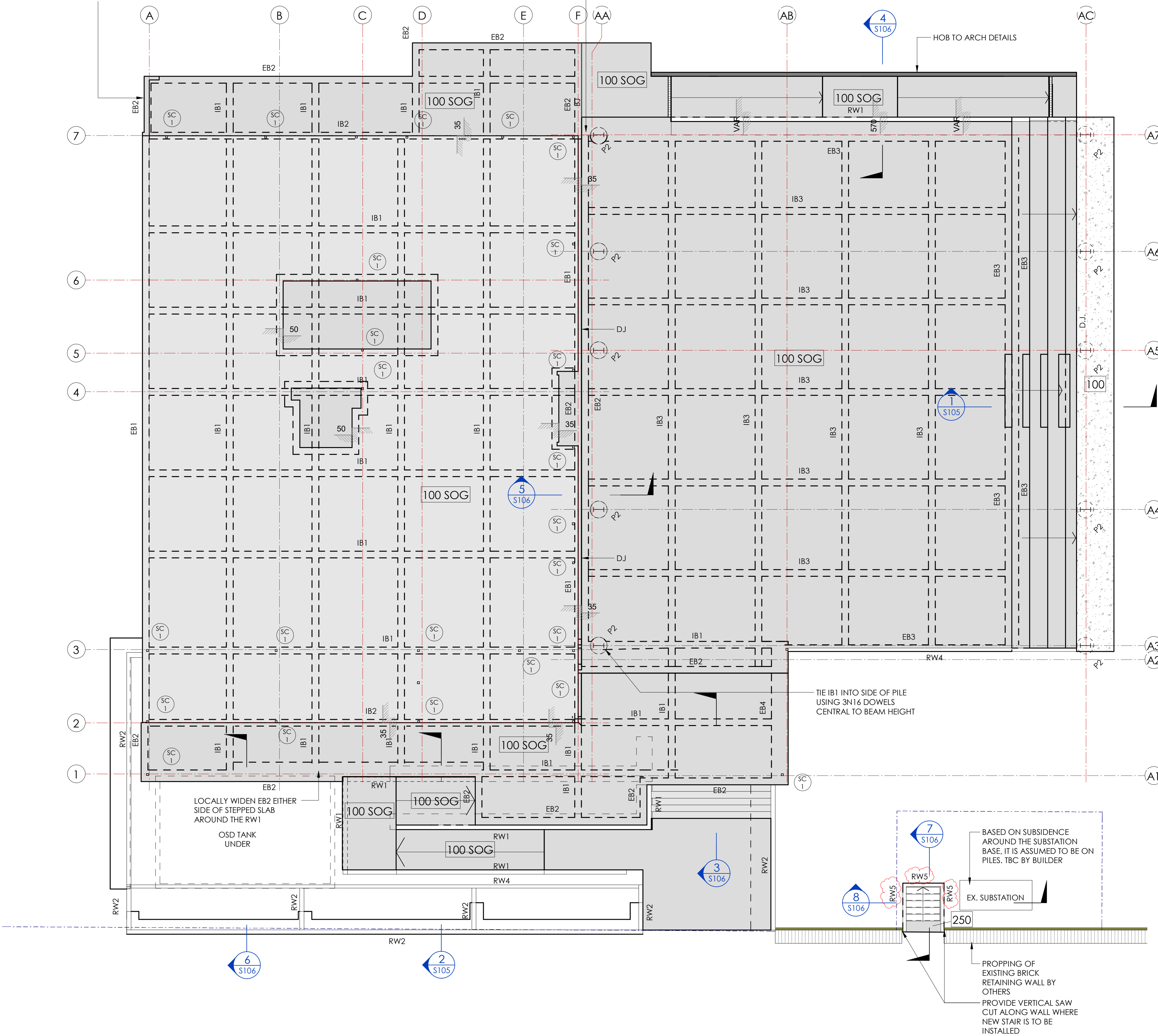
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE As indicated
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S080
B

INCREASE BEAM DEPTH TO SUIT NATURAL
GROUND LEVEL.
REFER RAFT SLAB EDGE BEAM DETAILS (EB)
ON DRAWING S105

LOCALLY WIDEN EB2 AT COLUMN
LOCATIONS TO ALLOW FOR PILE REO &
SC5 HD BOLTS

HOB TO ARCH DETAILS



200	SLAB THICKNESS	CC	COLUMN UNDER
30	STEP	CC	COLUMN OVER
←	SPAN DIRECTION	CC	COLUMN UNDER/OVER

BRICKWORK	DINCEL
BLOCKWORK	PRE-CAST
CONCRETE	AFS

STRUCTURAL PILE SCHEDULE

TAG	DIAMETER	REO VERT.	REO TIES	SOCKET LENGTH	Comments
P2	750	10N24	R10-300	2500	2500 SOCKET INTO 1000 kPa ROCK

STRUCTURAL RAFT FOOTING SCHEDULE

TAG	TYPE	WIDTH	DEPTH	REO BTM	REO TOP	COMMENTS
EB1	EXTERNAL	300	600	3L12TM	2N12	
EB2	EXTERNAL	300	600	3L12TM	2N12	
EB3	EXTERNAL	300	400	3L12TM	2N12	
EB4	EXTERNAL	750	600	2x3L12TM	3N12	
IB1	INTERNAL	300	600	3L12TM	2N12	
IB2	INTERNAL	300	600	3L12TM	2N12	
IB3	INTERNAL	300	400	3L12TM	2N12	

STRUCTURAL COLUMN SCHEDULE

TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

STRUCTURAL WALL SCHEDULE

TAG	WIDTH	TYPE	REO-HORIZ.	REO-VERT.
BW1	190	BLOCKWORK	N12-400 CENT.	N12-400 CENT.
LW1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.
RW1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.
RW2	190	BLOCKWORK	REFER S040	REFER S040
RW3	230	BRICKWORK	REFER S040	REFER S040
RW4	150	CONCRETE	N16-200 CENT	N16-200 CENT
RW5	150	CONCRETE	N12-200 CENT	N12-200 CENT
W1	200	CONCRETE	N12-200 E.F.	N12-200 E.F.
W2	250	CONCRETE	REFER S026	REFER S026

GROUND FLOOR PLAN - ZONE A

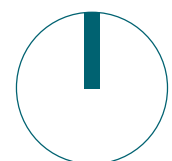
SCALE 1 : 100

- REFER TO ARCHITECTS DRAWINGS FOR ALL LEVELS, STEPS, SETDOWNS, FALLS ETC.
- ALL INTERNAL SLABS TO BE 100mm THICK POURED ON A VAPOUR BARRIER NOMINAL SAND BLINDING ON WELL COMPACTED GROUND U.N.O.
- ALL EXTERNAL SLABS TO BE 100mm THICK POURED ON WELL COMPACTED GROUND U.N.O.
- WHERE ARCHITECTS DRAWINGS INDICATE FALLS IN SLAB, STRUCTURAL SIZES SHOWN ARE THE MINIMUM ALLOWABLE THICKNESS
- ALL SLABS TO BE REINFORCED WITH S192 FABRIC TOP THROUGHOUT U.N.O.
- TR - DENOTES 3N12 (or 3-L11TM) 2000 LONG TIED TO UNDERSIDE OF TOP FABRIC.
- PROVIDE VERTICAL ARTICULATION JOINTS IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE TO SUIT THE SITE AND TYPE OF CONSTRUCTION THIS FOOTING SYSTEM HAS BEEN DESIGNED FOR.
- BASEMENT SLAB DESIGNED FOR FULL UNDER FLOOR DRAINAGE SYSTEM HENCE NO HYDROSTATIC PRESSURE APPLIED TO SLAB. GEOTECHNICAL ENGINEER TO CONFIRM DRAINAGE SYSTEM IS ADEQUATE.

E	09.12.20	LAP	REVISED CONSTRUCTION ISSUE
D	08.12.20	LAP	REVISED CONSTRUCTION ISSUE
C	13.10.20	LAP	REVISED AS CLOUDED
B	25.09.20	LAP	REVISED AS CLOUDED TO SUIT CONDITIONS
A	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
No	DATE	BY	DESCRIPTION

ICON

2020



JN
Responsive Engineering

CLIENT
ICON CO
STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

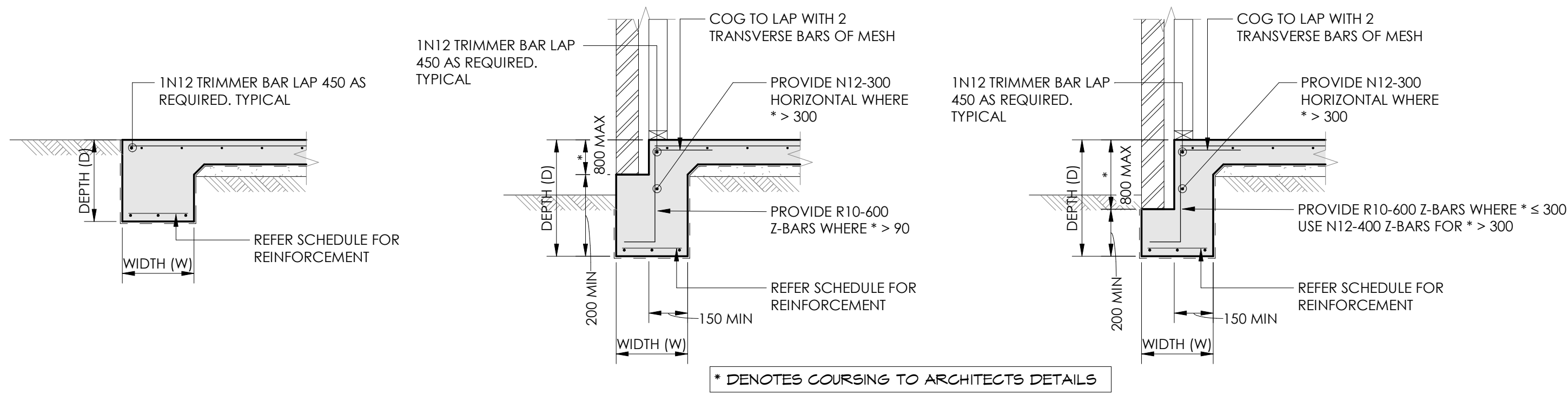
DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
GROUND FLOOR PLAN - ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL

ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN
DRAWN
DATE
DRG SIZE
SCALE
PROJECT
MGR
CG
MA
JULY 2017
A1
As indicated
AD
WWW.JN.COM.AU

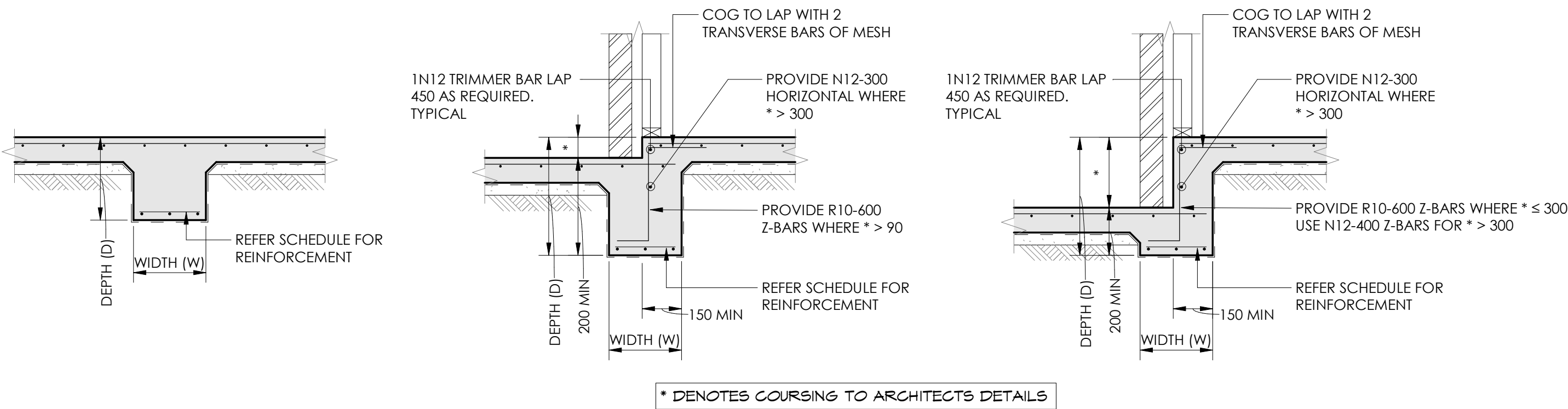
N0200031
S100
E



NOTE:

- DIMENSIONS GIVEN ARE MINIMUM STRUCTURAL DIMENSIONS. ACTUAL DIMENSIONS TO SUIT SITE CONDITIONS TO BE DETERMINED BY CONTRACTOR ON SITE.
- CONTRACTOR TO PROVIDE TIES OR CHAIRS TO SUPPORT TOP REINFORCEMENT AT EDGE BEAMS AS REQUIRED.

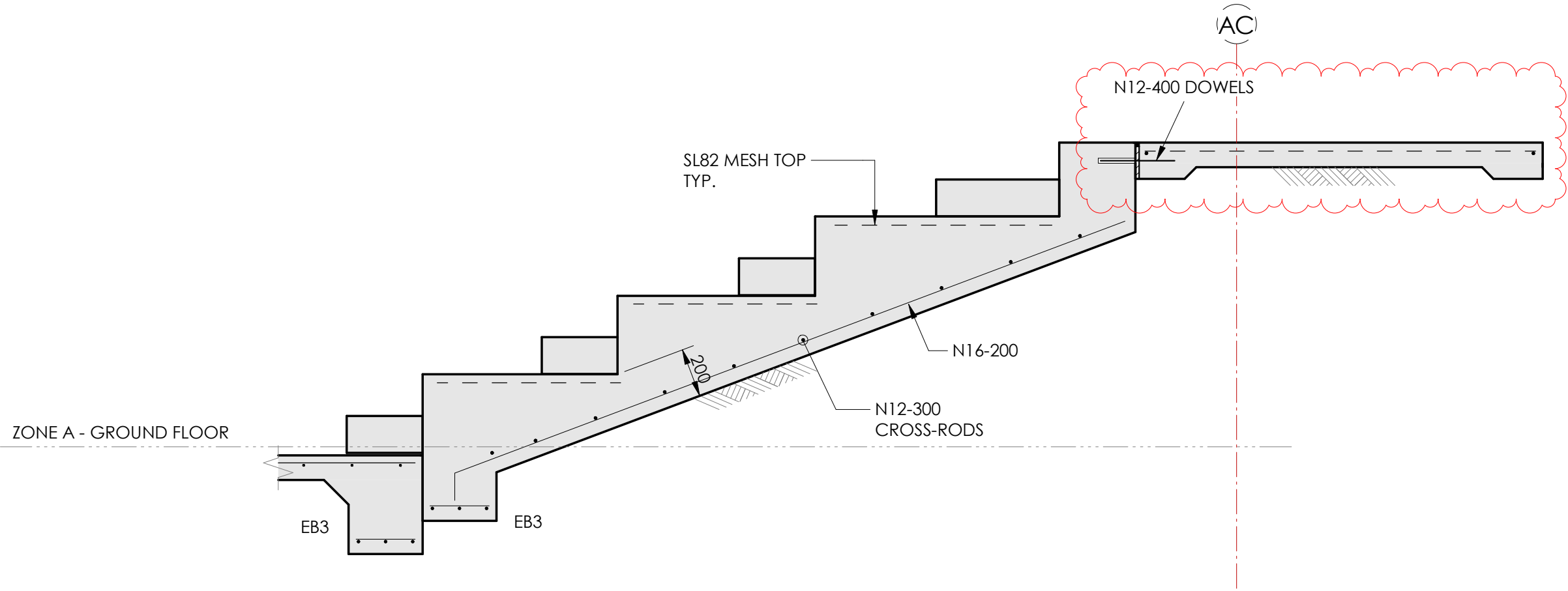
RAFT SLAB EDGE BEAM DETAILS (EB)
SCALE 1 : 20



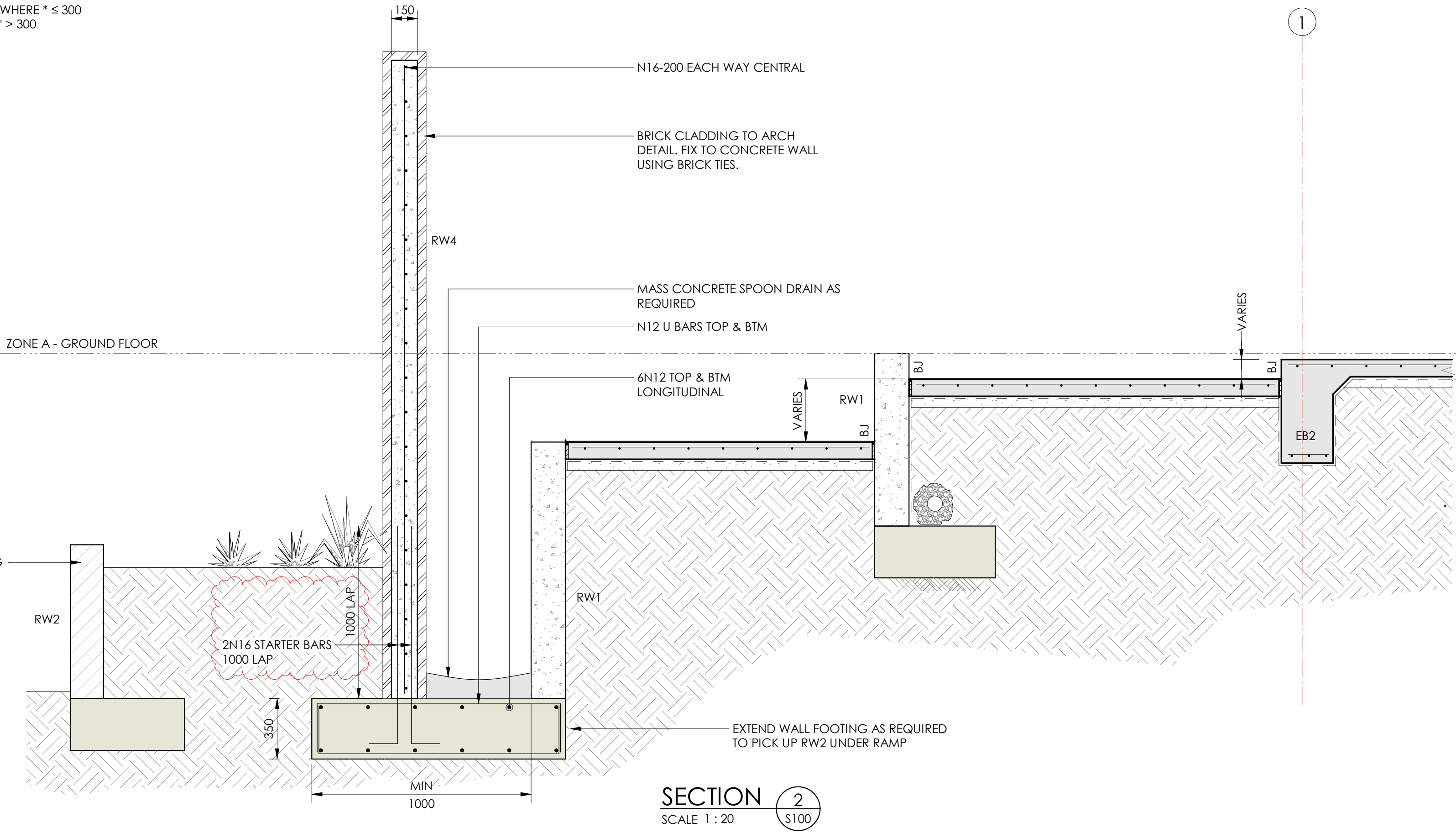
NOTE:

- DIMENSIONS GIVEN ARE MINIMUM STRUCTURAL DIMENSIONS. ACTUAL DIMENSIONS TO SUIT SITE CONDITIONS TO BE DETERMINED BY CONTRACTOR ON SITE.
- CONTRACTOR TO PROVIDE TIES OR CHAIRS TO SUPPORT TOP REINFORCEMENT AT INTERNAL BEAMS AS REQUIRED.

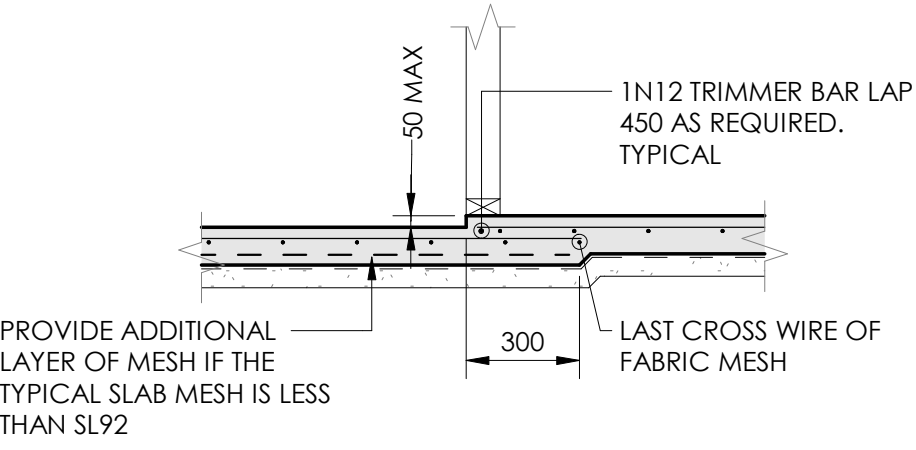
RAFT SLAB INTERNAL BEAM DETAILS (IB)
SCALE 1 : 20



SECTION 1
SCALE 1 : 20



SECTION 2
SCALE 1 : 20



TYPICAL WET AREA SETDOWN DETAIL
SCALE 1 : 20

No	DATE	BY	DESCRIPTION
A	15.04.20	RL	ISSUED FOR CONSTRUCTION
2	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
1	12.03.20	MA	ISSUED FOR 100% DD



2020



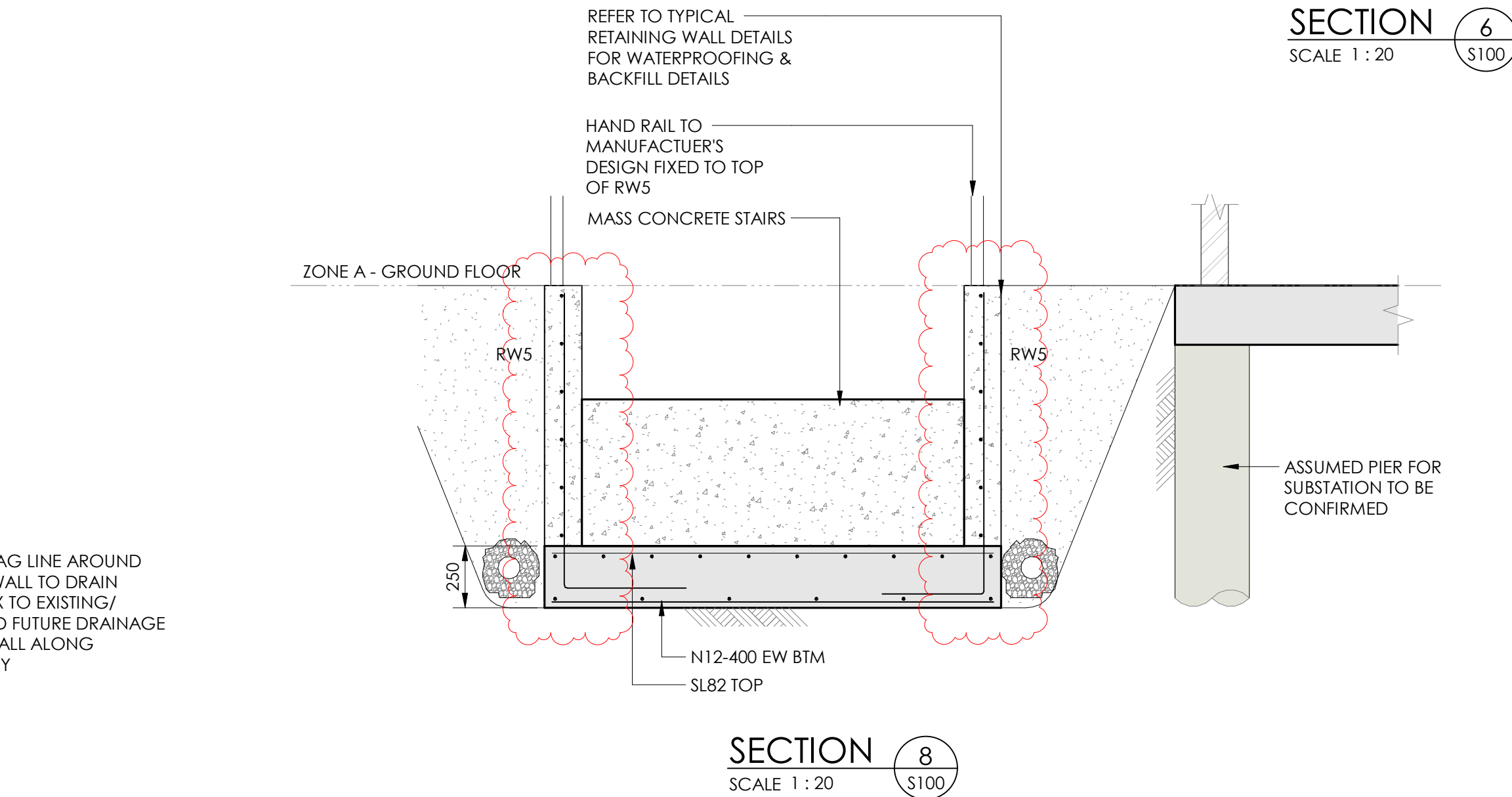
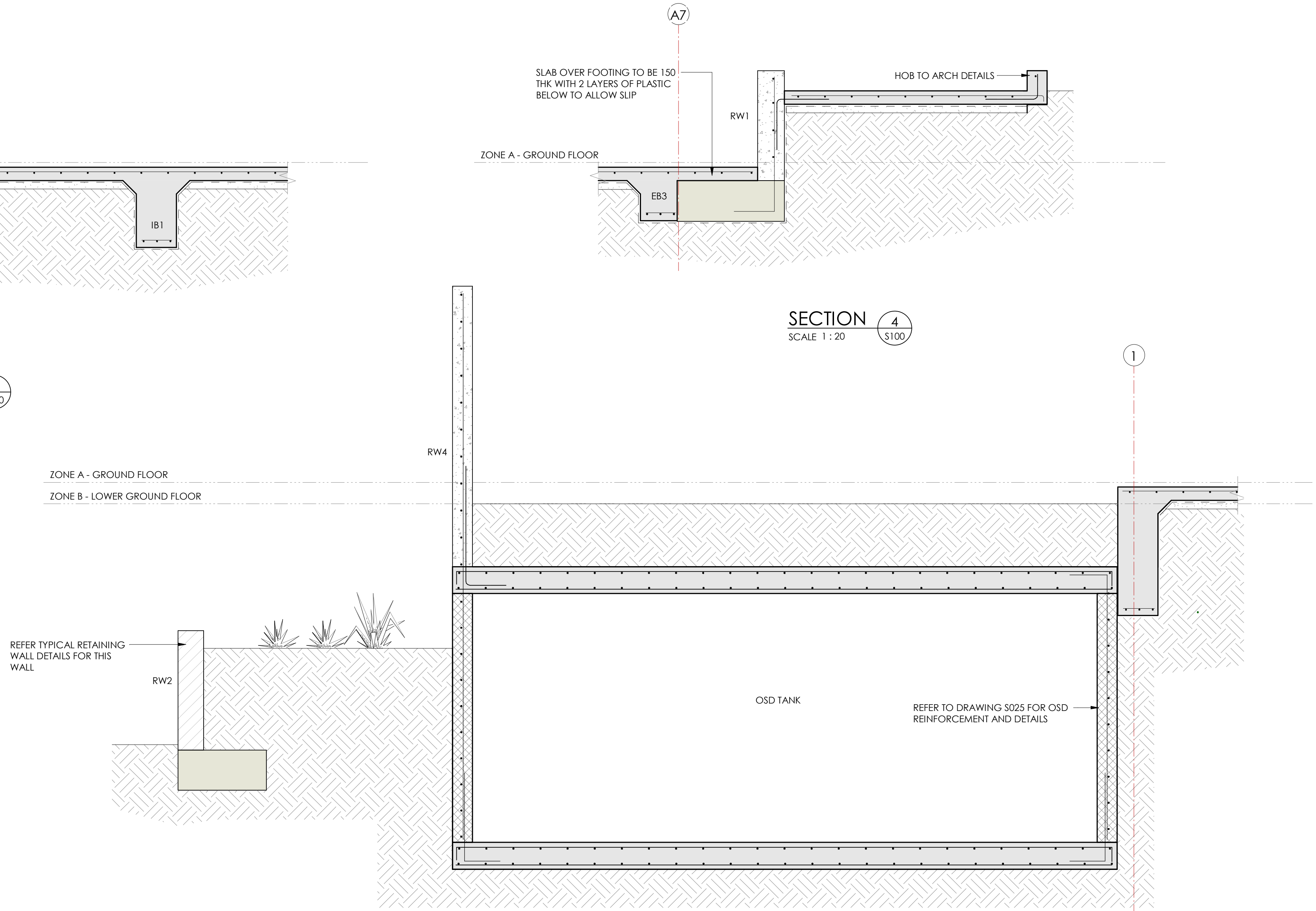
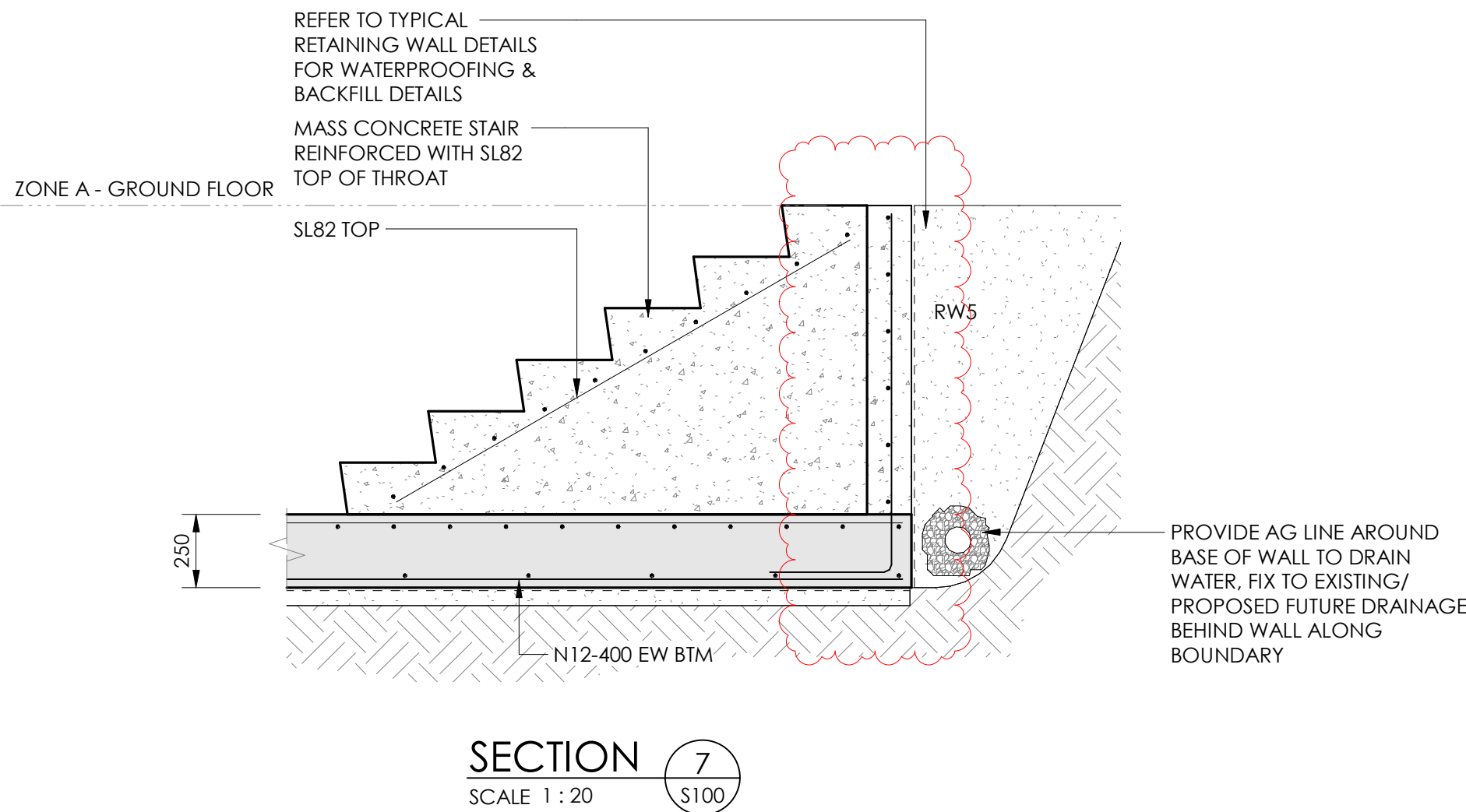
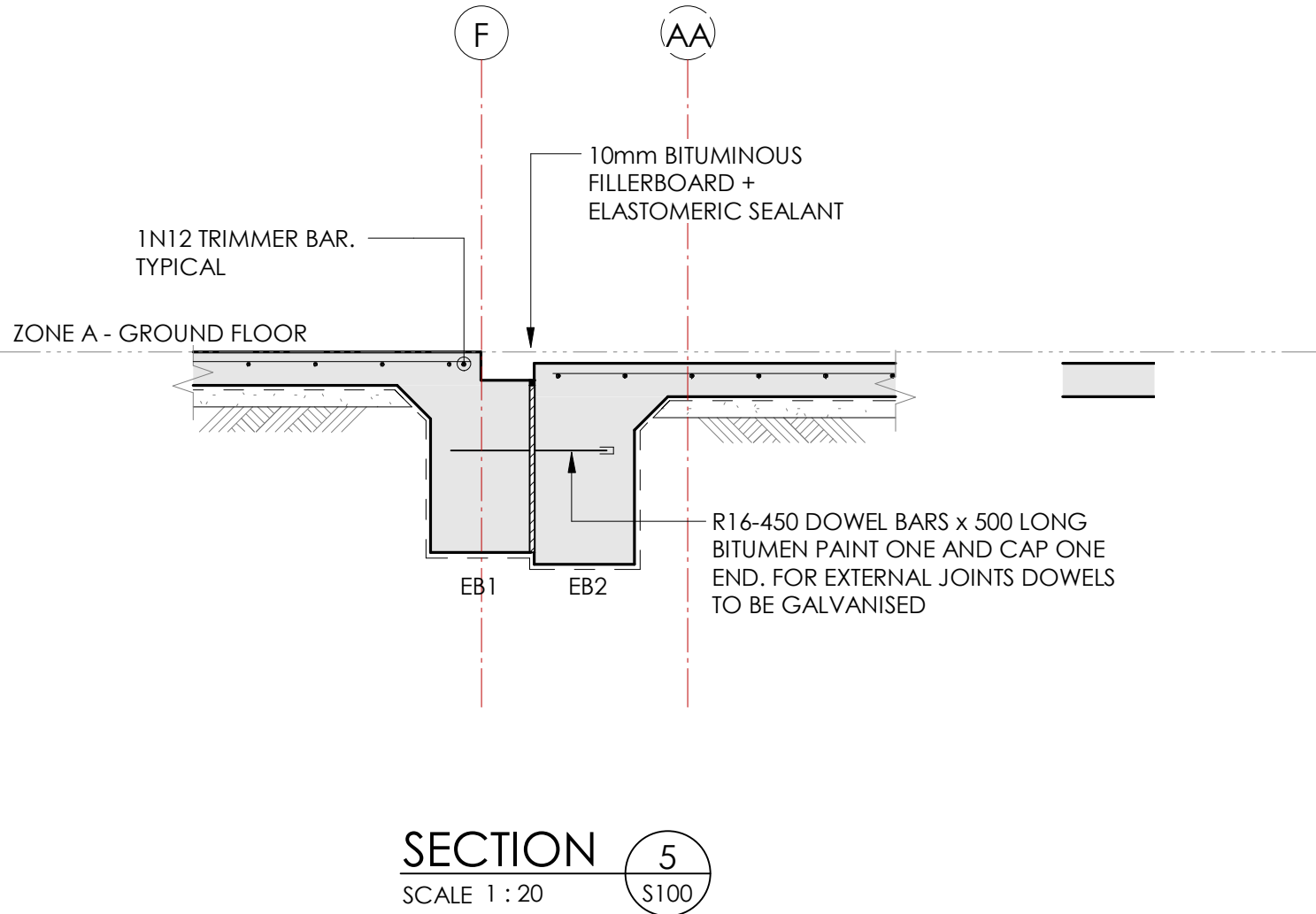
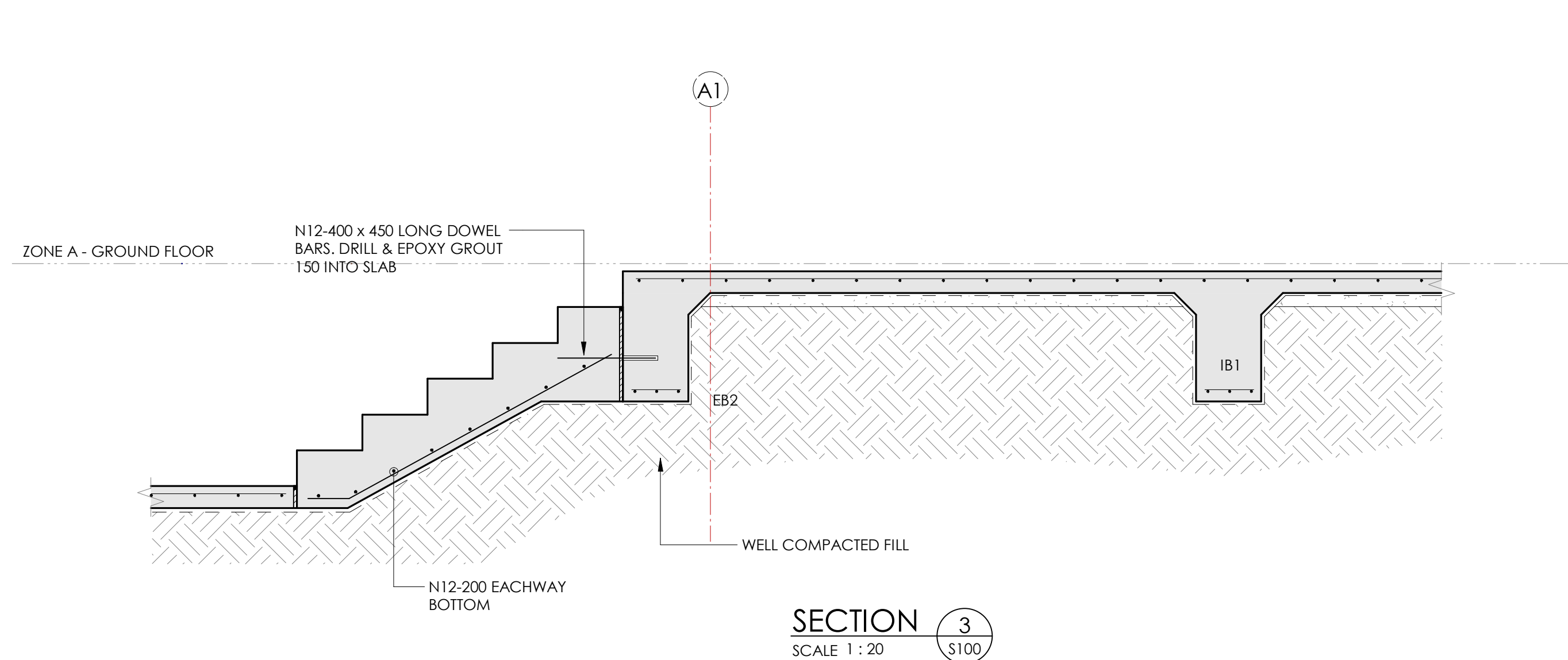
CLIENT
ICON CO
STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THE DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THE DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
GROUND FLOOR DETAILS - ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE As indicated
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S105 A



F	09.12.20	LAP	REVISED CONSTRUCTION ISSUE
E	08.12.20	LAP	REVISED CONSTRUCTION ISSUE
D	13.10.20	LAP	REVISED AS CLOUDED
C	13.10.20	LAP	REVISED AS CLOUDED
B	25.09.20	LAP	REVISED AS CLOUDED TO SUIT CONDITIONS
A	15.04.20	RL	ISSUED FOR CONSTRUCTION
No	DATE	BY	DESCRIPTION



2020



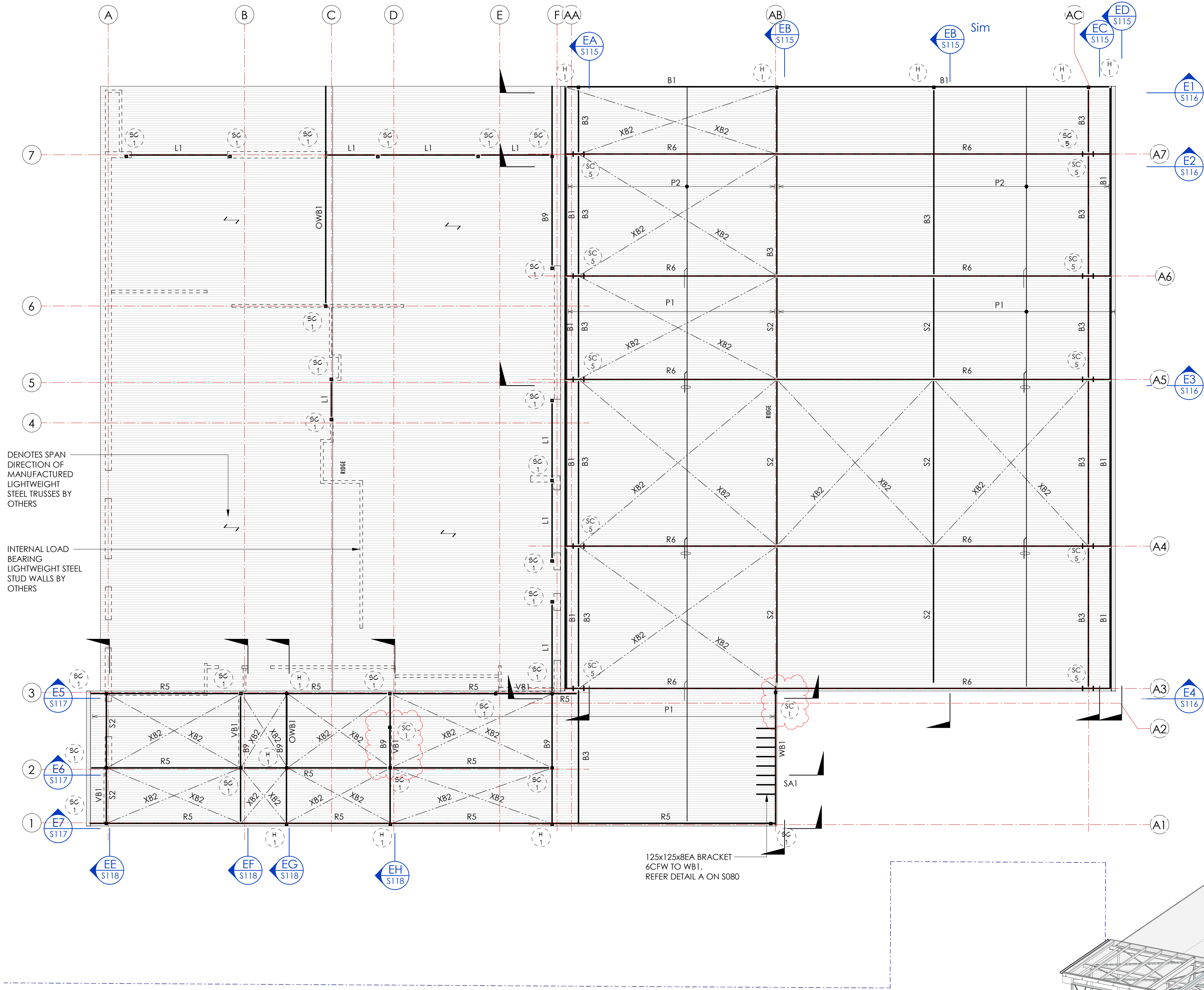
CLIENT
ICON CO
STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty Ltd (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty Ltd AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty Ltd CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
GROUND FLOOR DETAILS - ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 20
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S106
F



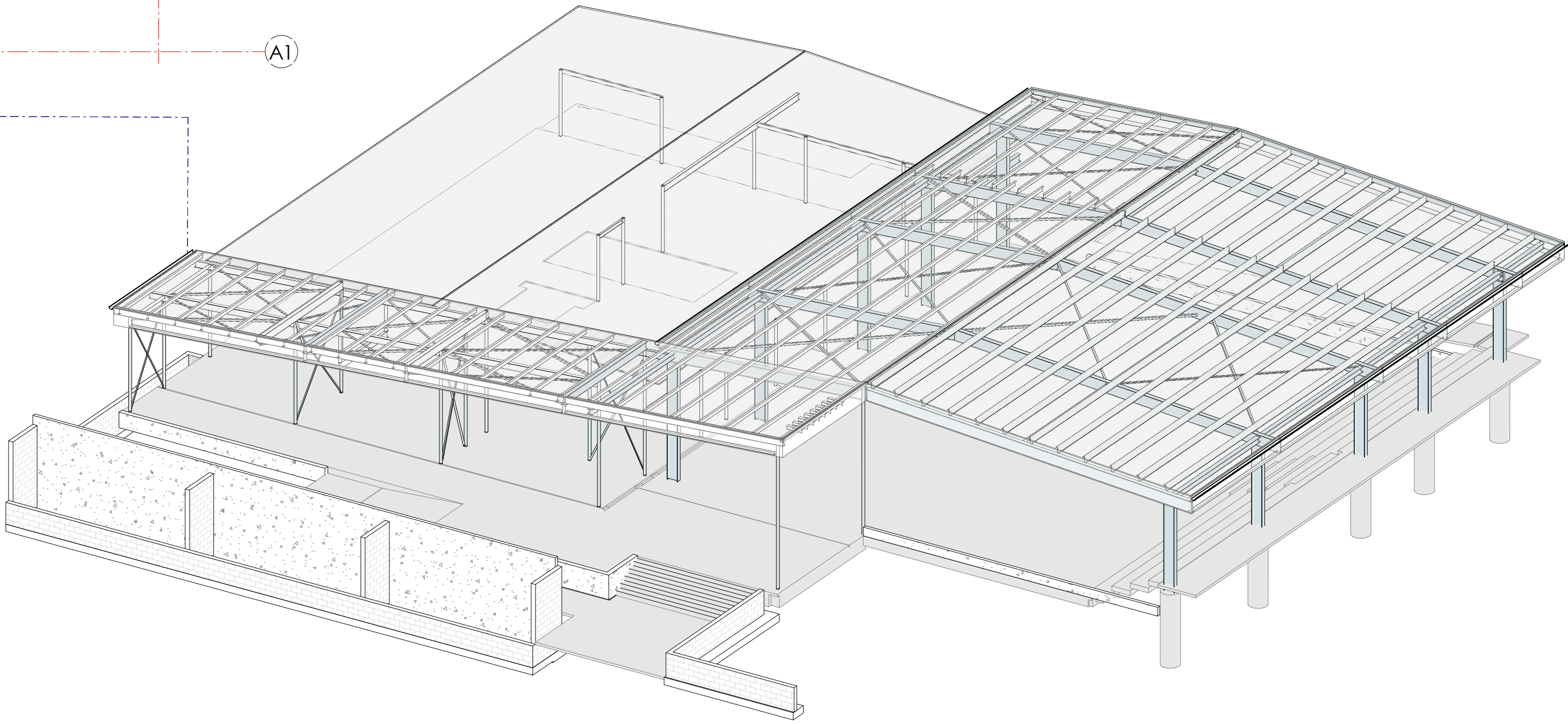
STRUCTURAL FRAMING SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
B1	BEAM	200 PFC	
B2	BEAM	360 UB 57	
B3	BEAM	200 UC 46	
B6	BEAM	200 x 100 x 9.0 RHS	
B7	BEAM	200 UB 30	
B8	BEAM	360 UB 45	
B9	BEAM	310 UB 46	
B10	BEAM	250 UB 31	
G1	GIRT	C 150 15	BRIDGING AT 1200 MAX VERT. CTS
G2	GIRT	C 150 19	BRIDGING AT 1200 MAX VERT. CTS
L1	LINTEL	150 PFC	
OR1	RAFTER	250 UB 31	
OWB1	BEAM	250 UB 26	
P1	PURLIN	Z 200 15	@ 1200 MAX CTS 1 ROW OF BRIDGING
P2	PURLIN	Z 200 24	@ 1200 MAX CTS 1 ROW OF BRIDGING
P3	PURLIN	125 x 75 x 4.0 RHS	
R1	RAFTER	310 UB 46	
R2	BEAM	360 UB 45	FLY BRACE EVERY 2ND PURLIN
R5	RAFTER	250 UB 31	
R6	RAFTER	460 UB 82	PRECAMBER 25mm
RB1	RIDGE BEAM	410 UB 54	
RB3	RIDGE BEAM	310 UB 46	
S1	STRUT	150 x 50 x 5.0 RHS	
S2	STRUT	89 x 89 x 5.0 SHS	
SA1	ANGLE	125 x 125 x 8 EA	
VB1	BRACING	50 x 50 x 5 EA	
WB1	BEAM	125 x 75 x 5.0 RHS	
WB2	BEAM	150 x 150 x 6.0 SHS	
XB1	BRACING	50 x 50 x 5 EA	
XB2	BRACING	75 x 75 x 5 EA	

STRUCTURAL COLUMN SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

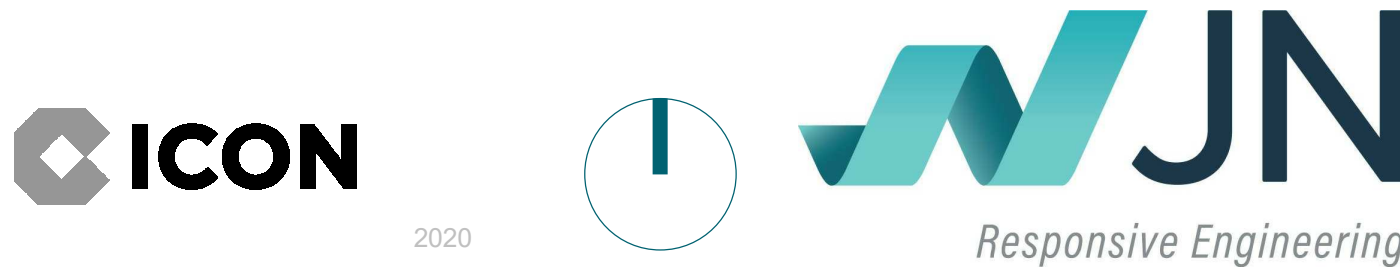
ZONE A - ROOF PLAN

SCALE 1 : 100

1. REFER TO ARCHITECTS DRAWINGS FOR ALL LEVELS, STEPS, FALLS ETC.
2. ALL FASCIAS, FLASHINGS, SARKINGS & LININGS ETC TO ARCHITECTS DETAILS.
3. # DENOTES MEMBERS TO BE OFFSET TO ARCH DIMENSIONS TO ALLOW FOR CLADDING
4. ALL XB1 BRACING TO HAVE SAG ROD INSTALLED AT MIDSPAN TO REDUCE BRACING DEFLECTIONS.



No	DATE	BY	DESCRIPTION
B	15.04.20	RL	ISSUED FOR CONSTRUCTION
I	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION

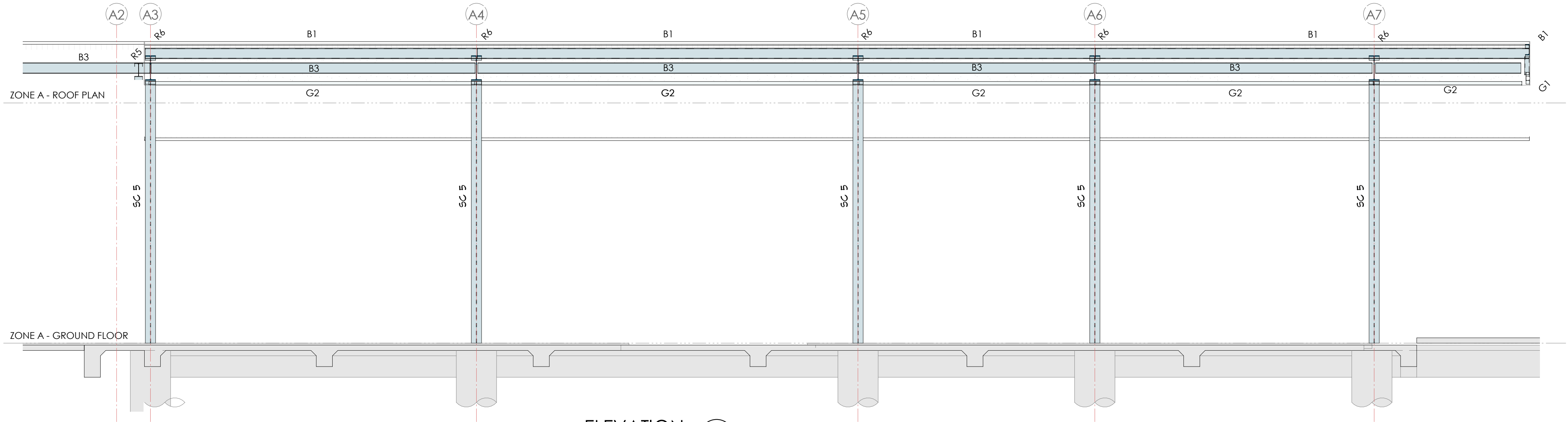


CLIENT
ICON CO
STATUS
CONSTRUCTION
THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT

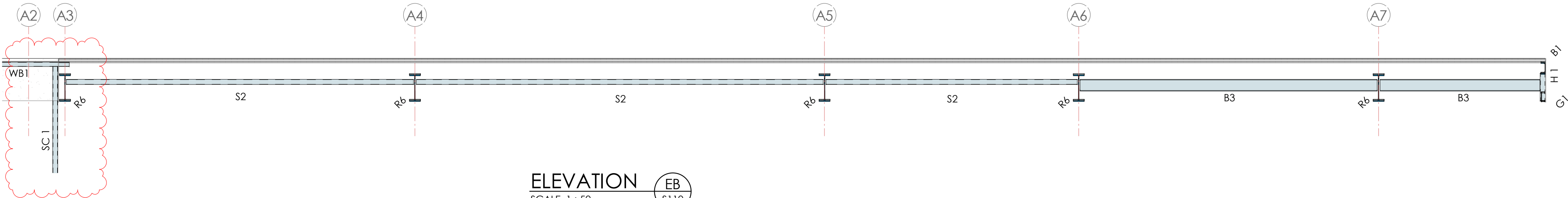
DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
ROOF PLAN - ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

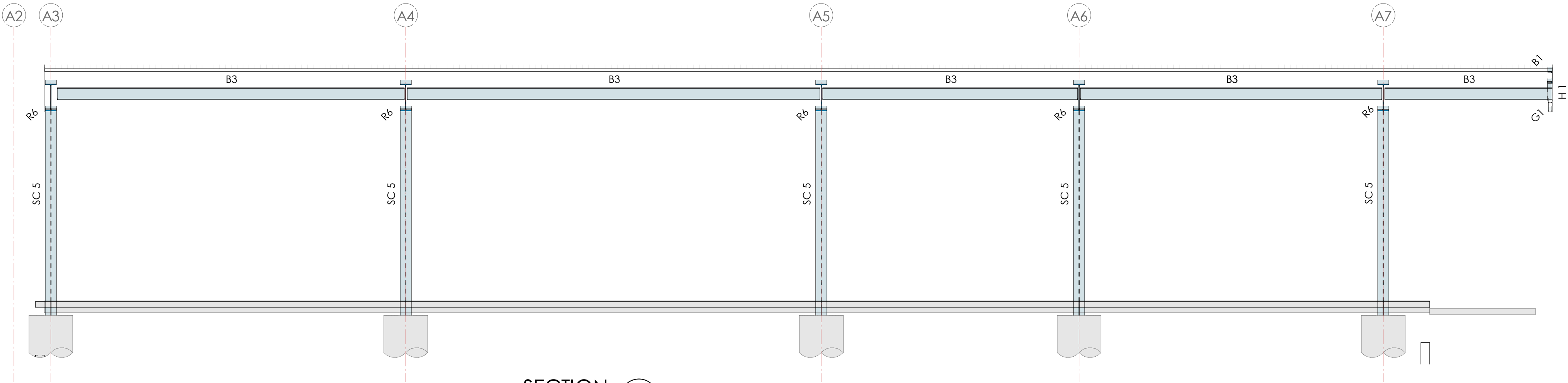
PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE As indicated
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S110 B



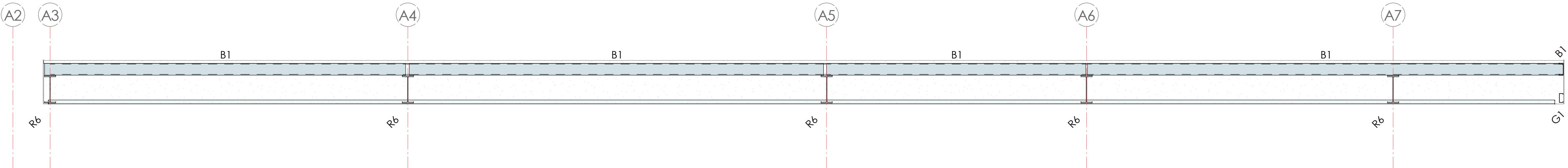
ELEVATION EA
SCALE 1 : 50
S110



ELEVATION EB
SCALE 1 : 50
S110



SECTION EC
SCALE 1 : 50
S110



ELEVATION ED
SCALE 1 : 50
S110

STRUCTURAL FRAMING SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
B1	BEAM	200 PFC	
B2	BEAM	360 UB 57	
B3	BEAM	200 UC 46	
B6	BEAM	200 x 100 x 9.0 RHS	
B7	BEAM	200 UB 30	
B8	BEAM	360 UB 45	
B9	BEAM	310 UB 46	
B10	BEAM	250 UB 31	
G1	GIRT	C 150 15	BRIDGING AT 1200 MAX VERT. CTS
G2	GIRT	C 150 19	BRIDGING AT 1200 MAX VERT. CTS
L1	LINTEL	150 PFC	
OR1	RAFTER	250 UB 31	
OWB1	BEAM	250 UB 26	
P1	PURLIN	Z 200 15	@ 1200 MAX CTS 1 ROW OF BRIDGING
P2	PURLIN	Z 200 24	@ 1200 MAX CTS 1 ROW OF BRIDGING
P3	PURLIN	125 x 75 x 4.0 RHS	
R1	RAFTER	310 UB 46	
R2	BEAM	360 UB 45	FLY BRACE EVERY 2ND PURLIN
R5	RAFTER	250 UB 31	
R6	RAFTER	460 UB 82	PRECAMBER 25mm
RB1	RIDGE BEAM	410 UB 54	
RB3	RIDGE BEAM	310 UB 46	
S1	STRUT	150 x 50 x 5.0 RHS	
S2	STRUT	89 x 89 x 5.0 SHS	
SA1	ANGLE	125 x 125 x 8 EA	
VB1	BRACING	50 x 50 x 5 EA	
WB1	BEAM	125 x 75 x 5.0 RHS	
WB2	BEAM	150 x 150 x 6.0 SHS	
XB1	BRACING	50 x 50 x 5 EA	
XB2	BRACING	75 x 75 x 5 EA	

STRUCTURAL COLUMN SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

B	15.04.20	RL	ISSUED FOR CONSTRUCTION
I	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION
No	DATE	BY	DESCRIPTION



2020



Responsive Engineering

CLIENT
ICON CO

STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. UNLESS OTHERWISE STATED. WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN

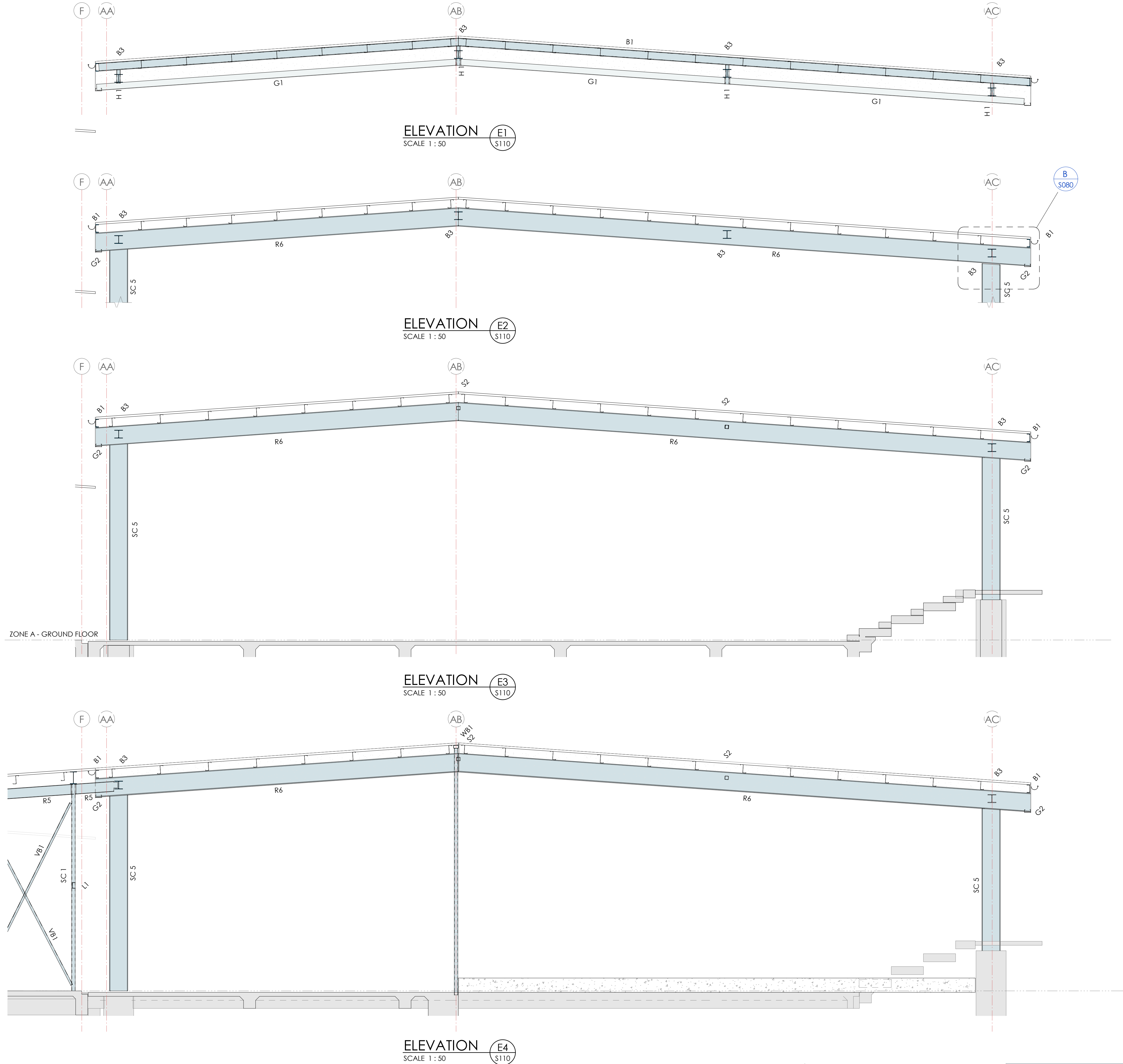
DRAWING TITLE
ROOF FRAMING ELEVATIONS -
ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL

ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 50
PROJECT AD
MGR
WWW.JN.COM.AU

N0200031
S115
B



STRUCTURAL FRAMING SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
B1	BEAM	200 PFC	
B2	BEAM	360 UB 57	
B3	BEAM	200 UC 46	
B6	BEAM	200 x 100 x 9.0 RHS	
B7	BEAM	200 UB 30	
B8	BEAM	360 UB 45	
B9	BEAM	310 UB 46	
B10	BEAM	250 UB 31	
G1	GIRT	C 150 15	BRIDGING AT 1200 MAX VERT. CTS
G2	GIRT	C 150 19	BRIDGING AT 1200 MAX VERT. CTS
L1	LINTEL	150 PFC	
OR1	RAFTER	250 UB 31	
OWB1	BEAM	250 UB 26	
P1	PURLIN	Z 200 15	@ 1200 MAX CTS 1 ROW OF BRIDGING
P2	PURLIN	Z 200 24	@ 1200 MAX CTS 1 ROW OF BRIDGING
P3	PURLIN	125 x 75 x 4.0 RHS	
R1	RAFTER	310 UB 46	
R2	BEAM	360 UB 45	FLY BRACE EVERY 2ND PURLIN
R5	RAFTER	250 UB 31	
R6	RAFTER	460 UB 82	PRECAMBER 25mm
RB1	RIDGE BEAM	410 UB 54	
RB3	RIDGE BEAM	310 UB 46	
S1	STRUT	150 x 50 x 5.0 RHS	
S2	STRUT	89 x 89 x 5.0 SHS	
SA1	ANGLE	125 x 125 x 8 EA	
VB1	BRACING	50 x 50 x 5 EA	
WB1	BEAM	125 x 75 x 5.0 RHS	
WB2	BEAM	150 x 150 x 6.0 SHS	
XB1	BRACING	50 x 50 x 5 EA	
XB2	BRACING	75 x 75 x 5 EA	

STRUCTURAL COLUMN SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

B	15.04.20	RL	ISSUED FOR CONSTRUCTION
I	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION
No	DATE	BY	DESCRIPTION



2020



CLIENT
ICON CO

STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN

DRAWING TITLE
ROOF FRAMING ELEVATIONS -
ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL

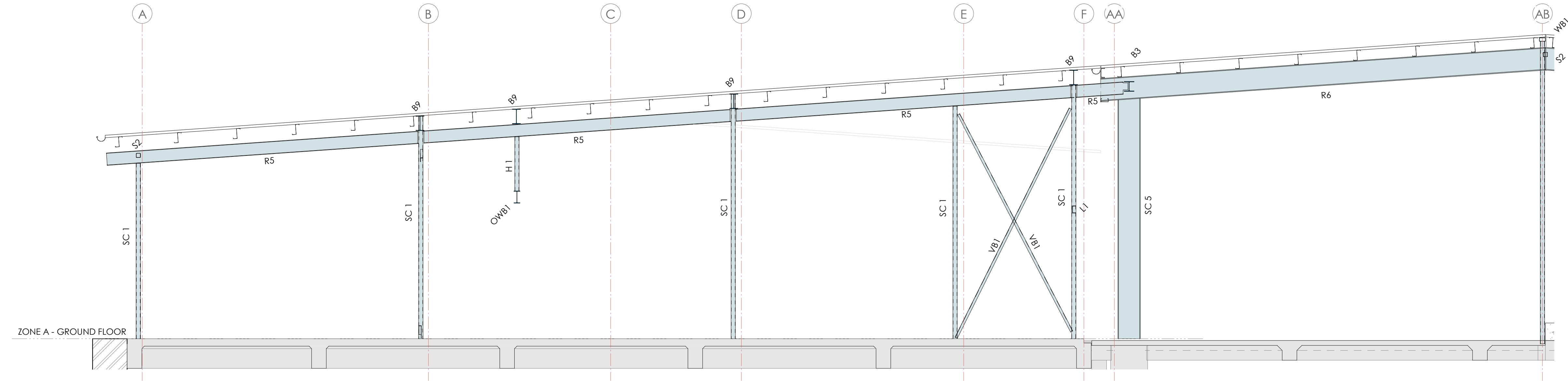
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 50
PROJECT AD
MGR
WWW.JN.COM.AU

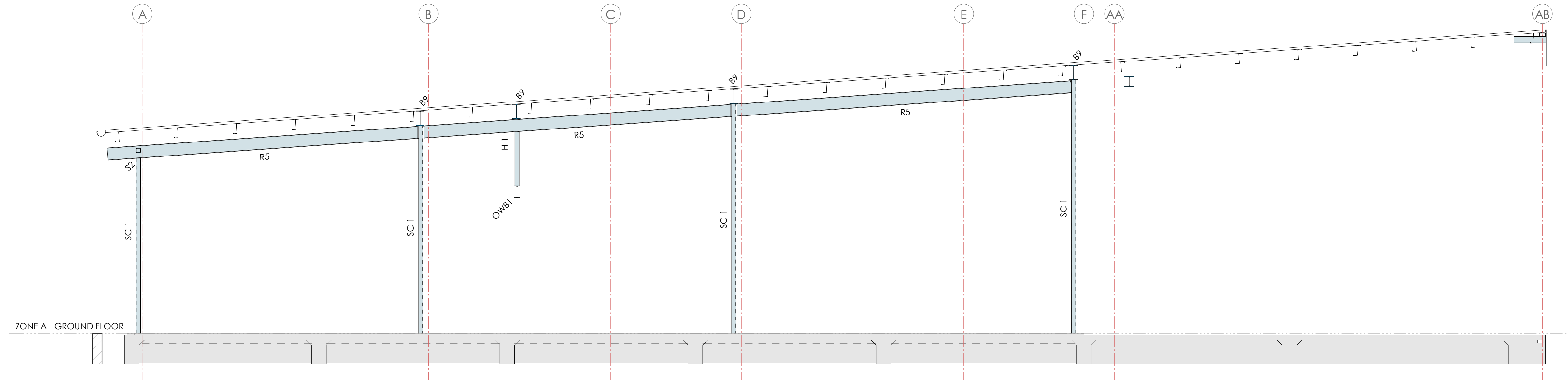
N0200031

S116

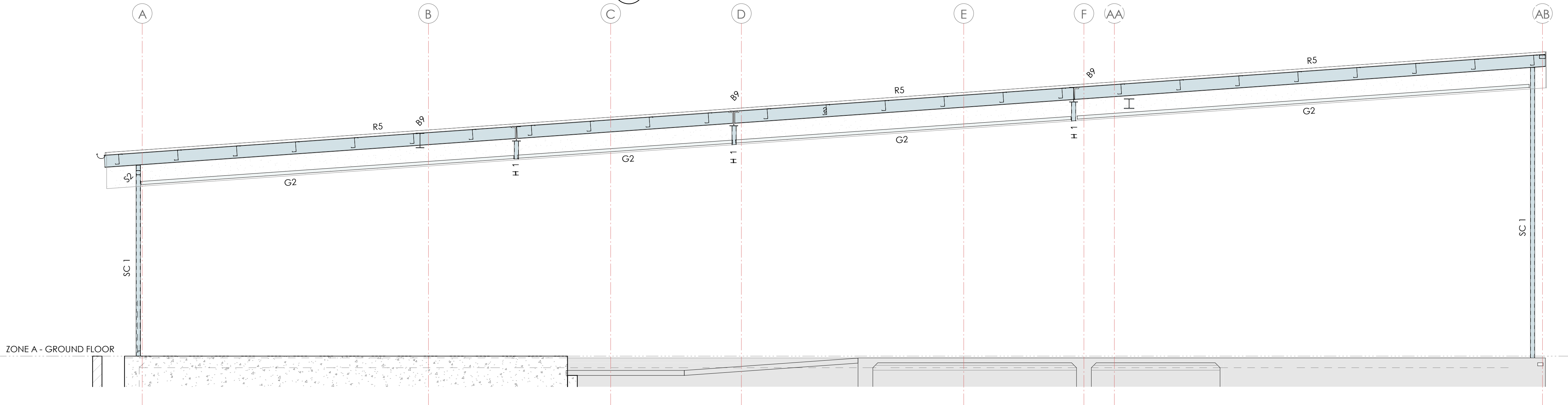
B



ELEVATION E5
SCALE 1 : 50



ELEVATION E6
SCALE 1 : 50



ELEVATION E7
SCALE 1 : 50

STRUCTURAL FRAMING SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
B1	BEAM	200 PFC	
B2	BEAM	360 UB 57	
B3	BEAM	200 UC 46	
B6	BEAM	200 x 100 x 9.0 RHS	
B7	BEAM	200 UB 30	
B8	BEAM	360 UB 45	
B9	BEAM	310 UB 46	
B10	BEAM	250 UB 31	
G1	GIRT	C 150 15	BRIDGING AT 1200 MAX VERT. CTS
G2	GIRT	C 150 19	BRIDGING AT 1200 MAX VERT. CTS
L1	LINTEL	150 PFC	
OR1	RAFTER	250 UB 31	
OWB1	BEAM	250 UB 26	
P1	PURLIN	Z 200 15	@ 1200 MAX CTS 1 ROW OF BRIDGING
P2	PURLIN	Z 200 24	@ 1200 MAX CTS 1 ROW OF BRIDGING
P3	PURLIN	125 x 75 x 4.0 RHS	
R1	RAFTER	310 UB 46	
R2	BEAM	360 UB 45	FLY BRACE EVERY 2ND PURLIN
R5	RAFTER	250 UB 31	
R6	RAFTER	460 UB 82	PRECAMBER 25mm
RB1	RIDGE BEAM	410 UB 54	
RB3	RIDGE BEAM	310 UB 46	
S1	STRUT	150 x 50 x 5.0 RHS	
S2	STRUT	89 x 89 x 5.0 SHS	
SA1	ANGLE	125 x 125 x 8 EA	
VB1	BRACING	50 x 50 x 5 EA	
WB1	BEAM	125 x 75 x 5.0 RHS	
WB2	BEAM	150 x 150 x 6.0 SHS	
XB1	BRACING	50 x 50 x 5 EA	
XB2	BRACING	75 x 75 x 5 EA	

STRUCTURAL COLUMN SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

No	DATE	BY	DESCRIPTION
B	15.04.20	RL	ISSUED FOR CONSTRUCTION
I	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION



2020

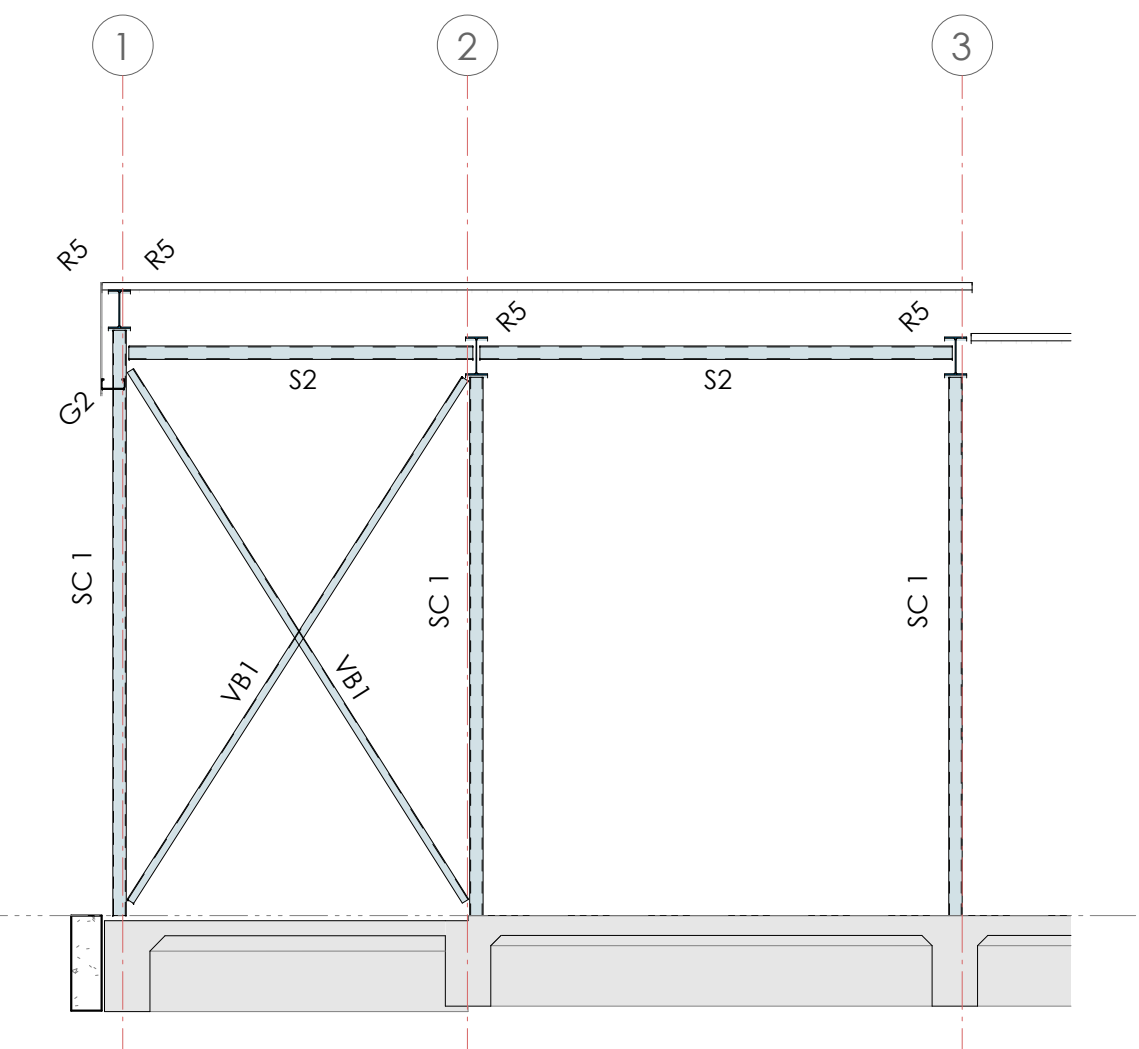


CLIENT
ICON CO
STATUS
CONSTRUCTION
THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THE DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THE DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

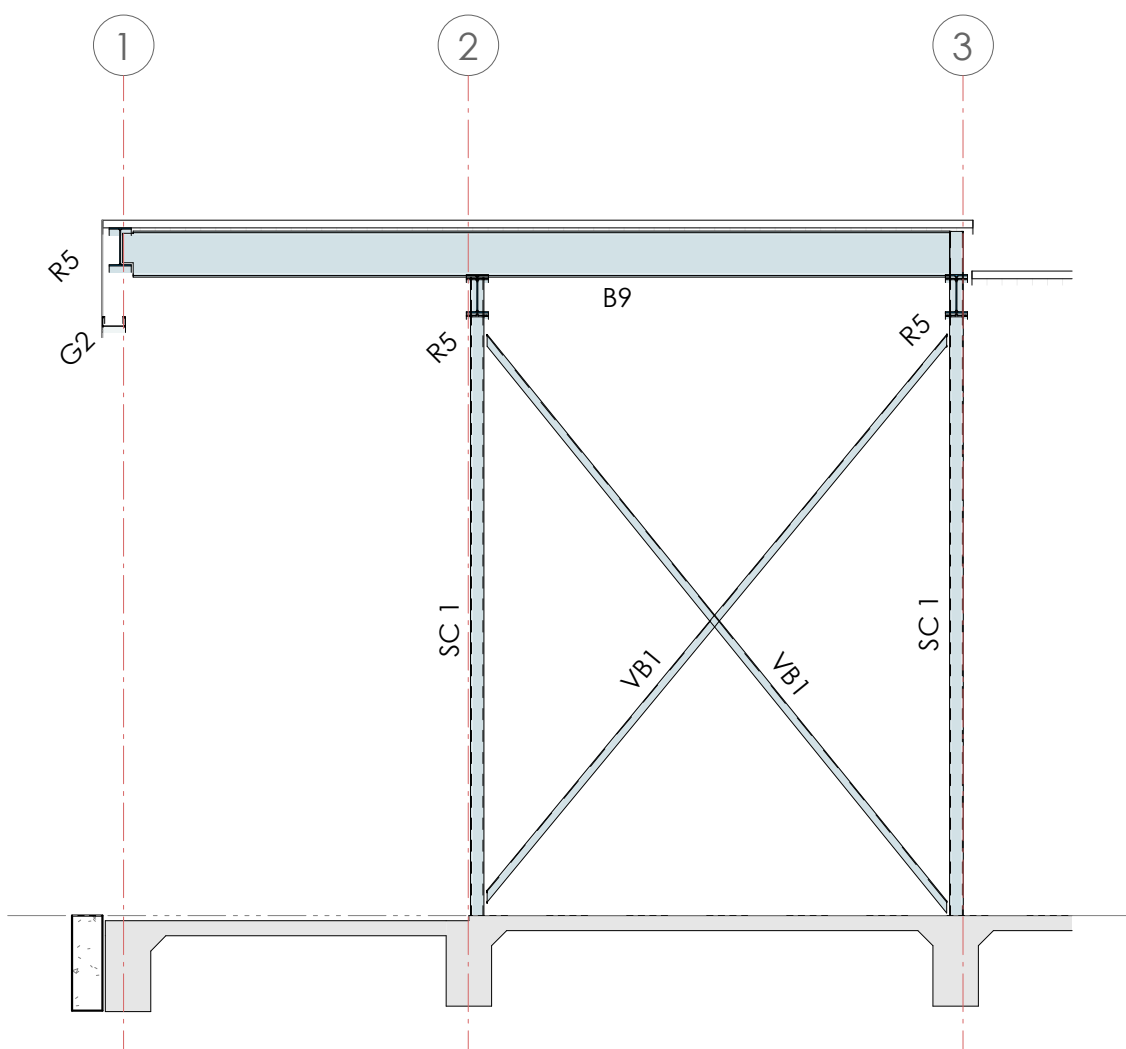
DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
ROOF FRAMING ELEVATIONS -
ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

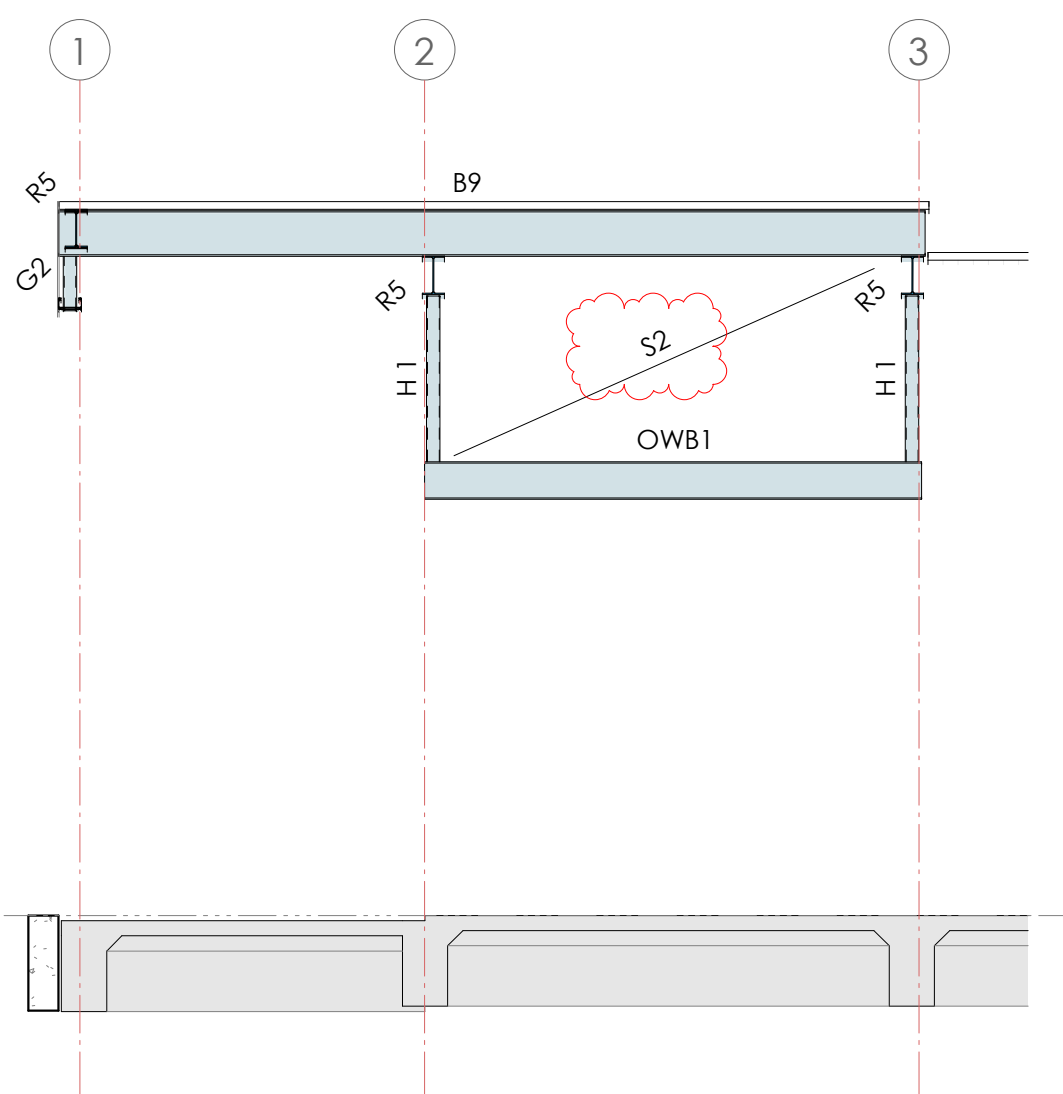
PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 50
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S117 B



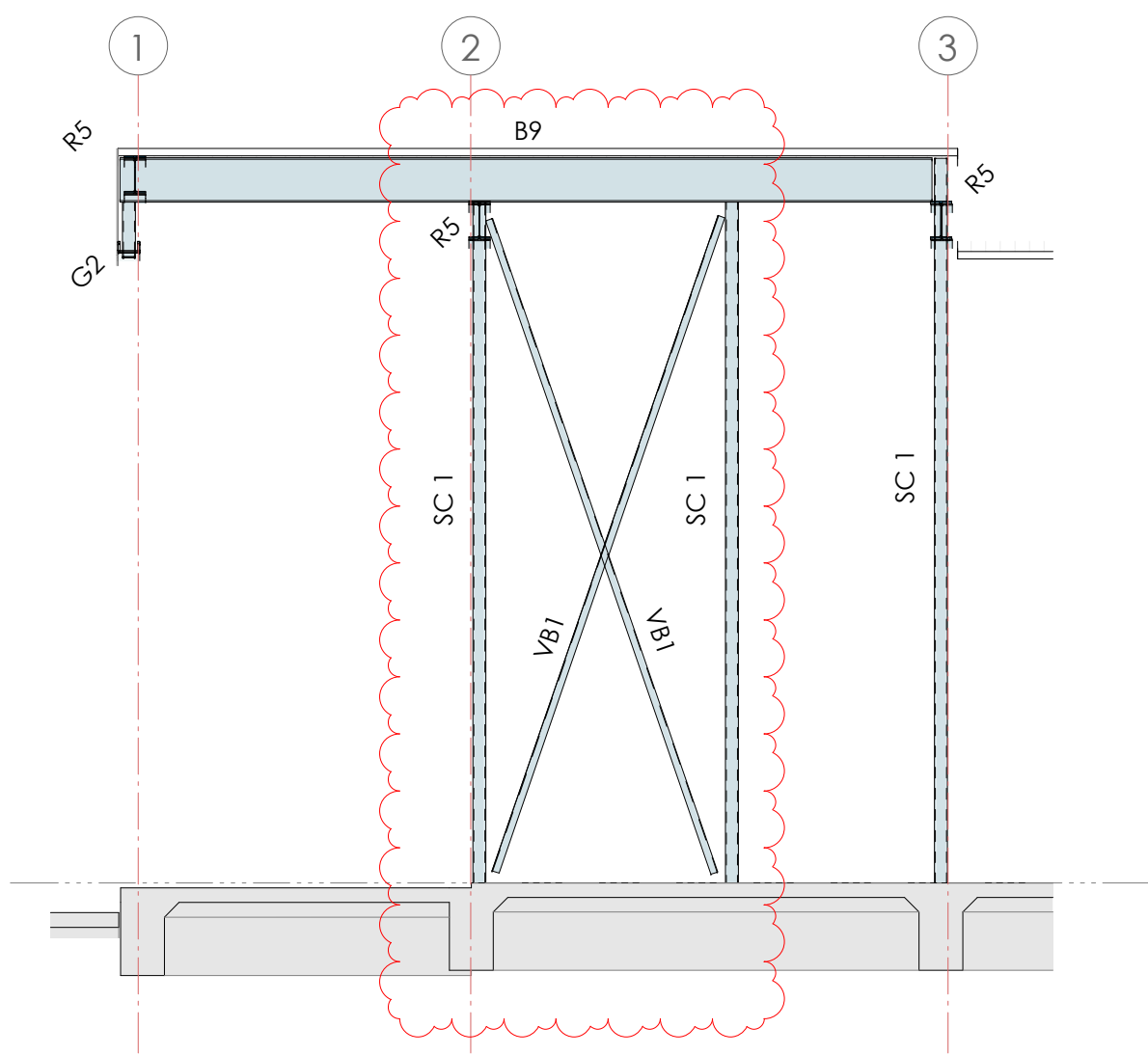
ELEVATION EE
SCALE 1 : 50 S110



ELEVATION EF
SCALE 1 : 50 S110



ELEVATION EG
SCALE 1 : 50 S110



ELEVATION EH
SCALE 1 : 50 S110

STRUCTURAL FRAMING SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
B1	BEAM	200 PFC	
B2	BEAM	360 UB 57	
B3	BEAM	200 UC 46	
B6	BEAM	200 x 100 x 9.0 RHS	
B7	BEAM	200 UB 30	
B8	BEAM	360 UB 45	
B9	BEAM	310 UB 46	
B10	BEAM	250 UB 31	
G1	GIRT	C 150 15	BRIDGING AT 1200 MAX VERT. CTS
G2	GIRT	C 150 19	BRIDGING AT 1200 MAX VERT. CTS
L1	LINTEL	150 PFC	
OR1	RAFTER	250 UB 31	
OWB1	BEAM	250 UB 26	
P1	PURLIN	Z 200 15	@ 1200 MAX CTS 1 ROW OF BRIDGING
P2	PURLIN	Z 200 24	@ 1200 MAX CTS 1 ROW OF BRIDGING
P3	PURLIN	125 x 75 x 4.0 RHS	
R1	RAFTER	310 UB 46	
R2	BEAM	360 UB 45	FLY BRACE EVERY 2ND PURLIN
R5	RAFTER	250 UB 31	
R6	RAFTER	460 UB 82	PRECAMBER 25mm
RB1	RIDGE BEAM	410 UB 54	
RB3	RIDGE BEAM	310 UB 46	
S1	STRUT	150 x 50 x 5.0 RHS	
S2	STRUT	89 x 89 x 5.0 SHS	
SA1	ANGLE	125 x 125 x 8 EA	
VB1	BRACING	50 x 50 x 5 EA	
WB1	BEAM	125 x 75 x 5.0 RHS	
WB2	BEAM	150 x 150 x 6.0 SHS	
XB1	BRACING	50 x 50 x 5 EA	
XB2	BRACING	75 x 75 x 5 EA	

STRUCTURAL COLUMN SCHEDULE			
TAG	MEMBER	MEMBER SIZE	COMMENTS
H 1	COLUMN	89 x 89 x 6.0 SHS	
SB 1	STUB COLUMN	89 x 89 x 5.0 SHS	
SC 1	COLUMN	89 x 89 x 6.0 SHS	
SC 3	COLUMN	200 x 100 x 9.0 RHS	
SC 4	COLUMN	125 x 125 x 5.0 SHS	
SC 5	COLUMN	460 UB 74	

B	15.04.20	RL	ISSUED FOR CONSTRUCTION
I	26.03.20	RL	ISSUED FOR 100% DETAILED DESIGN
A	18.03.20	DWS	ISSUED FOR CONSTRUCTION
No	DATE	BY	DESCRIPTION



2020



CLIENT
ICON CO
STATUS
CONSTRUCTION

THIS DOCUMENT IS ISSUED BY JONES NICHOLSON Pty. Ltd. (ABN 51 003 316 032) AND IS SUBJECT TO THE RELEVANT CONTRACT BETWEEN JONES NICHOLSON Pty. Ltd. AND ITS CLIENT. THE CONCEPTS AND INFORMATION CONTAINED IN THIS DOCUMENT ARE THE COPYRIGHT OF JONES NICHOLSON Pty. Ltd. USE OR COPYING OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF JONES NICHOLSON Pty. Ltd. CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

DISCIPLINE
STRUCTURAL DESIGN
DRAWING TITLE
ROOF FRAMING ELEVATIONS -
ZONE A

PROJECT
GREYSTANES PUBLIC SCHOOL
ADDRESS
MERRYLANDS ROAD GREYSTANES NSW 2145

PROJECT DETAILS
DESIGN CG
DRAWN MA
DATE JULY 2017
DRG SIZE A1
SCALE 1 : 50
PROJECT AD
MGR
WWW.JN.COM.AU
N0200031
S118 B