



Our Reference: BR200435_STR Certificate_Building H_rev01
Your Reference:

Level 7
104 Melbourne St
South Brisbane QLD 4101

30/01/2024

T 07 3844 5900

www.acor.com.au

Richard Crookes Construction P/L
Level 3, 4 Broadcast Way
Artarmon, NSW 2064

ENGINEERS
MANAGERS
INFRASTRUCTURE
PLANNERS
DEVELOPMENT
CONSULTANTS

Attention: Mr Nick Parker

Dear Nick,

**Re: Kingscliff Public School, Kingscliff NSW
OC Structural Certification – Building C Crowd Balustrade**

STRUCTURAL

Site Details:

Project Name:	Kingscliff Public School		
Street no. / Street name:	33 Oxford Street		
Suburb:	Kingscliff	State:	NSW
		Postcode:	2487

Description of Work: Alterations and Additions to the Existing Building C West (Lift Balustrade)

Consent:

SSD No.	SSD-8744305	Consent authority:	N/A
		Dated:	30 January 2024

Pursuant to the provisions of the Environment Planning and Assessment (Development Certification and Fire Safety) Regulation 2021 and Clause A5.2 of the Building Code of Australia 2019:

I, Jarrod Novosel of ACOR CONSULTANTS
(name) (company)

hereby certify that the structural works have been installed / implemented / constructed in the above building/development and they have been inspected, assessed, and tested (where appropriate) in accordance with:

The following conditions of Development Consent:
a) SSD-D11

b) The relevant clauses of the Building Code of Australia, as follows:

c) The following Australian Standards: AS 1170.0:2002, AS1170.1-2002, AS1720.1:2010 & AS4100:1998, AS 1720.1

This is to certify that structural inspections were carried out during construction of this project by a practising Structural Engineer in accordance with the following schedule and accepted engineering practice and principles.

List of inspections undertaken during construction by a suitably qualified structural engineer:

Inspection No.	Date of Inspection	Item/s Inspected	Relevant Drawings (beginning with KHS-S-H-*)	Approved/ Rejected
049	17.01.2024	Building C Additional Balustrade	SK - Kingscliff HS remedial details 230523	Approved

At the time of inspection, the work inspected generally conformed, in our opinion with the structural engineering drawings. Where minor corrections were required, instructions were issued to the Builder for their correction.

This certificate does not relieve the Builder or any other party of their responsibilities for the project. This certificate is based upon the discrete number of inspections conducted and relies on the Builder to rectify the items noted on the inspection report.

The plans that the inspections were inspected off were the 'For Construction' set of drawings which will be rebadged and reissued at the end of the project as 'As-Built'.


Exclusions: Yes

Details of any exclusions: Other balustrade areas of Building C West, this certificate relates only to that immediately around the lift opening as highlighted in the documentation and highlighted in the blue box in Figure 1.



Figure 1 - Balustrade Extents

I also certify that I am an appropriately qualified and competent person practicing in the relevant area of work. I have recognised relevant experience in the area of work being certified. I / my employer hold/s appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

Name:	Jarrod Novose!	Licence No.:	RPEQ 8193 NER
Company Name:	ACOR CONSULTANTS	ABN No:	40079306246
Company Address:	Level 7, 104 Melbourne St, South Brisbane QLD 4101	Tel:	07 3844 5900
Signature:		Position Title:	Structural Team Leader

		<i>Date:</i>	30/01/2024
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CONSULTANTS

ACOR Consultants (Qld) Pty Ltd
ABN 18 126 011 087
BRISBANE OFFICE
Level 4, 43 Peel Street
South Brisbane QLD 4101
Telephone: T +61 7 3844 5900
www.acor.com.au

SITE INSPECTION REPORT

Project: Kingscliff High School		Contractor: RCC	
Date of Inspection: 17-01-24		Start Time: 1:30 pm	
Inspection by: Richard Smith		Finish Time: 2:00 pm	
ACOR Project No: BR210028		Weather: —	
Inspection Report No: KHS-o 49	No. Pages: 2	Site Manager Name:	
Works Inspected: STEELWORK - Building 0, 9, C,			
Drawing Reference:			

Engineered (engaged by ACOR Consultants) were invited to site to undertake an inspection to examine and check for congruence with the latest issued For Construction documentation and any issued site advices. Please refer to the accompanying Comment Plan for the scope of the areas inspected. The works were found to be generally in accordance with the structural documentation, with the exception of the following outstanding items and comments:

EXTENT REFER SITE PLAN MARK-UP

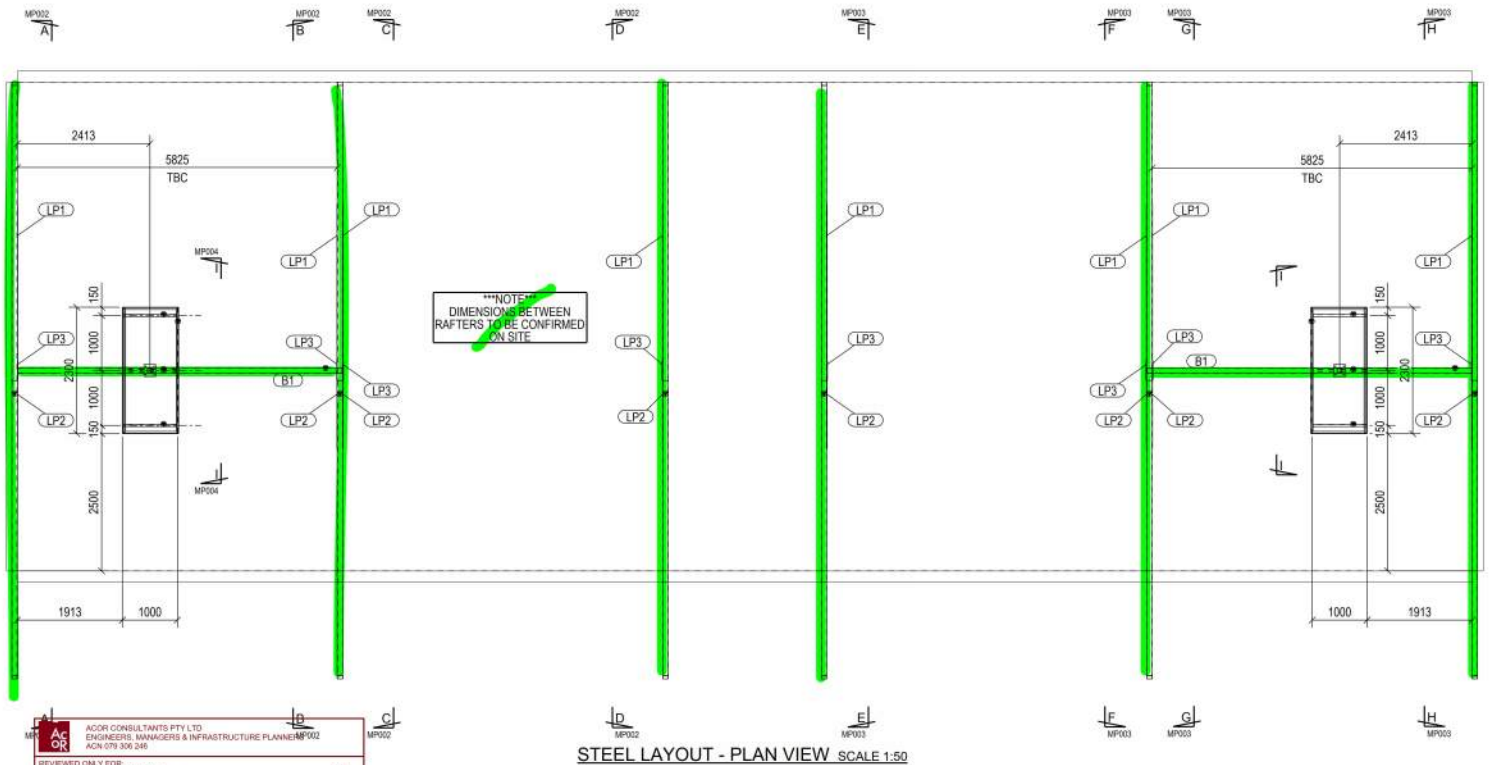
1.
2. Building 0 -
3. - CANTILEVERED OUT RIGGERS SEEM TO HAVE
4. 2 OVERSIZED HOLES - VENTS ?
5. SEE PICTURE - ACOR TO ADVISE IF OK.
6. - ALL REMAINING VISABLE STEEL SATISFACTORY
7. - FINISH TENSIONED STRAP BRACE
8.
9. Building 9 - C, ALL SATISFACTORY.
10.
11.

Inspecting Engineer Signature: 

Site Manager Signature:



Site inspection locations



STEEL LAYOUT - PLAN VIEW SCALE 1:50

ACOR
ACOR CONSULTANTS PTY LTD
ENGINEERS, MANAGERS & INFRASTRUCTURE PLANNING
ACN 079 306 246

REVIEWED ONLY FOR INTERFACE WITH OTHER WORK CONFORMITY WITH DESIGN CONCEPT OTHER:

DOCUMENT HAS NOT BEEN REVIEWED FOR DETAILED DESIGN OR DIMENSIONAL CHECK UNLESS EXPRESSLY STATED ABOVE.

DOCUMENT IS:

ACCEPTED

ACCEPTED EXCEPT - AS NOTED ON DOCUMENT

ACCEPTED EXCEPT - AS ATTACHED

NOT ACCEPTED (CORRECT AND RESUBMIT)

ACCEPTANCE OF THIS DOCUMENT IN NO WAY RELIEVES THE CONTRACTOR FROM RESPONSIBILITY FOR DESIGN, DIMENSIONAL ACCURACY, WORKMANSHIP, MATERIAL AND OTHER LIABILITY.

SIGNED: DANIEL MCCARRON DATE: 10/1/2023

NO.	DATE	DESCRIPTION	BY	CHECKED

- GENERAL NOTES**
1. MARK TO STAMP LOCATION INDICATED THIS.
 2. STAMPED END OF MEMBER TO BE CREATED WHERE SHOWN ON PLANS.
 3. COLUMNS HAVE ASSEMBLY MARK STAMPED ON NORTH OR EAST FACING FLANGE REAR FACE OR BENT UP.
 4. FIN PLATES FOR BEAMS WILL BE ON THE NORTH OR EAST SIDE OF BEAMS UNLESS OTHERWISE NOTED.
 5. FIN PLATES FOR SOUTH OR WEST SIDE OF FIN PLATE.
 6. FIN PLATES FOR CHANNELS ARE ON STEEL UNLESS SHOWN OTHERWISE.
 7. PLATE A GIRT BEAMS TO BE INSTALLED AS PER MANUFACTURERS' STAMPED DETAILS AND RECOMMENDATIONS.
 8. BOLTS, NUTS & WASHERS SHALL BE HDG UNLTD.

MEMBER CONNECTING SIDE NOTE

THE FOLLOWING SYMBOLS SUPERSEDES DIRECTION NOTE & IS SHOWN ON PLAN.

THE SYMBOL POINTS TO THE MEMBER FACE WHICH CONNECTS TO THE CLEAR.

EXAMPLE:



FIRST LINE ENGINEERING

1007 BRIDGE RD, BUNDAH QLD 4217
P: 07 550 225 800
E: info@firstlineengineering.com.au
www.firstlineengineering.com.au

ISSUED FOR APPROVAL

PROJECT: RICHARD CROOKES CONSTRUCTIONS
RINGSLEIGH HIGH SCHOOL BUILDING C
23 OF ST. ANN'S CATHEDRAL
STEEL LAYOUT

DATE: 10/1/2023

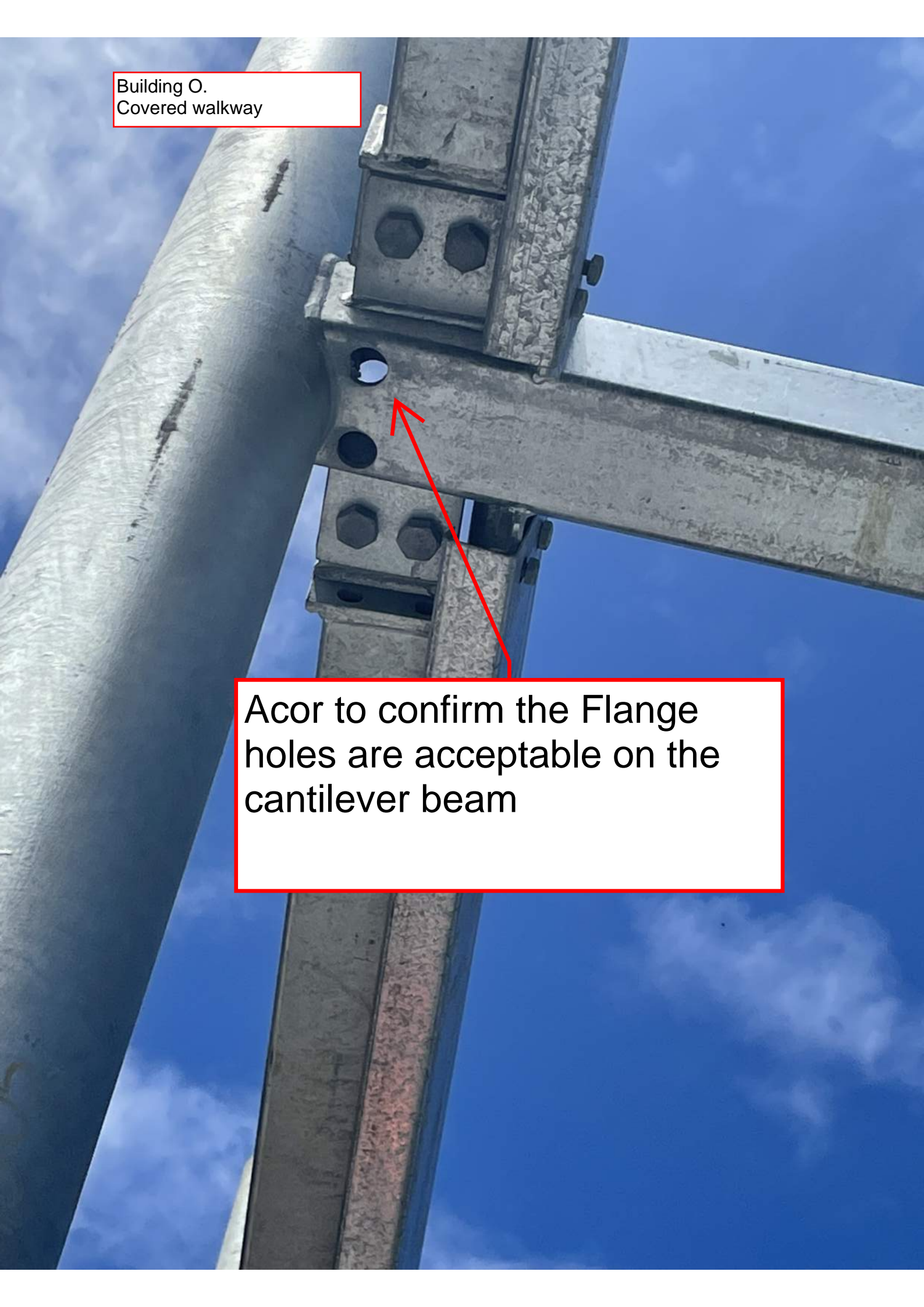
MP001/0

Kitchen steel layout for stiffener plates droppers and transfer beams inspected 17/01/24


Building C.
Additional
balustrade



Building O.
Covered walkway

A close-up photograph of a steel cantilever beam connection. The beam is attached to a vertical column using a flange plate with two hexagonal bolts. A red arrow points to a hole in the flange plate. The background is a clear blue sky with some light clouds.

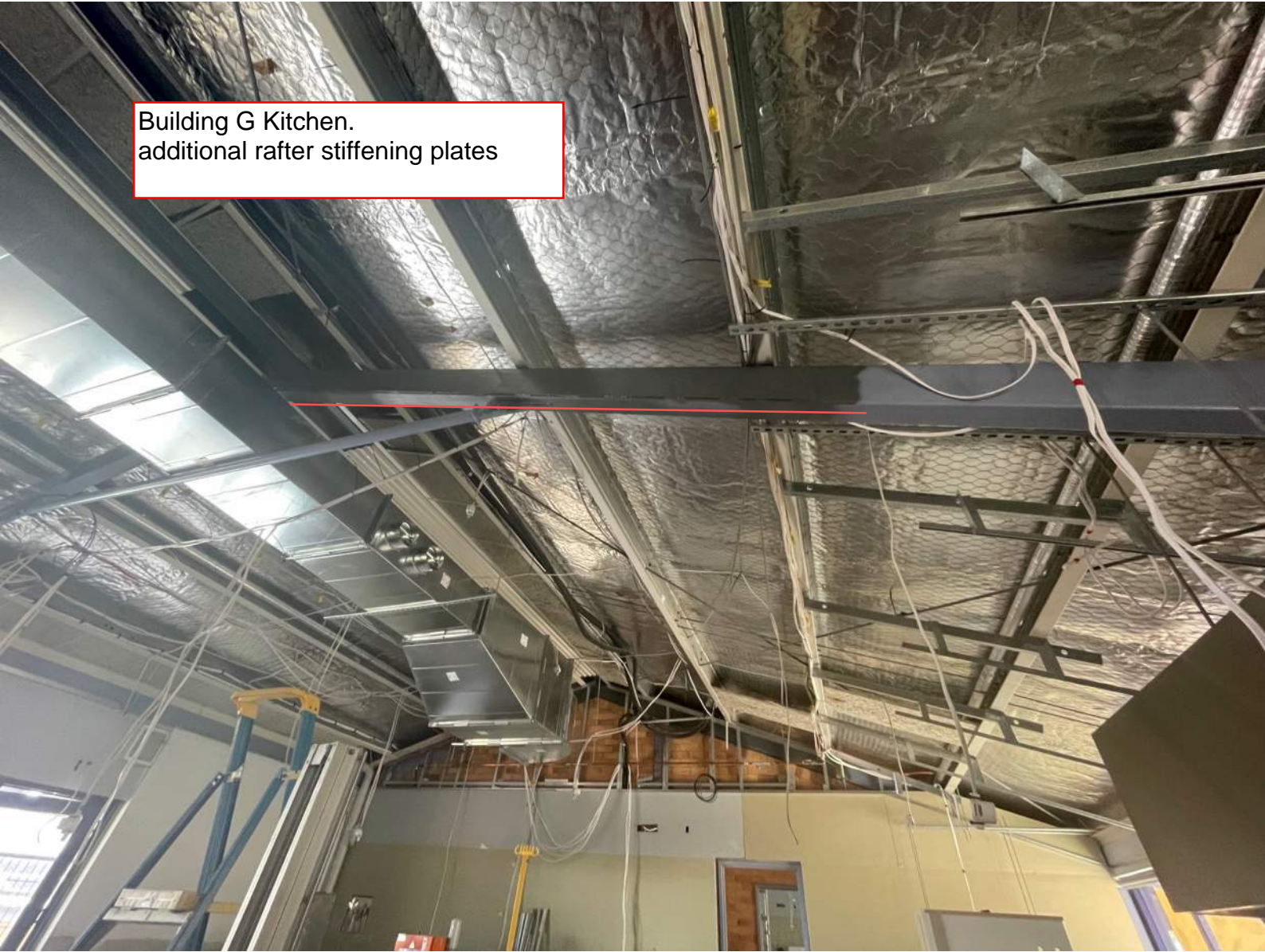
Acor to confirm the Flange holes are acceptable on the cantilever beam



Covered walkway

Acor to confirm the
Flange holes are
acceptable on the

Building G Kitchen.
additional rafter stiffening plates





Dropper and transfer beam

Site weld ext'g SHS column to new steel structure. Provide min 6 CFW to top and 2 x sides.

Provide additional 2 of, 70 x 45 studs as indicated. Fix top and bottom with 40 x 3 mild steel equal angles, min 2 x 12 gauge wood screws per leg. Adopt as typical. Fix existing slats to new studs with min 8 gauge wood screws.



Our Reference: BR210028-SC-BuildingC Middle&West-rev01
Your Reference:

Level 7
22 Cordelia St
South Brisbane QLD 4101

30/01/2024

T 07 3844 5900

www.acor.com.au

Richard Crookes Construction P/L
Level 3, 4 Broadcast Way
Artarmon, NSW 2064

ENGINEERS
MANAGERS
INFRASTRUCTURE
PLANNERS
DEVELOPMENT
CONSULTANTS

Attention: Mr Nick Packer

Dear Nick,

**Re: Kingscliff High School, Kingscliff NSW
OC Structural Certification – Building C Middle (Remaining Works) & Building C West**

STRUCTURAL

Site Details:

Project Name:	Kingscliff High School		
Street no. / Street name:	33 Oxford Street		
Suburb:	Kingscliff	State:	NSW
		Postcode:	2487

Description of Work:

Alterations and Additions to the Existing Building C Middle (Stage 2b) and Building C West (Stage 2c)

Consent:

SSD No.	SSD-8744305	Consent authority:	N/A
		Dated:	03.11.2021

Pursuant to the provisions of the Environment Planning and Assessment (Development Certification and Fire Safety) Regulation 2021 and Clause A5.2 of the Building Code of Australia 2019:

I, Jarrod Novosel of ACOR CONSULTANTS
(name) (company)

hereby certify that the structural works have been installed / implemented / constructed in the above building/development and they have been inspected, assessed, and tested (where appropriate) in accordance with:

- a) The following conditions of Development Consent:
SSD-D11
- b) The relevant clauses of the Building Code of Australia, as follows: BCA clauses B1.2 & B1.4 and

Specification C1.1

- | | |
|--|--|
| c) The following Australian Standards: | AS 1170.0:2002, AS1170.1-2002, AS1170.2-2011, AS1170.4-2007, AS2870:2011, AS3600-2018, AS3700-2011 & AS4100:1998 |
|--|--|
-

This is to certify that structural inspections were carried out during construction of this project by a practising Structural Engineer in accordance with the following schedule and accepted engineering practice and principles.

List of inspections undertaken during construction by a suitably qualified structural engineer:

Inspection No.	Date of Inspection	Item/s Inspected	Relevant Drawings (beginning with KHS-S-C-*)	Approved/ Rejected
048	11/12/2023	Level 1 Steel Beams and Bracing Walls	KHS-S-C-04.00	Approved

At the time of inspection, the work inspected generally conformed, in our opinion with the structural engineering drawings. Where minor corrections were required, instructions were issued to the Builder for their correction. This certificate certifies only the specific steel works for Stage 2b&2c as noted in the report.

This certificate does not relieve the Builder or any other party of their responsibilities for the project. This certificate is based upon the discrete number of inspections conducted and relies on the Builder to rectify any items noted on the inspection report as required.


The plans that the inspections were inspected off were the 'For Construction' set of drawings.

Exclusions: Yes

Details of any exclusions: All light gauge steel members which are not load bearing are excluded from this certificate.

Where there are no exclusions, I certify that this certificate covers all structural steelwork in Building C Middle (remainder of works) and Building C West for the areas inspected as outlined in the above inspection report.

I also certify that I am an appropriately qualified and competent person practicing in the relevant area of work. I have recognised relevant experience in the area of work being certified. I / my employer hold/s appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

<i>Name:</i>	Jarrod Novosel	<i>Licence No.:</i>	RPEQ 8193 NER
<i>Company Name:</i>	ACOR CONSULTANTS	<i>ABN No:</i>	40079306246
<i>Company Address:</i>	Level 7, 22 Cordelia St, South Brisbane, QLD 4101	<i>Tel:</i>	07 3844 5900
<i>Signature:</i>		<i>Position Title:</i>	Structural Team Leader
		<i>Date:</i>	30/01/2024



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 South Brisbane QLD 4101
 Telephone: T +61 7 3844 5900
 www.acor.com.au

SITE INSPECTION REPORT

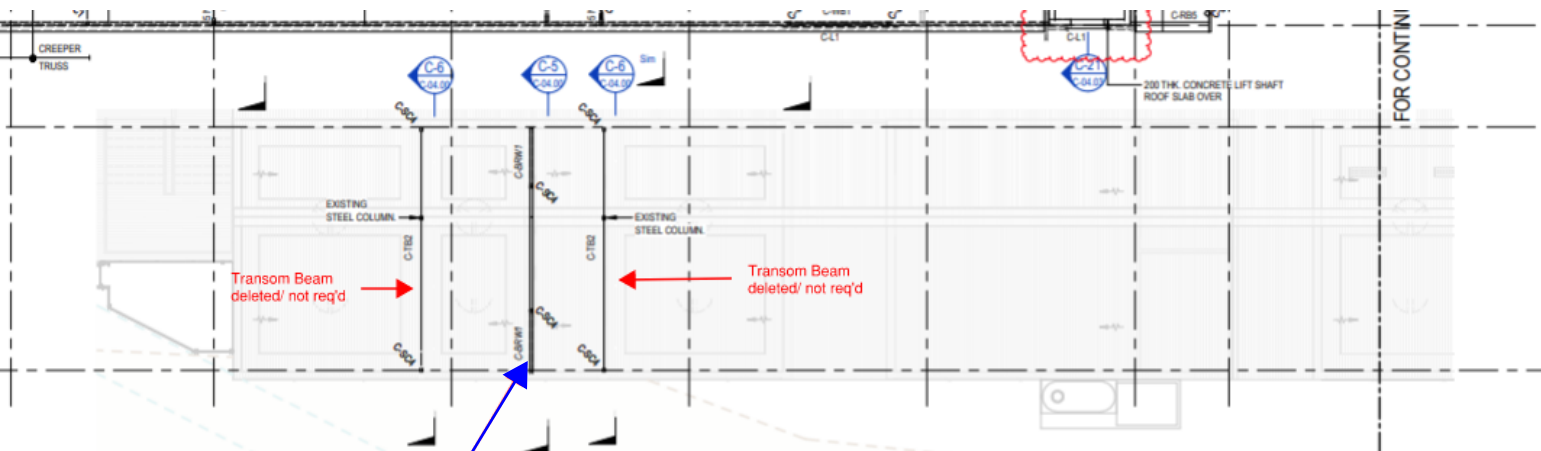
Project: Kingscliff High School		Contractor: RCC
Date of Inspection: 11/12/20232		Start Time: 9:30 am
Inspection by: Richard Smith		Finish Time: 9:50am
ACOR Project No: BR210028		Weather: Fine
Inspection Report No: KHS-048	No. Pages:	Site Manager Name: Nick Packer
Works Inspected: Steel beams and bracing walls Building C West and East		
Drawing Reference: KHS-s-C04.00		

Engineered (engaged by ACOR Consultants) were invited to site to undertake an inspection to examine and check for congruence with the latest issued For Construction documentation and any issued site advices. Please refer to the accompanying Comment Plan for the scope of the areas inspected. The works were found to be generally in accordance with the structural documentation, with the exception of the following outstanding items and comments:

1. Extent refer marked up attachment
2.
3. All steel work and bracing satisfactory
4.
5.
6.
7.
8.
9.
10.
11.

Inspecting Engineer Signature: _____

Site Manager Signature: _____



Operable wall head inspected 11/12/2023

FIRE RATING:

ALL STRUCTURAL STEELWORK MUST MEET FIRE RATING REQUIREMENTS PER BUILDING SURVEYOR. REFER ARCH.

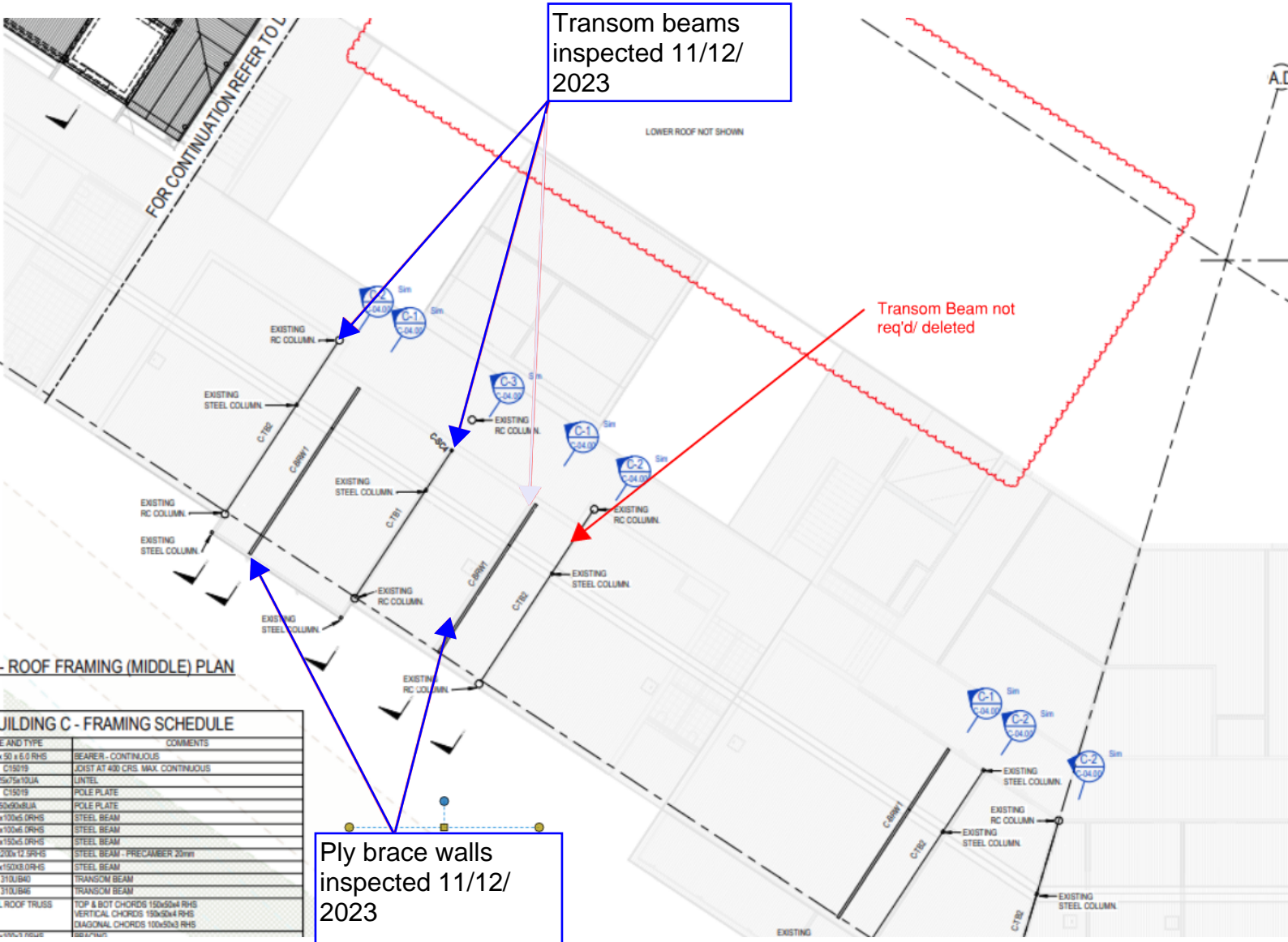
TRUSS NOTE:

EVERY 2ND TRUSS TO STEEL BEAM SHALL HAVE FULL DEPTH CLEAT PLATES TO STEEL BEAM TO RESTRAIN BOTH FLANGES.

BUILDING C - FRAMING SCHEDULE		
MARK	SIZE & TYPE	COMMENTS
C-RHS	200x100x5.0RH-S	BEARER - CONTINUOUS
C-RS	200x100x6.0RH-S	STEEL BEAM
C-RB	200x100x5.0RH-S	JOIST AT 400 CRS. MAX. CONTINUOUS
C-IA		INTEL
C-IA		POLE PLATE
C-IB		POLE PLATE
C-RB3	200x100x5.0RH-S	STEEL BEAM
C-RB4	200x100x6.0RH-S	STEEL BEAM
C-RB5	200x100x5.0RH-S	STEEL BEAM
C-RB6	300x200x12.0RH-S	STEEL BEAM - PRECAMBER 20mm
C-RB7	250x150x8.0RH-S	STEEL BEAM
C-TB1	310UB40	TRANSOM BEAM
C-TB2	310UB48	TRANSOM BEAM
C-TR1	STEEL ROOF TRUSS	TOP & BOT CHORDS 150x50x4 RH-S VERTICAL CHORDS 150x50x4 RH-S DIAGONAL CHORDS 100x60x3 RH-S
C-VB1	100x100x3.0SH-S	BRACING
C-WB1	80x80x5.0SH-S	WALL BEAM
C-WB2	100x60x3.0SH-S	WALL BEAM

BUILDING C - WALL SCHEDULE				
MARK	SIZE & TYPE	WALL REINFORCEMENT		COMMENTS
		HORIZONTAL	VERTICAL	
C-BRW1	50mm FLY BRACING WALL	-	-	REFER DRAWING D-4.00
C-BW1	180 BLOCKWORK WALL	N16-400	N16-400	
C-LBW	50mm DAC STEEL STUD WALL	-	-	

BUILDING C - STEEL COLUMN SCHEDULE		
MARK	SIZE AND TYPE	COMMENTS
C-SC1	80x80x5.0SH-S	STEEL COLUMN
C-SC2	100x100x5.0SH-S	STEEL COLUMN
C-SC3	200x100x5.0SH-S	STEEL COLUMN
C-SC4	80x80x6.0SH-S	STEEL COLUMN
C-SC5	180x6.4 CHS	STEEL COLUMN
C-LPT	UNI-PER- HEAVY DUTY (170 CR40 AD)	TELESCOPIC POST AND HEAD



Transom beams inspected 11/12/2023

Transom Beam not req'd/ deleted

Ply brace walls inspected 11/12/2023

ROOF FRAMING (MIDDLE) PLAN

BUILDING C - FRAMING SCHEDULE

ITEM TYPE	COMMENTS
150 x 150 RHS	BEARER - CONTINUOUS
C19219	JOIST AT 400 CRS MAX CONTINUOUS
50x75x10LA	LINTEL
C19219	POLE PLATE
50x60x8LA	POLE PLATE
100x6 DRHS	STEEL BEAM
100x6 DRHS	STEEL BEAM
150x6 DRHS	STEEL BEAM
200x12 DRHS	STEEL BEAM - PRECAMBER 20mm
150x6 DRHS	STEEL BEAM
310LB40	TRANSOM BEAM
310LB46	TRANSOM BEAM
ROOF TRUSS	TOP & BOT CHORDS 150x50x4 RHS VERTICAL CHORDS 150x50x4 RHS DIAGONAL CHORDS 100x50x3 RHS

Nerisa Balliu

From: Nick Packer <auto-reply-au1@au.aconex.com>
Sent: Wednesday, 20 December 2023 11:01 AM
To: Nerisa Balliu
Subject: RCC-GCOR-010906: Re: KHS Building C (West) - Structural Steel Shop Drawings
ACNXREF<w3tkSyx5fQNLJ3uMjUdulB>

When replying, do not delete the content below this line.

You have received a new **General Correspondence: RCC-GCOR-010906**

Project: Kingscliff Schools
Type: General Correspondence
Mail Number: RCC-GCOR-010906
Reference Number: RCC-RFI-002280
To: **Ms Nerisa Balliu, ACOR Consultants (QLD) Pty Ltd**
Mr Jarrod Novosel, ACOR Consultants (QLD) Pty Ltd
Mr Aaron Blakeney, Bickerton Masters Architecture
Cc: Mr Lachlan Box, Richard Crookes Constructions Pty Limited
Mr Darren Lovell, Richard Crookes Constructions Pty Limited
Damian O'Leary, Richard Crookes Constructions Pty Limited
From: N Packer, Richard Crookes Constructions Pty Limited
Sent: 20/12/2023 12:01:21 PM AEDT (GMT +11:00)
Status: N/A
Subject: **Re: KHS Building C (West) - Structural Steel Shop Drawings**

Hi Nerisa,

Yes, can confirm Ply Bracing has been installed as per ACOR detail including Operable Door openings.

Regards,

Nick Packer, Site Engineer

RICHARD CROOKES

CONSTRUCTIONS

Direct 07 3099 0899 | Mobile 0481 298 191
Level 6, 25 King St, Bowen Hills QLD 4006

www.richardcrookes.com.au

From: N Balliu
Sent: 20/12/2023 11:18:17 AM AEDT (GMT +11:00)
To: Nerisa Balliu, Jarrod Novosel, Aaron Blakeney, Nick Packer
Cc: Wayne Cadwallader, David Hart, Lachlan Box, Darren Lovell, Damian O'Leary
Mail Number: ACOR C-GCOR-000932
Subject: Re: KHS Building C (West) - Structural Steel Shop Drawings

Hi Nick,

Can you please confirm if you have installed the bracing ply on Building C West at the operable wall as per the advice below?

Kind Regards,

Nerisa Balliu
Structural Engineer
ACOR Consultants (QLD) Pty Ltd

Level 7, 22 Cordelia St
South Brisbane QLD 4101
PO Box 3635, South Brisbane, QLD 4101
T +61 7 3844 5900
E NBalliu@acor.com.au

From: N Balliu
Sent: 16/11/2023 11:54:24 AM AEDT (GMT +11:00)
To: Jarrod Novosel, Aaron Blakeney, Nick Packer
Cc: Wayne Cadwallader, David Hart, Lachlan Box, Darren Lovell, Damian O'Leary
Mail Number: ACOR C-RTRFI-000177
Subject: Re: KHS Building C (West) - Structural Steel Shop Drawings

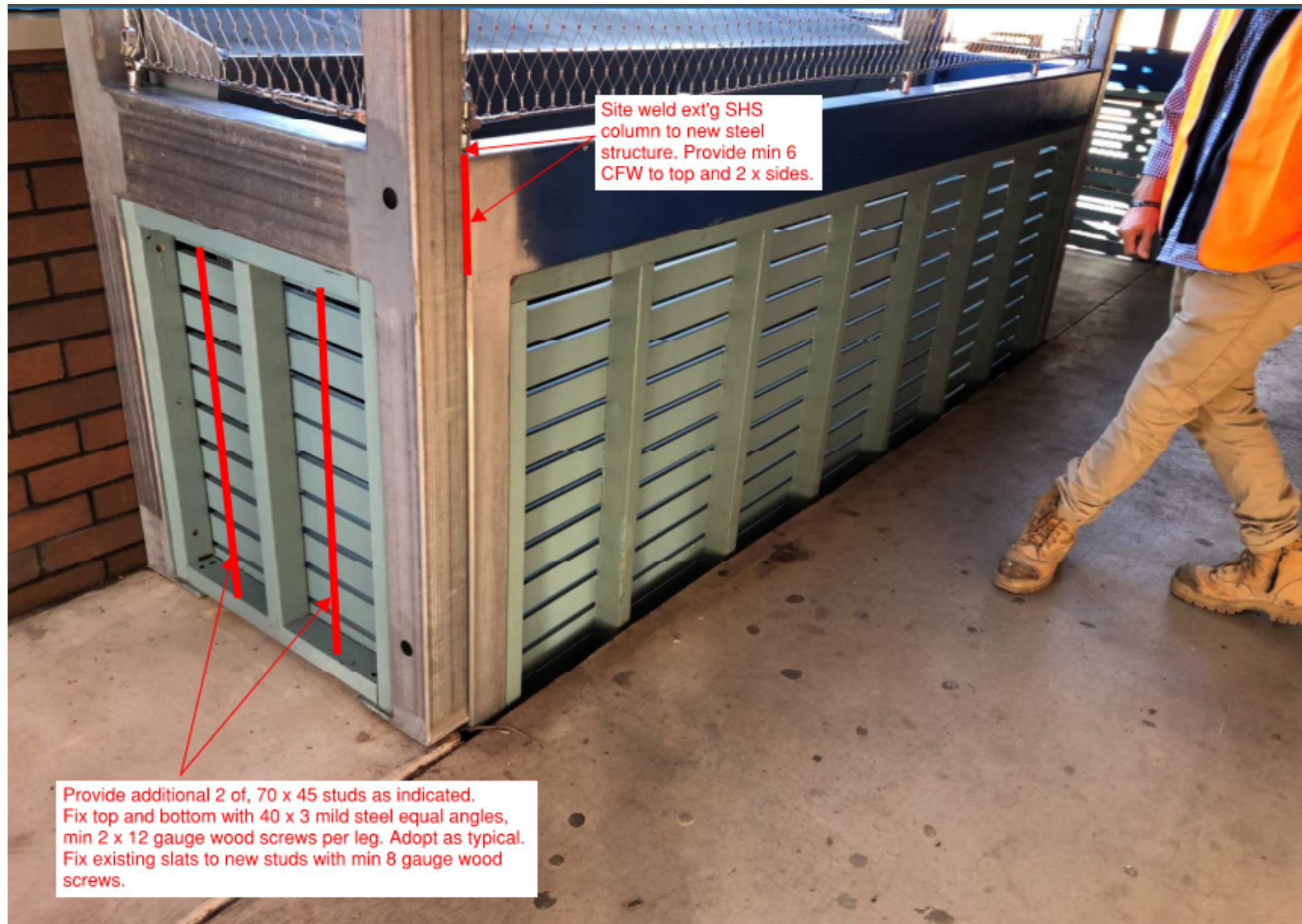
Hi Nick,

Have you confirmed there is an existing steel column within the wall framing that need to be cut? If there is not, the transom beams will not be required.

The operable wall header detail will be as per the attached detail with 2 steel posts either side of the opening and a 200 PFC header cantilevering both sides. The steel posts need to be laterally restrained by struts that connect to existing roof rafters. The structural bracing ply must be installed on either side of the opening as per our details.

Kind Regards,

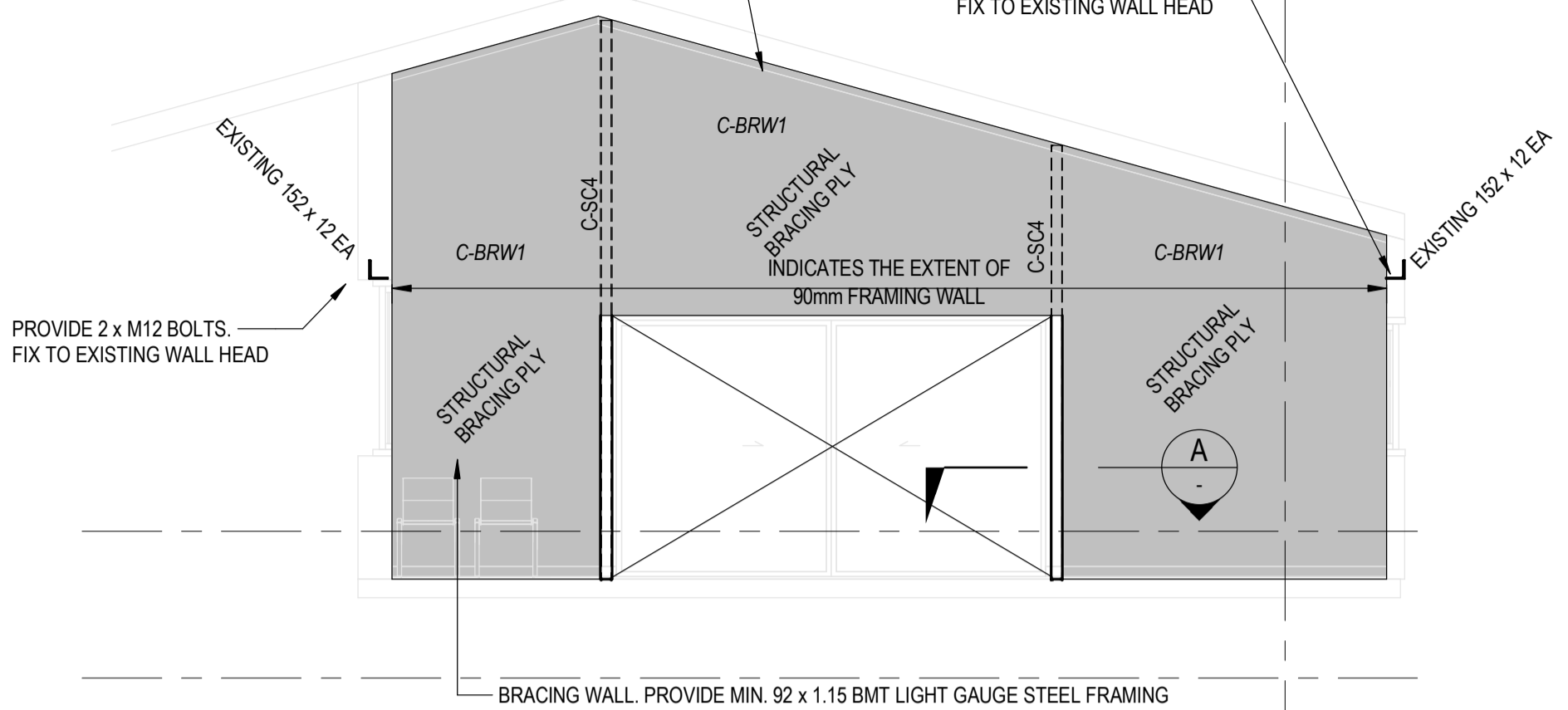
Nerisa Balliu
Structural Engineer



Site weld ext'g SHS column to new steel structure. Provide min 6 CFW to top and 2 x sides.

Provide additional 2 of, 70 x 45 studs as indicated. Fix top and bottom with 40 x 3 mild steel equal angles, min 2 x 12 gauge wood screws per leg. Adopt as typical. Fix existing slats to new studs with min 8 gauge wood screws.

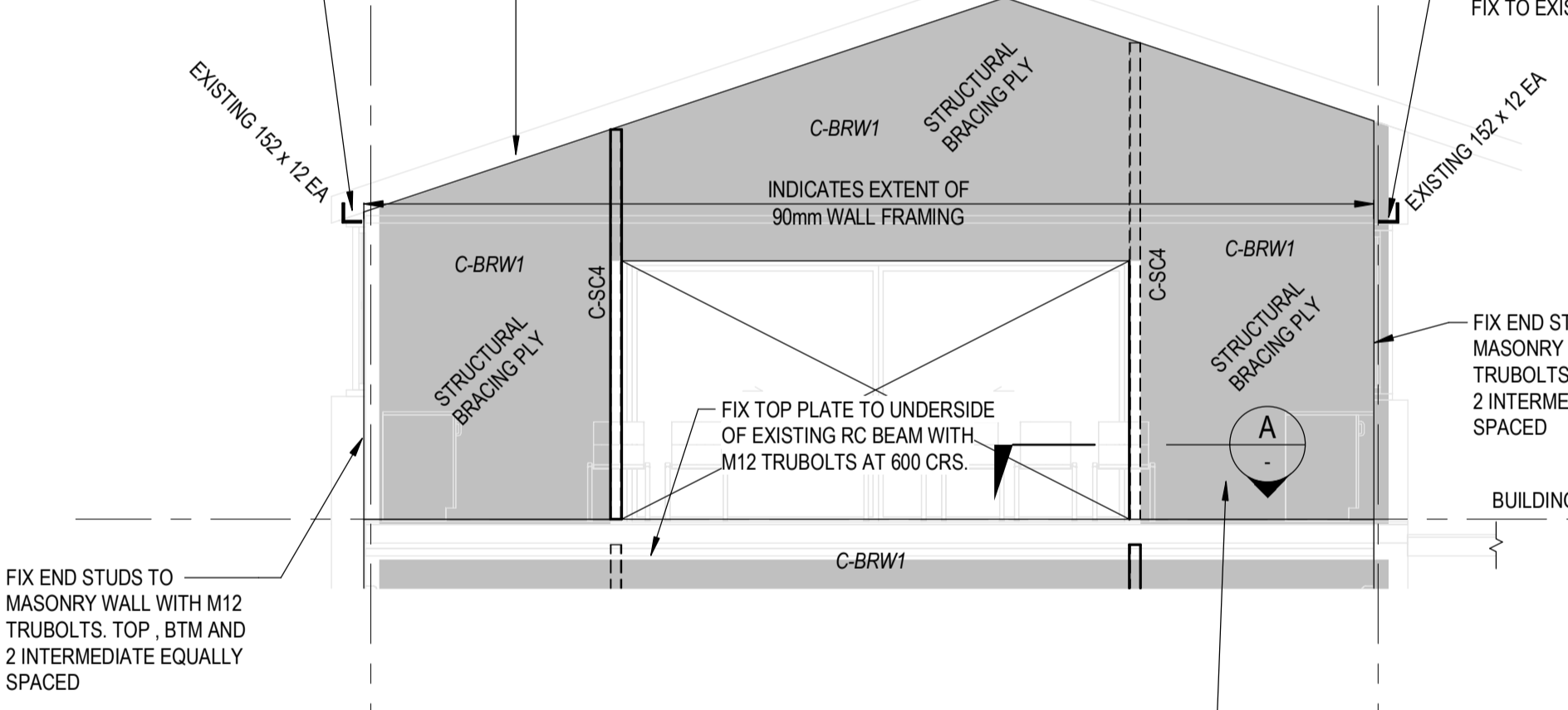
- TOP PLATE RESTRAINT.
1. REMOVE EXISTING CEILING LINING LOCALLY
 2. ENSURE NEW FRAMING EXTENDS TO UNDERSIDE OF PURLINS
 3. EXISTING PURLINS - 175 STRAMIT "T" BEAMS AT 1260 CRS.
 4. PROVIDE 1 x M12 4.6 GRADE BOLT BETWEEN TOP PLATE AND PURLIN AT EACH PURLIN LOCATION



TYPICAL BRACING WALL ELEVATION

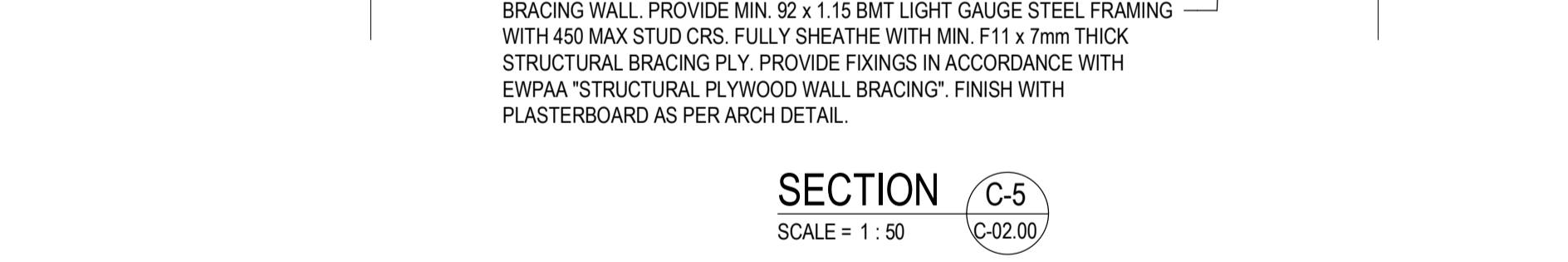
SECTION C-1
SCALE = 1 : 50

- TOP PLATE RESTRAINT.
1. REMOVE EXISTING CEILING LINING LOCALLY
 2. ENSURE NEW FRAMING EXTENDS TO UNDERSIDE OF PURLINS
 3. EXISTING PURLINS - 175 STRAMIT "T" BEAMS AT 1260 CRS.
 4. PROVIDE 1 x M12 4.6 GRADE BOLT BETWEEN TOP PLATE AND PURLIN AT EACH PURLIN LOCATION

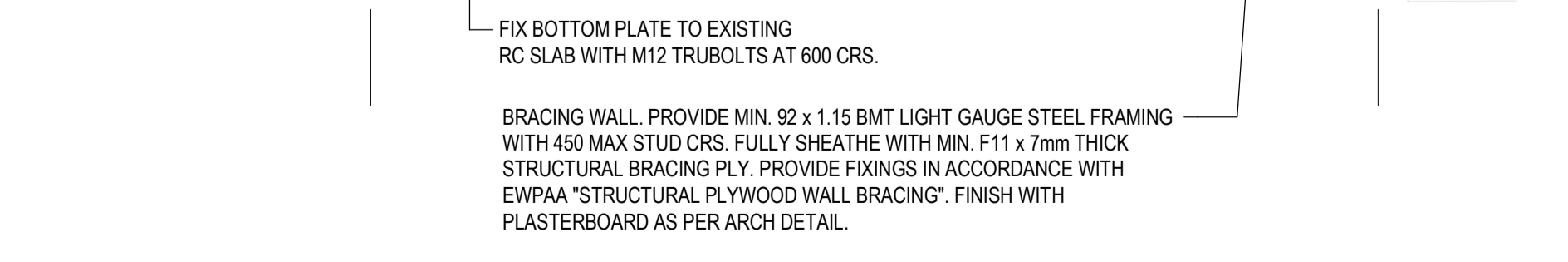
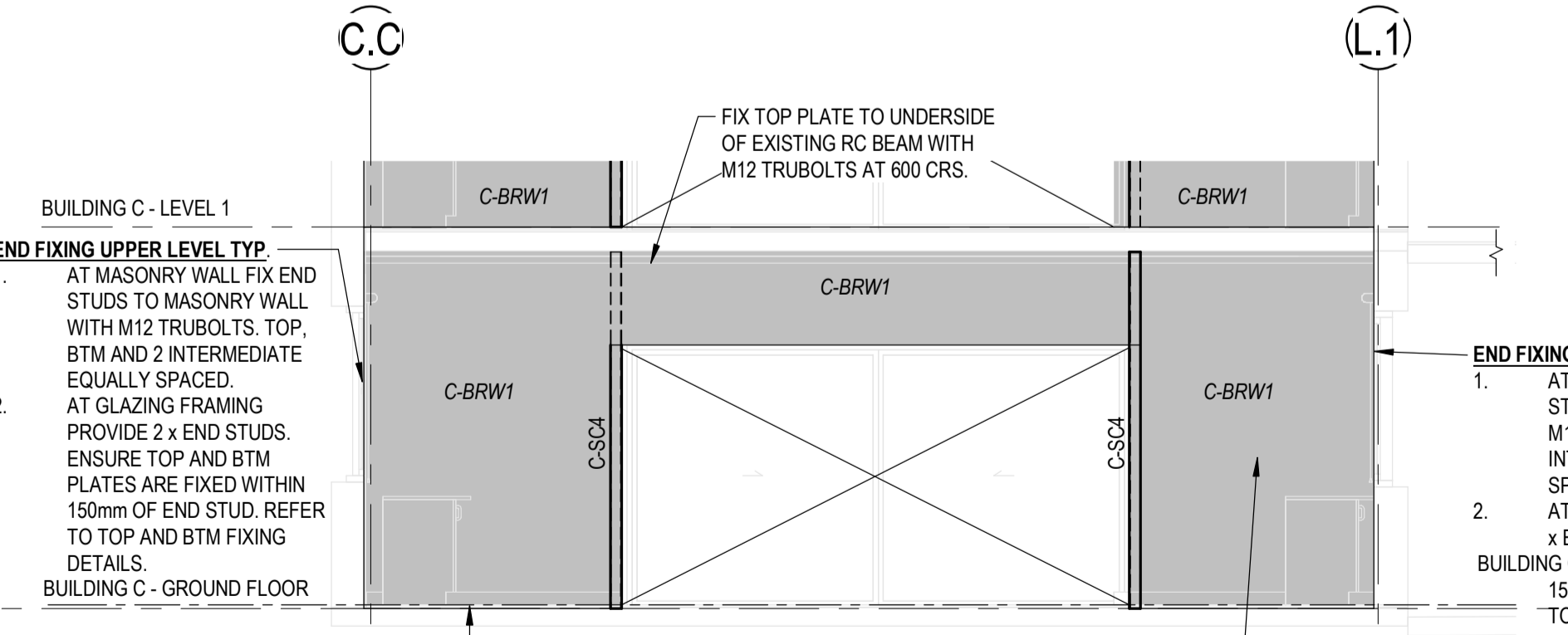


TYPICAL TRANSOM BEAM ELEVATION

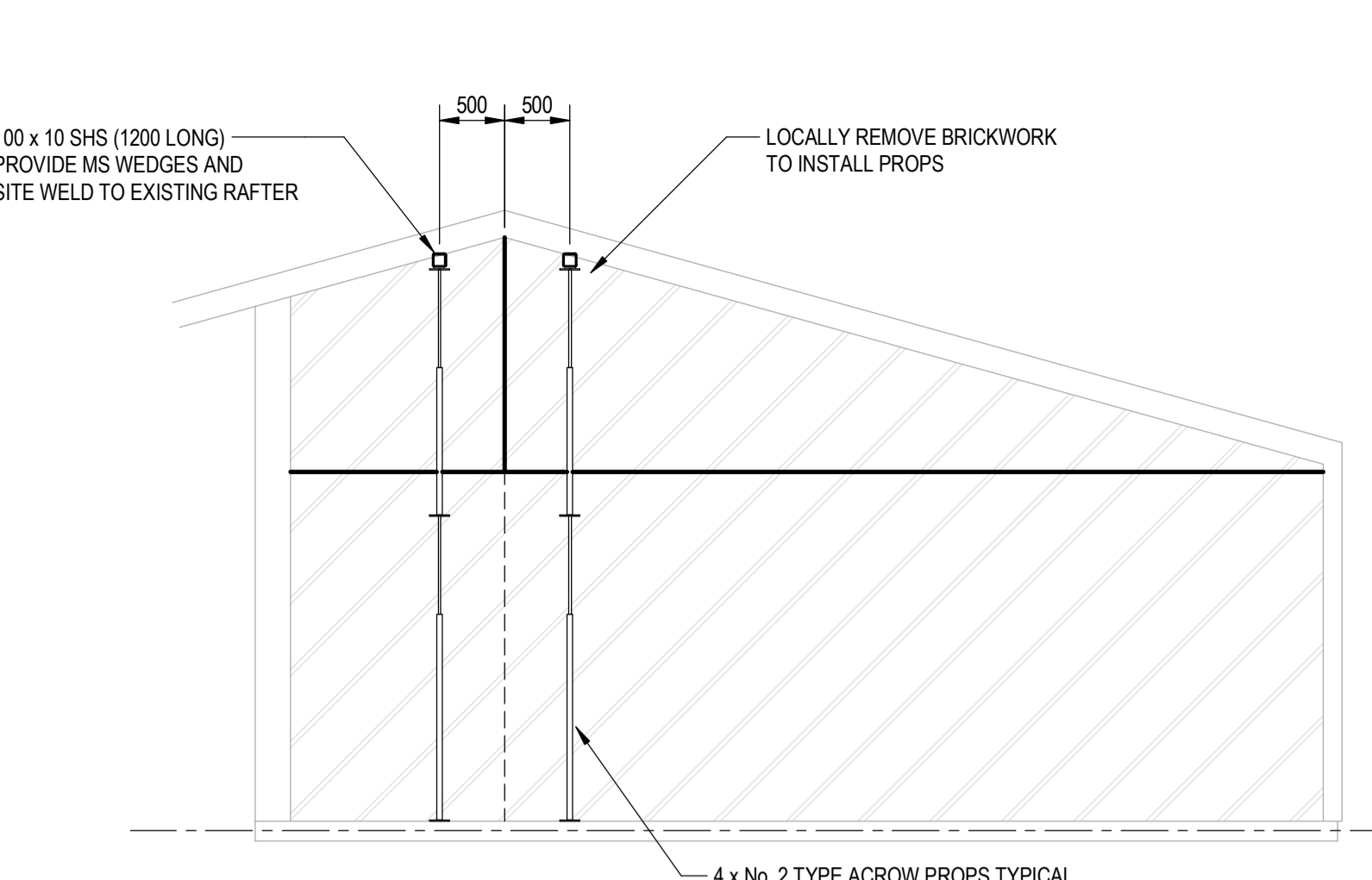
SECTION C-2
SCALE = 1 : 50



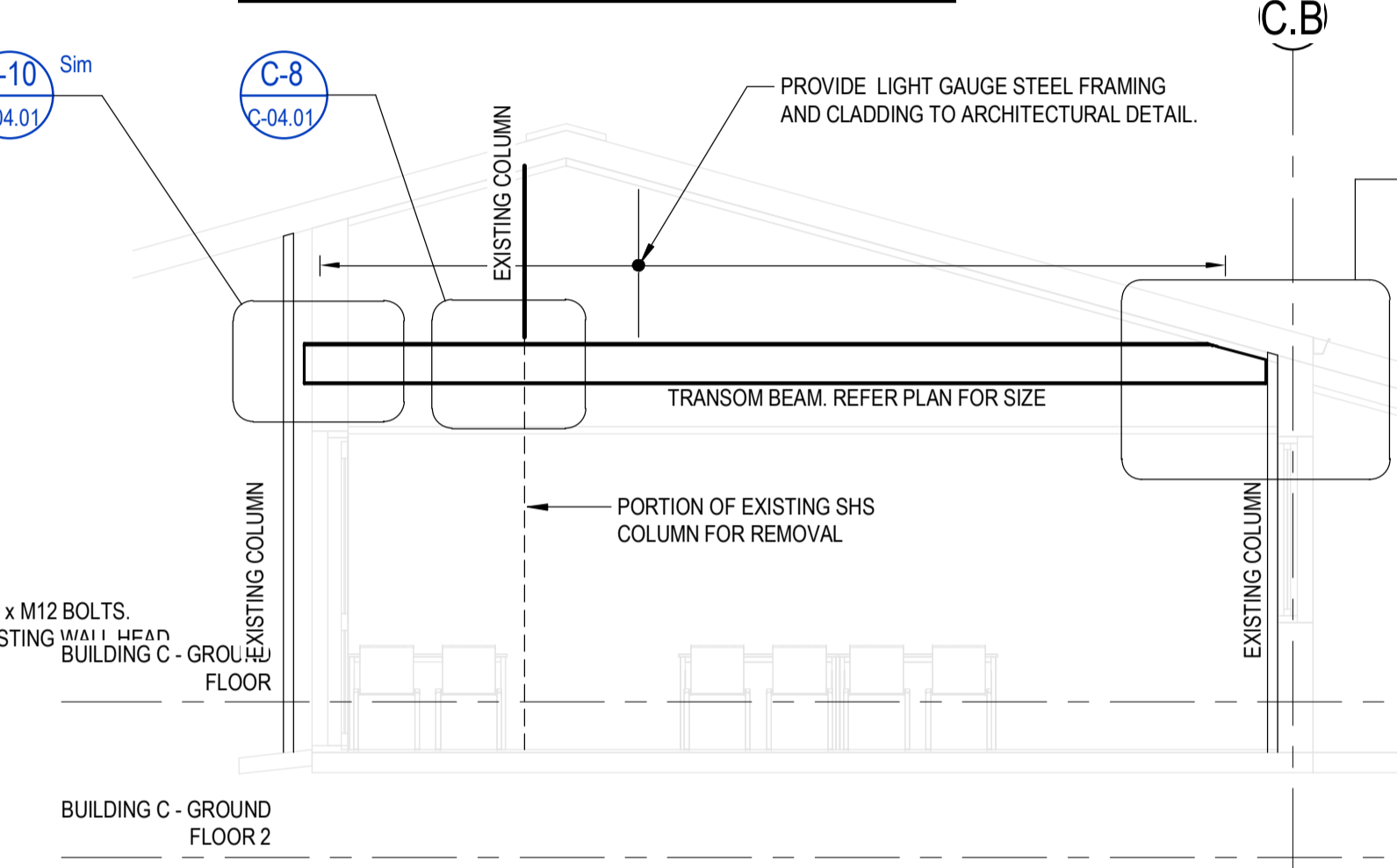
SECTION C-5
SCALE = 1 : 50



SECTION C-4
SCALE = 1 : 50

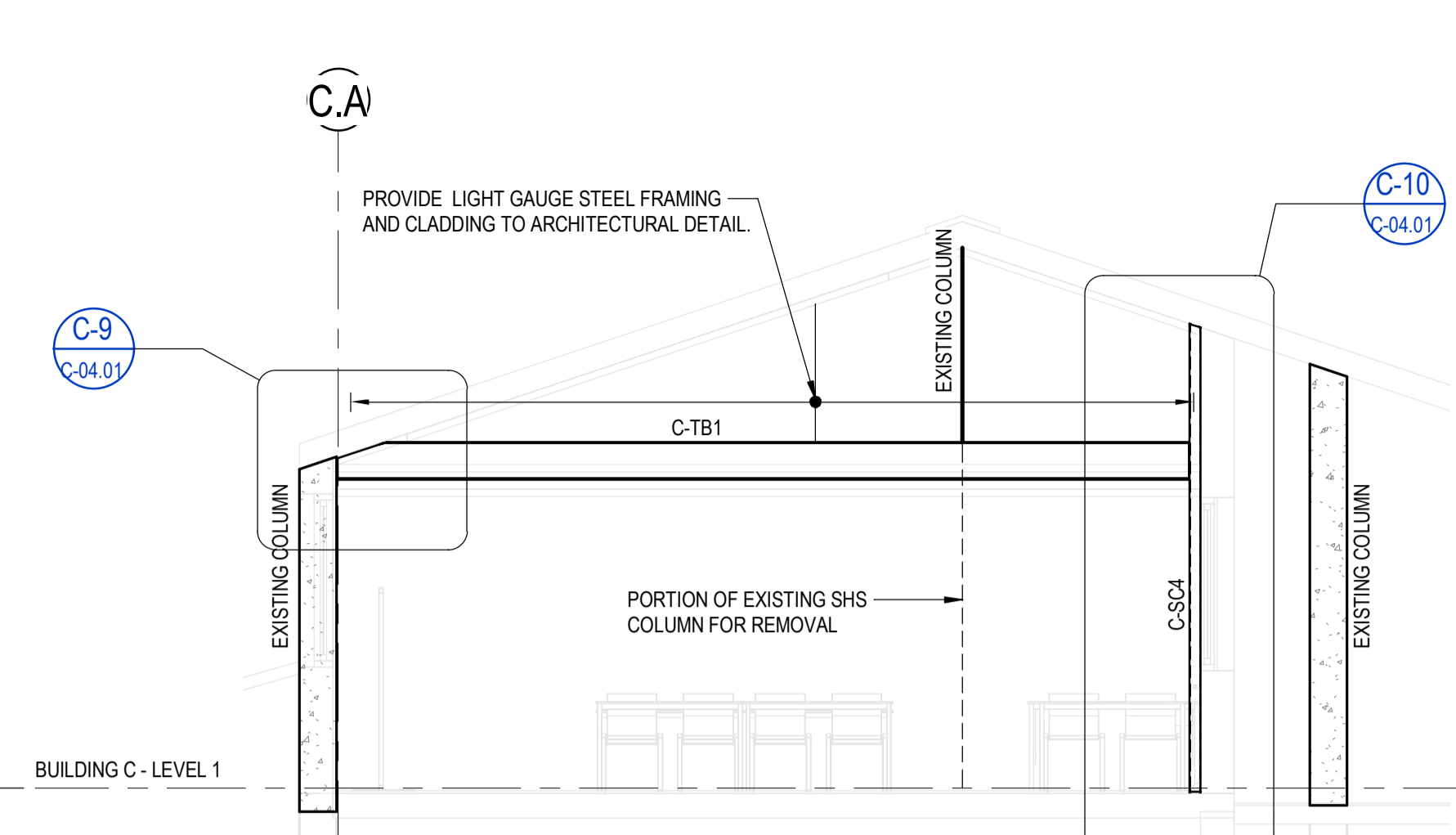


TEMPORARY PROPPING AND DEMOLITION ELEVATION BEFORE INSTALLING TRANSOM BEAM

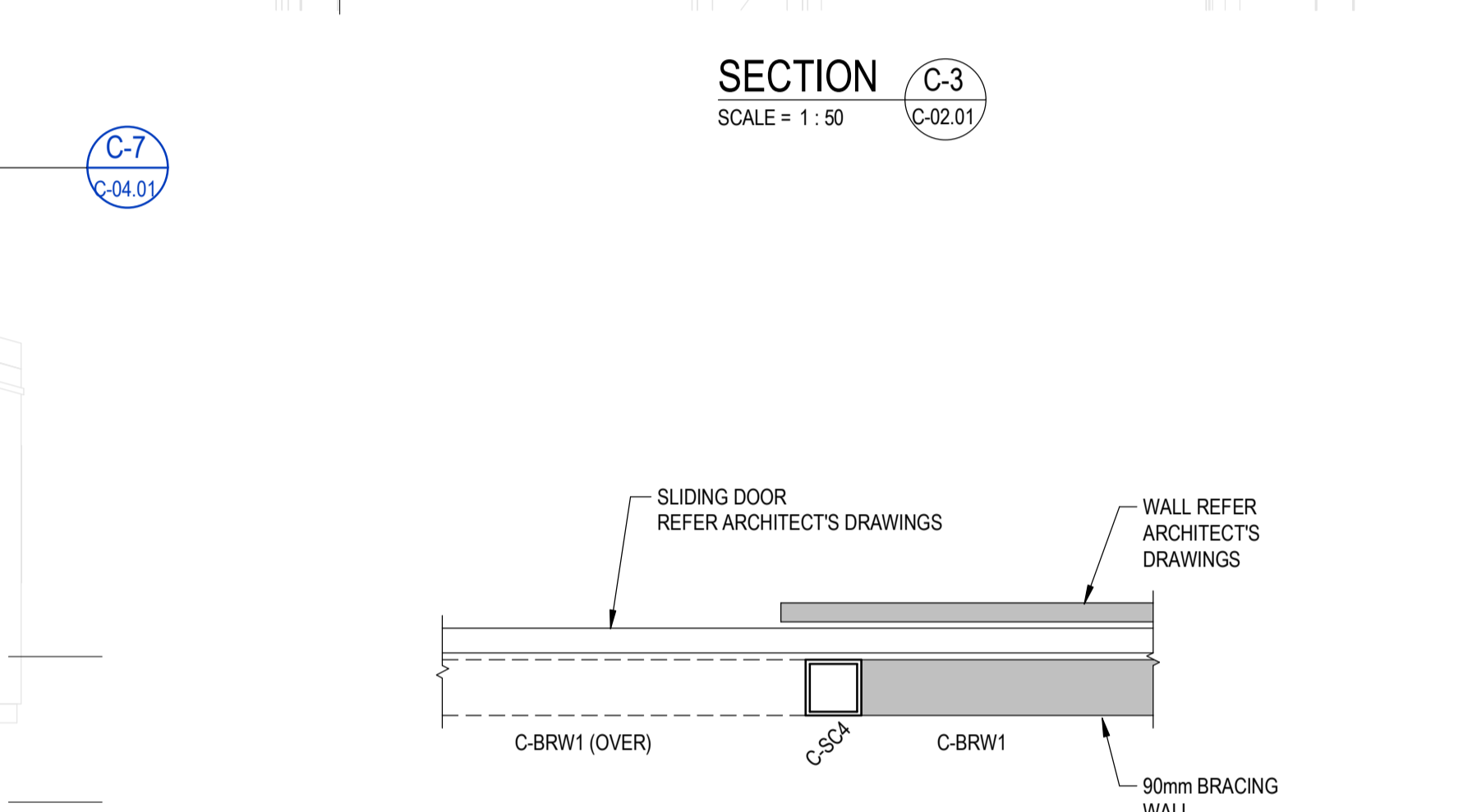


TYPICAL TRANSOM BEAM ELEVATION

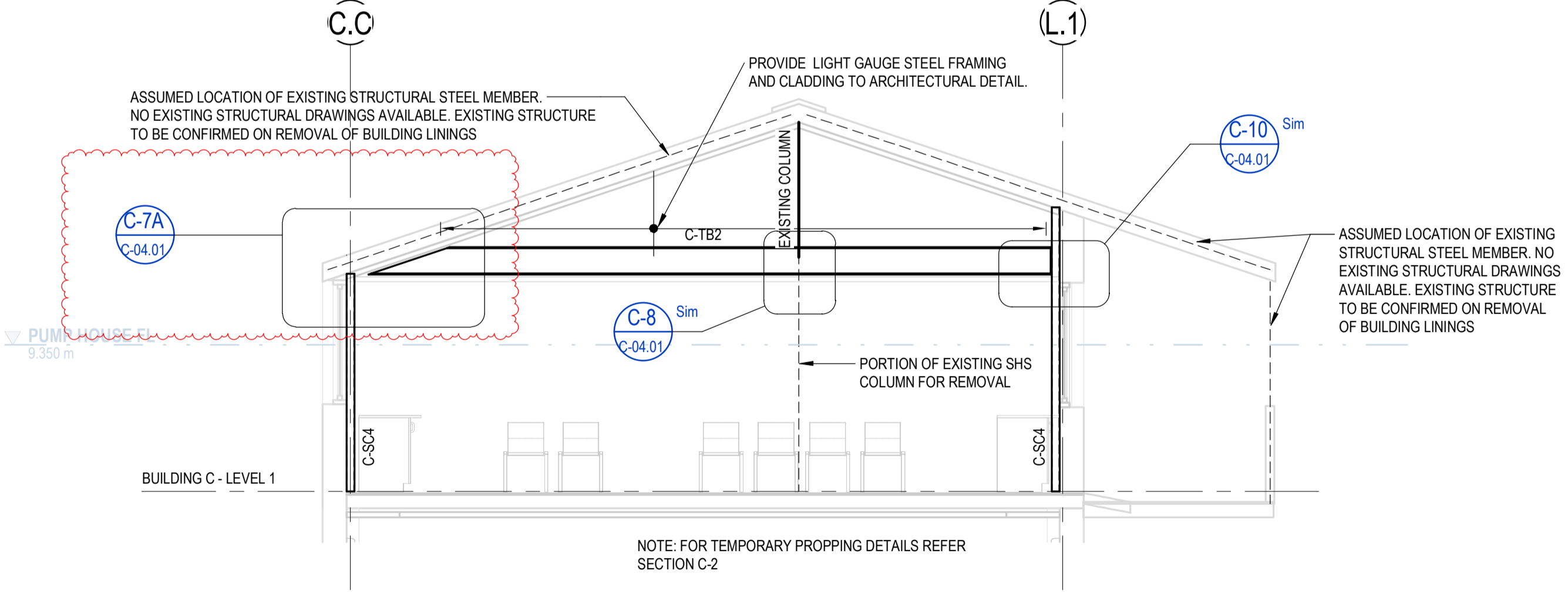
SECTION C-2
SCALE = 1 : 50



SECTION C-3
SCALE = 1 : 50



SECTION A
SCALE = 1:10

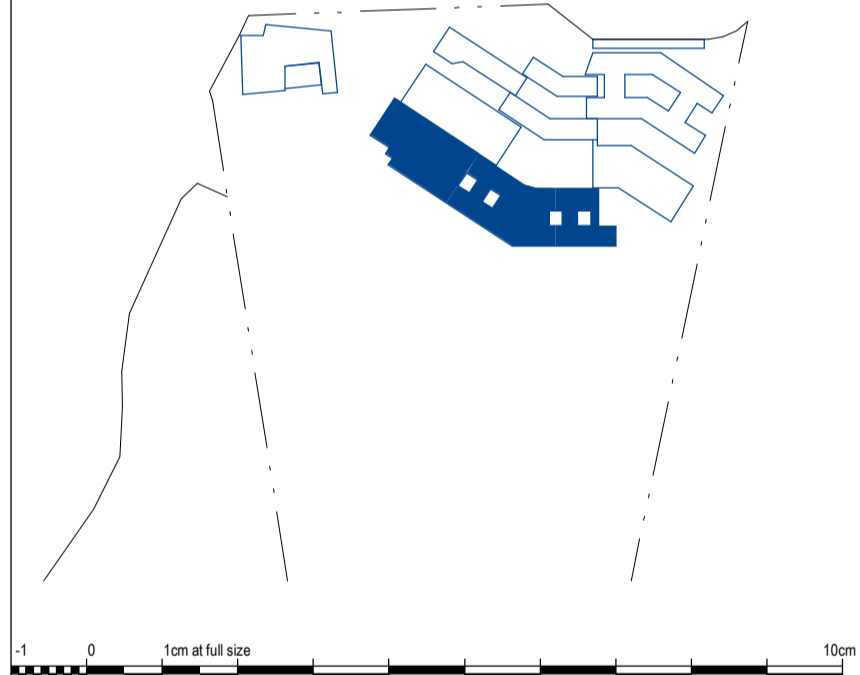


SECTION C-6
SCALE = 1 : 50

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This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by: Approver

Issue	Description	Date	Drawn	Approved
A	50% DD ISSUE	02/03/2021	DC	JH
B	100% DD ISSUE	23/04/2021	PRS	JH
1	CONSTRUCTION ISSUE	11/06/2021	NF	JH
2	CONSTRUCTION ISSUE REVISED	04/06/2021	DJN	JH



Client
RICHARD CROOKES CONSTRUCTIONS

NSW Education School Infrastructure

Architect
BIM

BRISBANE (07) 3257 3622
99 BROOKES STREET
FORTITUDE VALLEY
4006, QLD
www.bickertonmasters.com.au

Project
KINGSCLIFF HIGH SCHOOL - STAGE 2 MAIN WORKS

33 OXFORD ST. KINGSCLIFF, NSW

ACOR Consultants (QLD) Pty Ltd
Level 4, 43 Peel Street
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Drawing Title
STRUCTURAL BUILDING C - SECTIONS SHEET 1

Drawn	Date	Scale	A1	O.A. Check	Date
DC	MAY 2021	As indicated	DS	DS	JUN 2021
Designed	Project No.	Dwg No.	Issue		
JH	BR210028	KHS-S-C-04.00	2		

FOR CONSTRUCTION