

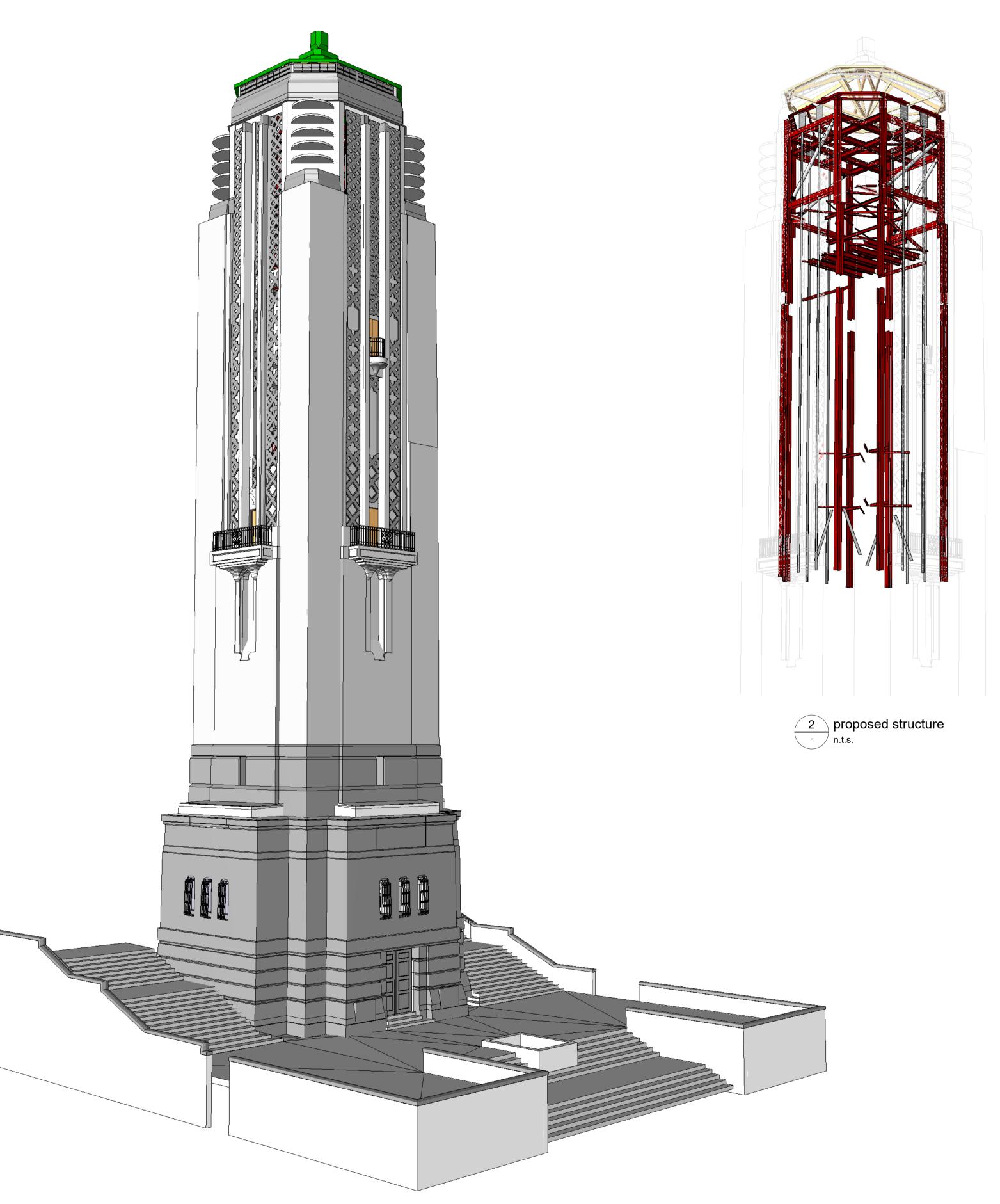


NATIONAL WAR MEMORIAL CARILLON TOWER

Project 144373.13

drawing index

	<u> </u>
S00-02	notes
S01-01	ground floor plan
S01-02	levels 5-5A floor plans
S01-03	levels 5B-6 floor plans
S01-04	levels 7-7A floor plans
S01-05	levels 7B-8 floor plans
S01-06	roof plan
S02-01	grid 1 elevation
S02-02	grid 3 elevation
S02-03	grid A elevation
S02-04	grid C elevation
S06-01	typical steel details
S06-02	steel details
S06-03	steel details
S06-04	steel details
S06-05	brick wall strengthening
S06-06	additional details
S06-11	lower bell frame isometric
S06-12	lower bell frame plans and elevations
S06-15	upper bell frame isometric
S06-16	upper bell frame plans
S06-17	upper bell frame plans
S06-18	upper bell frame elevations
S06-19	upper bell frame elevations
S06-21	lower bell frame details
S06-25	upper bell frame details



1 NE Perspective view n.t.s.

any s	All dimensions to be verified on site before making any shop drawings or commencing any work. The copyright of this drawing remains with Holmes NZ LP.					
F 01/03/24		building consent				
E 23/02/24 D 14/12/23		peer review				
C 22/09/23 B 25/08/23		peer review				
Rev Date	Appd	Reason				
Consultants						
		Holmes NZ LP				
		254 Montreal Street Christchurch 8013				
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general notes:

- All drawings to be read in conjunction with the Holmes Structural Specification.
- 2. Refer to Architects & Services Engineers drawings for all setout dimensions, reduced levels, opening sizes, slab setdowns, falls, rebates & edge details, cast-in Architectural items, cast-in services fixtures & services penetrations.
- Refer to Architects drawings and specification for all waterproofing details & requirements.
- 4. Temporary propping indicated in this drawing set is not exhaustive. Unless specifically noted on the drawings, the design, location and layout of temporary propping is the responsibility of the contractor.
- This drawing set contains colour. All reproduction to be in colour. 5.
- 6. All condition survey works, (including concrete repair and steel corrosion), not shown in this set.
- Levels shown on these drawings are provided by onsite survey and shall be verified before fabrication of elements.
- 8. Structural elements are required to pass through existing walkway platforms and access ladders and the like. These elements will require make-good works after structural installation including but not limited to additional steel supports and minor relocation. Extent to be confirmed on site.
- 9. For all existing brick walls allow to timber frame and helifix to the walls, or remove completely. Refer architect.
- 10. Allow to isolate existing reinforced concrete braces behind latticework refer detail 4/S06-03.

abbreviations:

alt approx arch(s) assy btm Bb BCS bldg c.f CHS CL col crs c.o.s conc c.j cont crr D DPC DPM Ø dp diag dwg embed extg EA e.f e.s e.w EQ f.f flg FFL FGL Fb galv GL HD horiz ID kg/m3 kN kPa lg LL	Alternate. Approximate. Architect(s). Assembly. Bottom. Bottom bottom (reinf). Bottom top (reinf). Bottom of steel. Building. Concrete filled. Circular hollow section. Centre line. Column. Centres. Check on site. Concrete. Contraction joint. Contraction joint. Continuous. Corner. Cover. Deformed reinforcing (300E). Damp proof course. Damp proof membrane. Diameter. Deep. Diagonal. Drawing. Embedment. Existing. Equal angle. Each face. Each side. Each side. Cound level. Heavy welded beam (Steltech). Holding down (bolt). Horizontal. Inside diameter. Kilogram per cubic metre. Kilonewton. Kilopascal. Long. Live load. Maximum
	Live load. Maximum. Megapascal.
m	Metre.

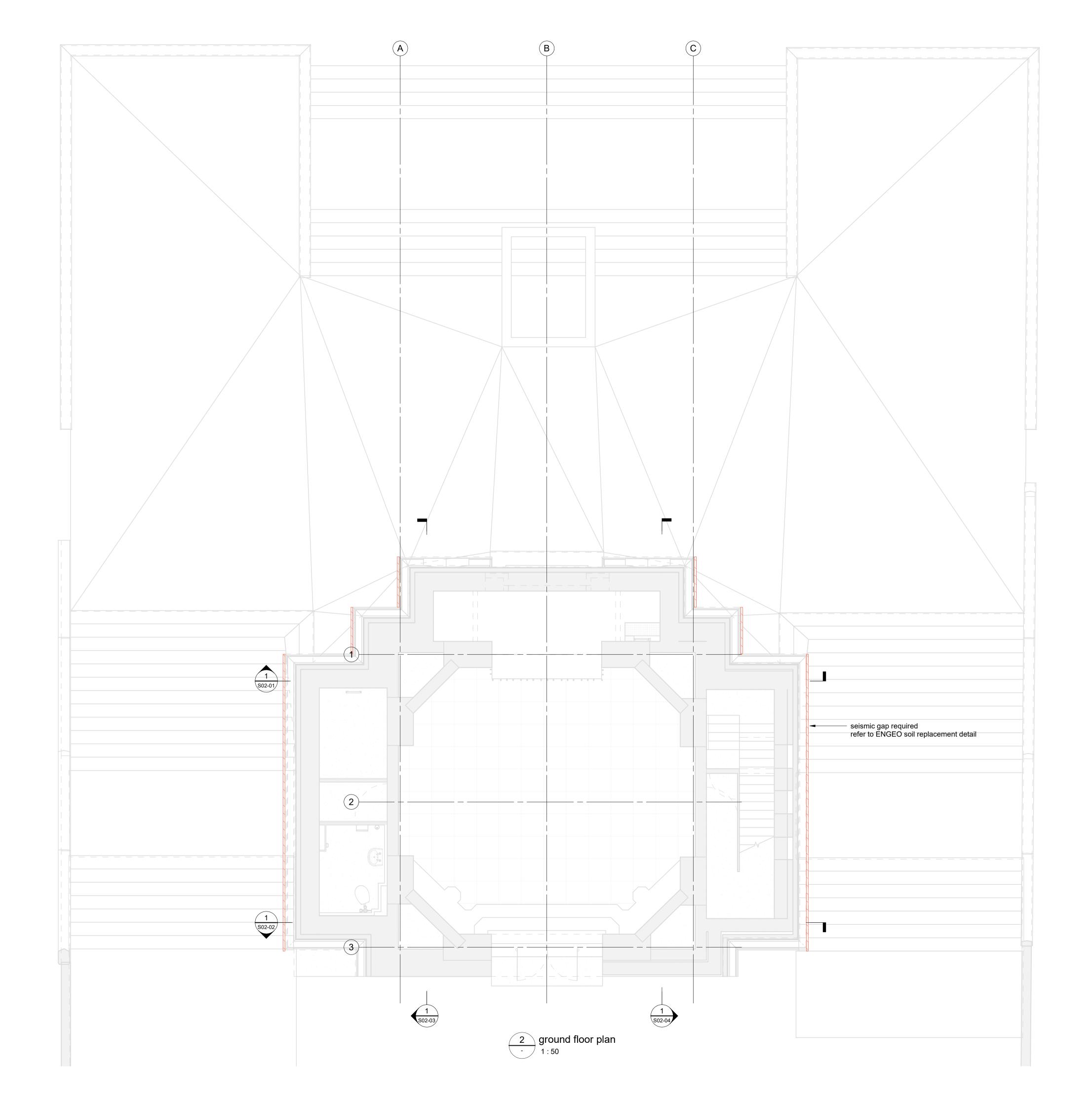
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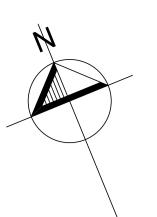
R

abbreviations:

Metric bolt ISO. Mild steel. Millimetre. Minimum. Near face. Not to scale. Outside diameter. Overall. Precast concrete. Parallel flange channel. Plate. Plain round reinforcing (300E). Radius. Reidbar reinforcing. Reduced level. Reinforcing. Required. Rectangular hollow section. Rolled steel joist. Snug fit bolt. Standard welded beam (Steltech). Superimposed dead load. Structural floor level. Similar. Splice. Specification. Square. Square hollow section. Staggered. Stainless steel. Stiffener. Starter(s). Stirrup(s). Top bottom (reinf). Tension bearing bolt. To be advised. To be confirmed. Tension friction bolt. Top top (reinf). Thick. Top of steel. Typical. Unequal angle. Unless noted otherwise. Underside. Universal beam. Universal column. Uniformly distributed load. Vertical. Welded beam (Steltech). Weld plate. Deformed reinforcing (500E). Plain round reinforcing (500E).

т	All dimensions to be verified on site before making any shop drawings or commencing any work. The copyright of this drawing remains with Holmes NZ LP.				
F	01/03/24	RAB	building consent		
E D	23/02/24 14/12/23	RAB RAB	peer review peer review		
C B	22/09/23 25/08/23	RAB RAB	peer review developed design		
Consu	ltants				
	loln	ne	Holmes NZ LP 254 Montreal Street Christchurch 8013 New Zealand holmesanz.com T: +64 3 366 3366		
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notes:

1. Refer to S00 series for all general notes.

F	01/03/24	RAB	building consent
E	23/02/24	RAB	peer review
D	14/12/23	RAB	peer review
С	22/09/23	RAB	peer review
В	25/08/23	RAB	developed design
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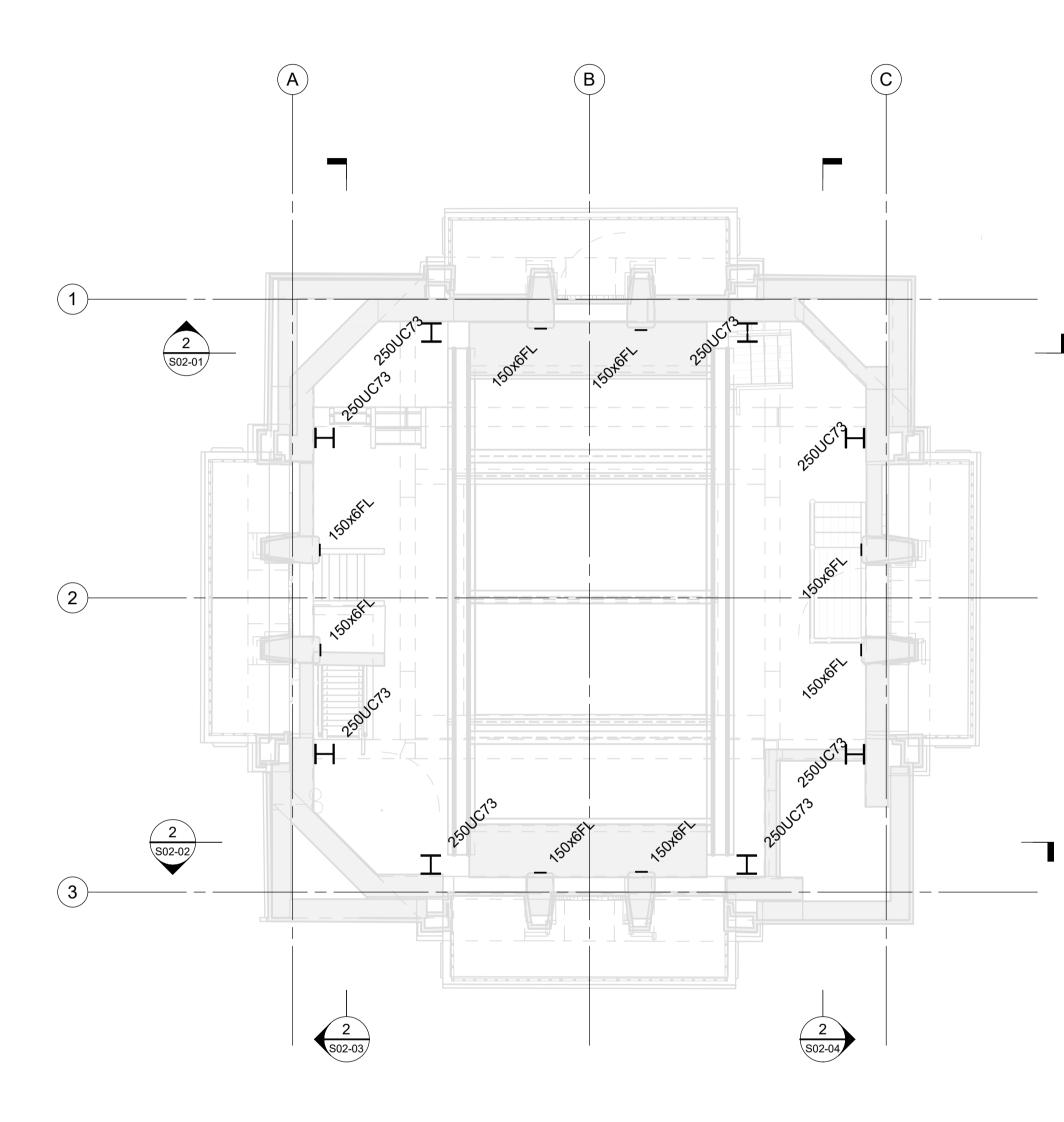
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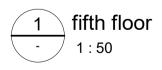
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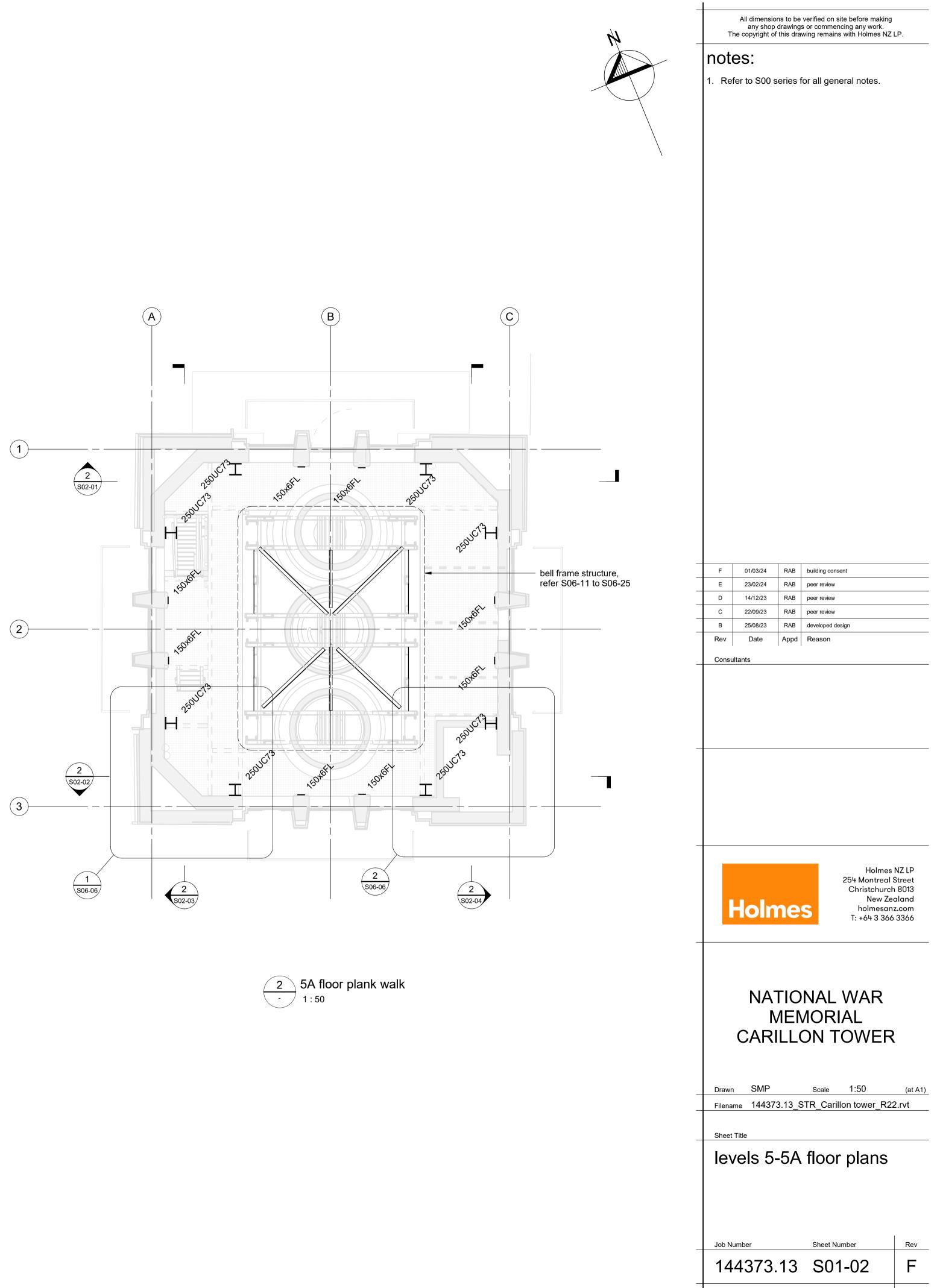
ground floor plan

Holmes

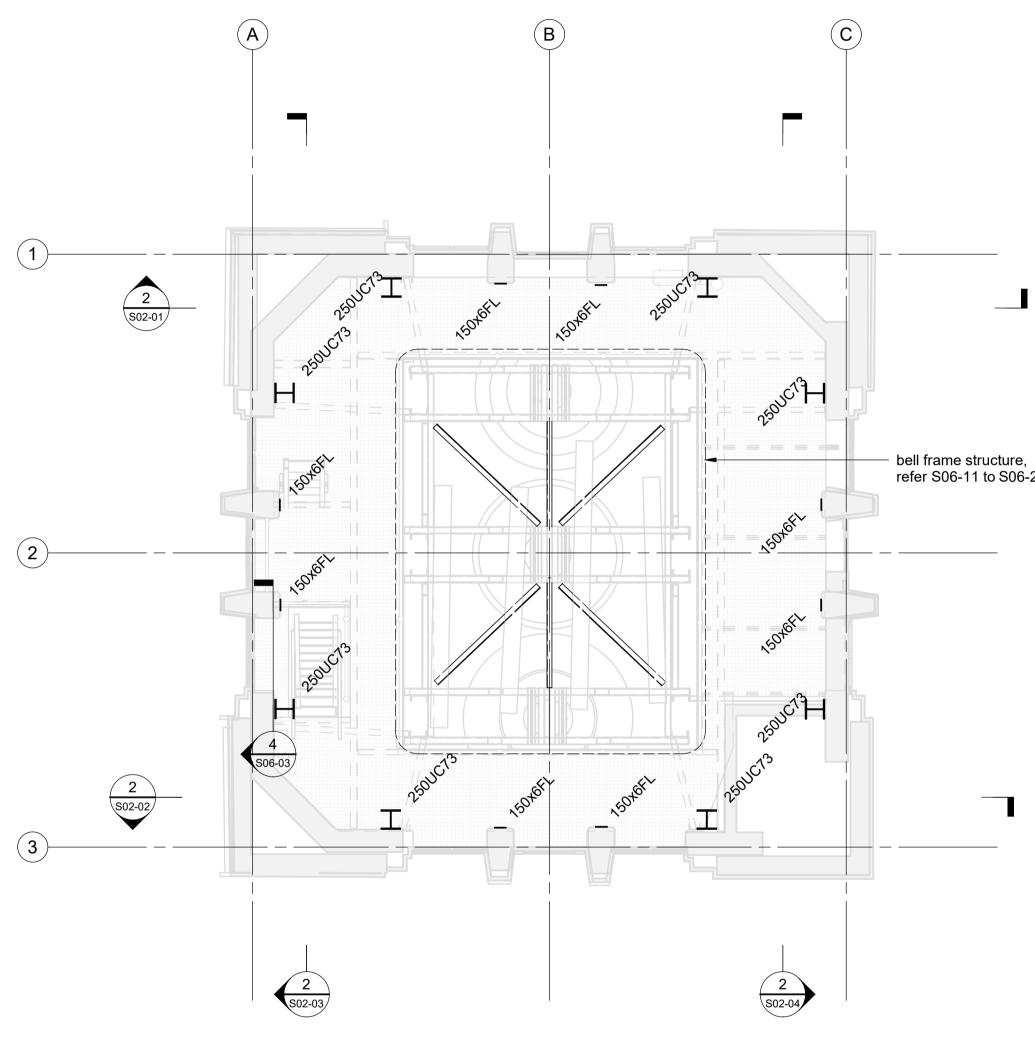
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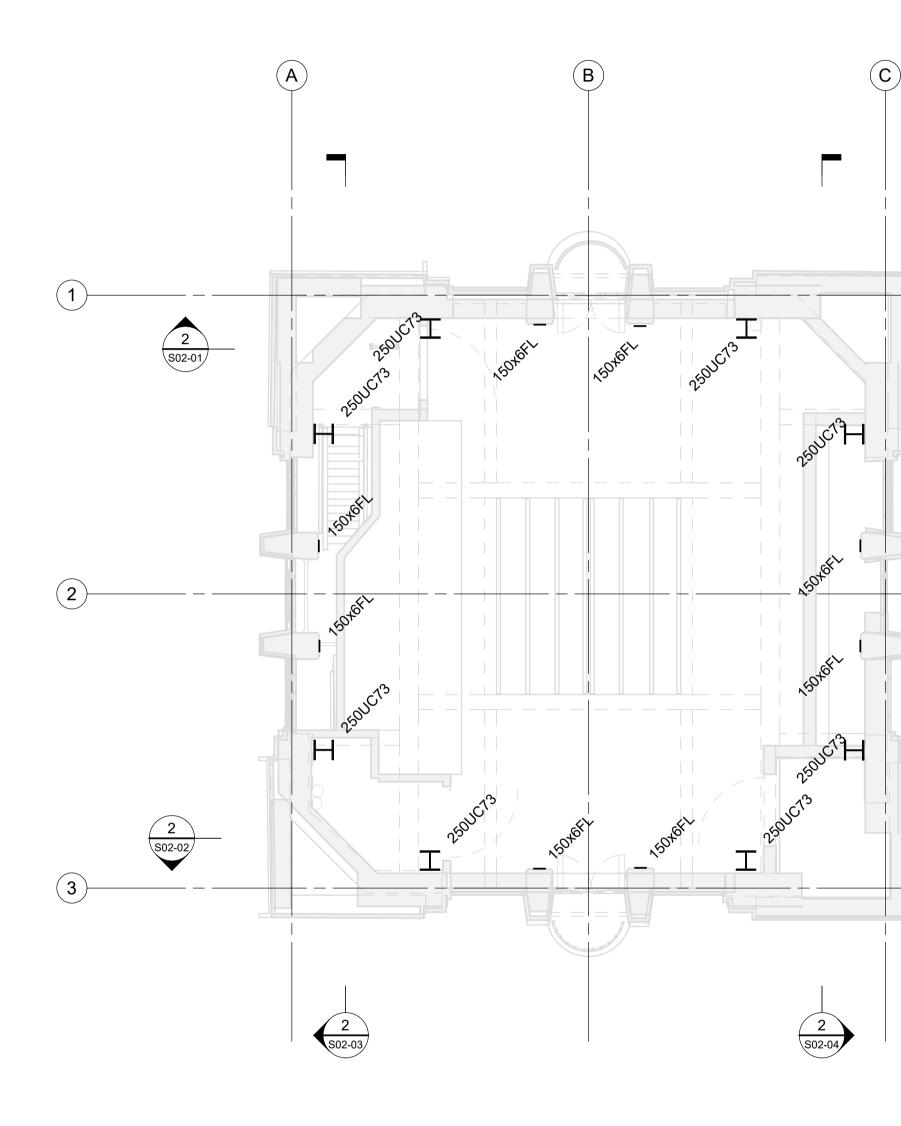


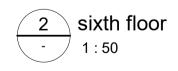




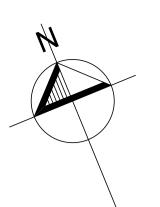


1 5B tomb light - 1:50





refer S06-11 to S06-25



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notes:

1. Refer to S00 series for all general notes.

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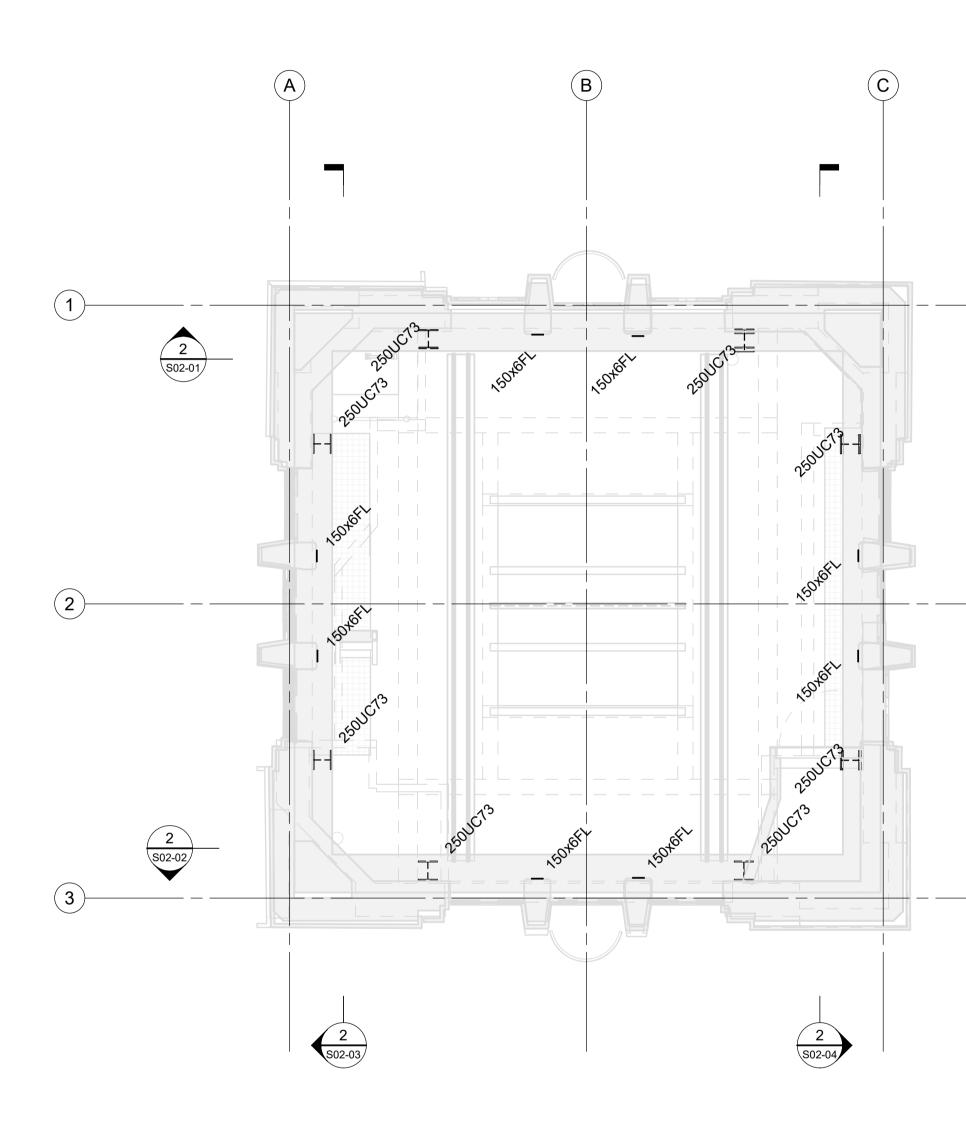
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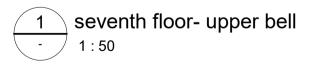
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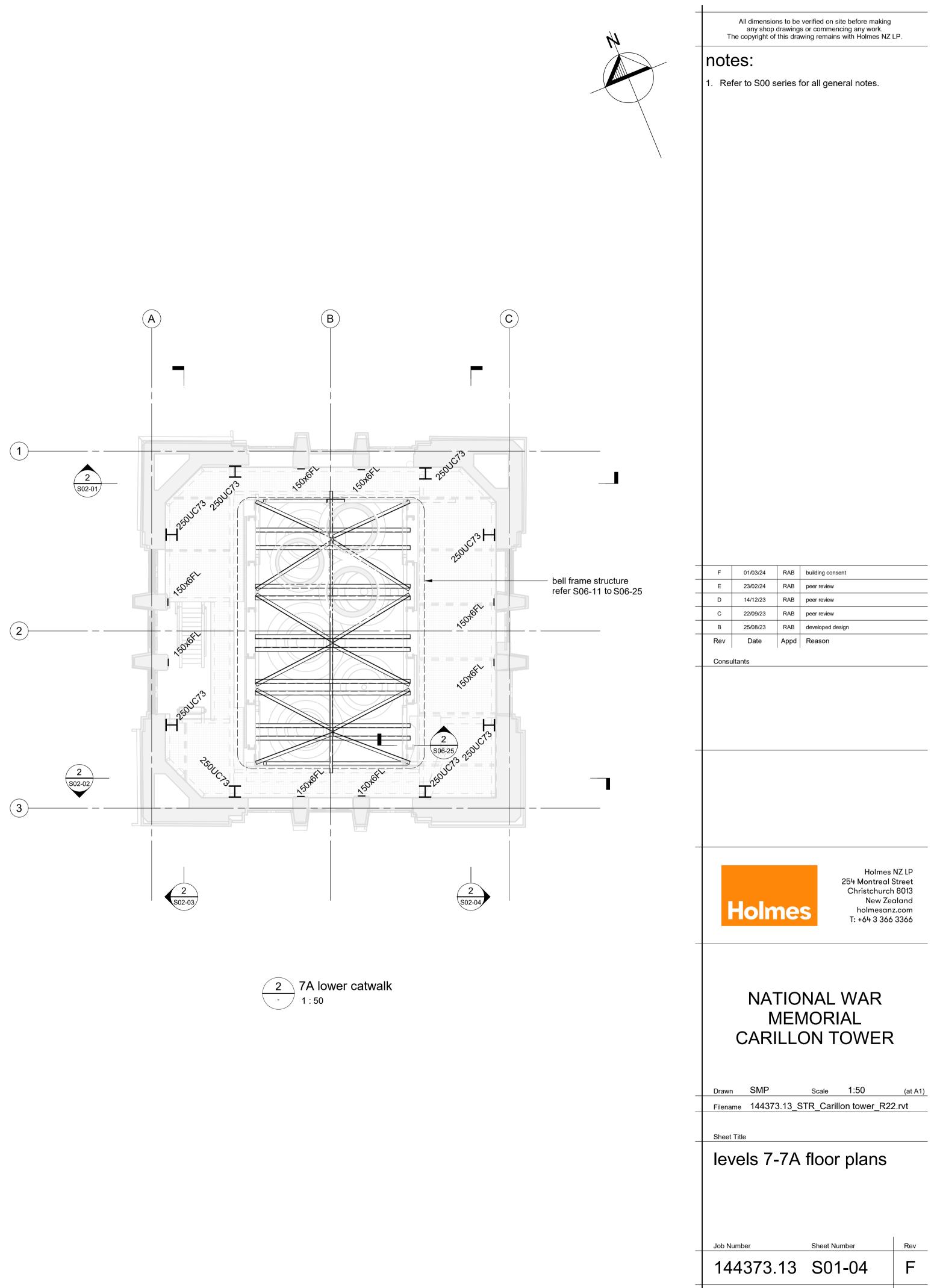
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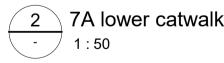
levels 5B-6 floor plans

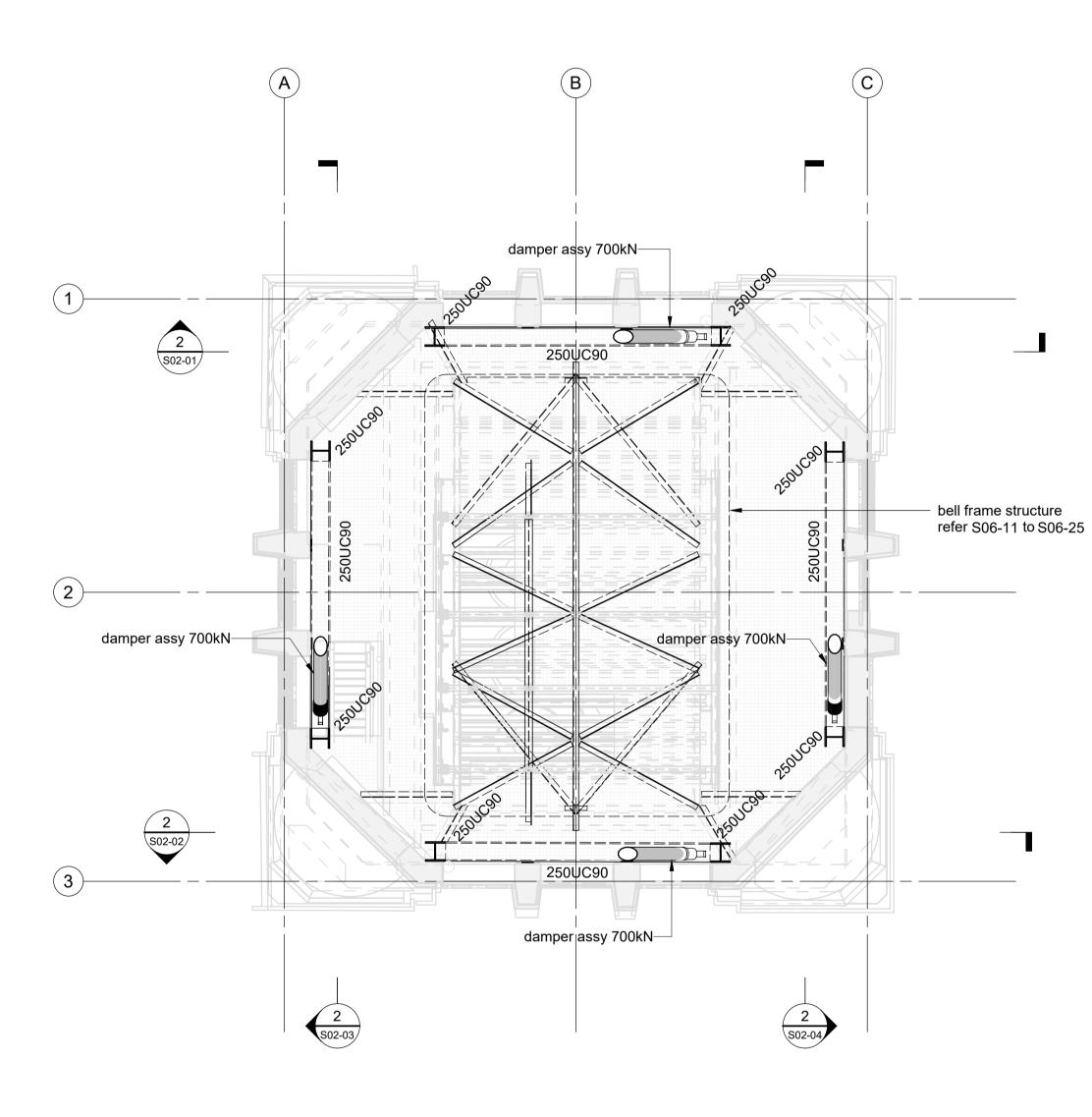
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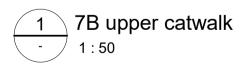


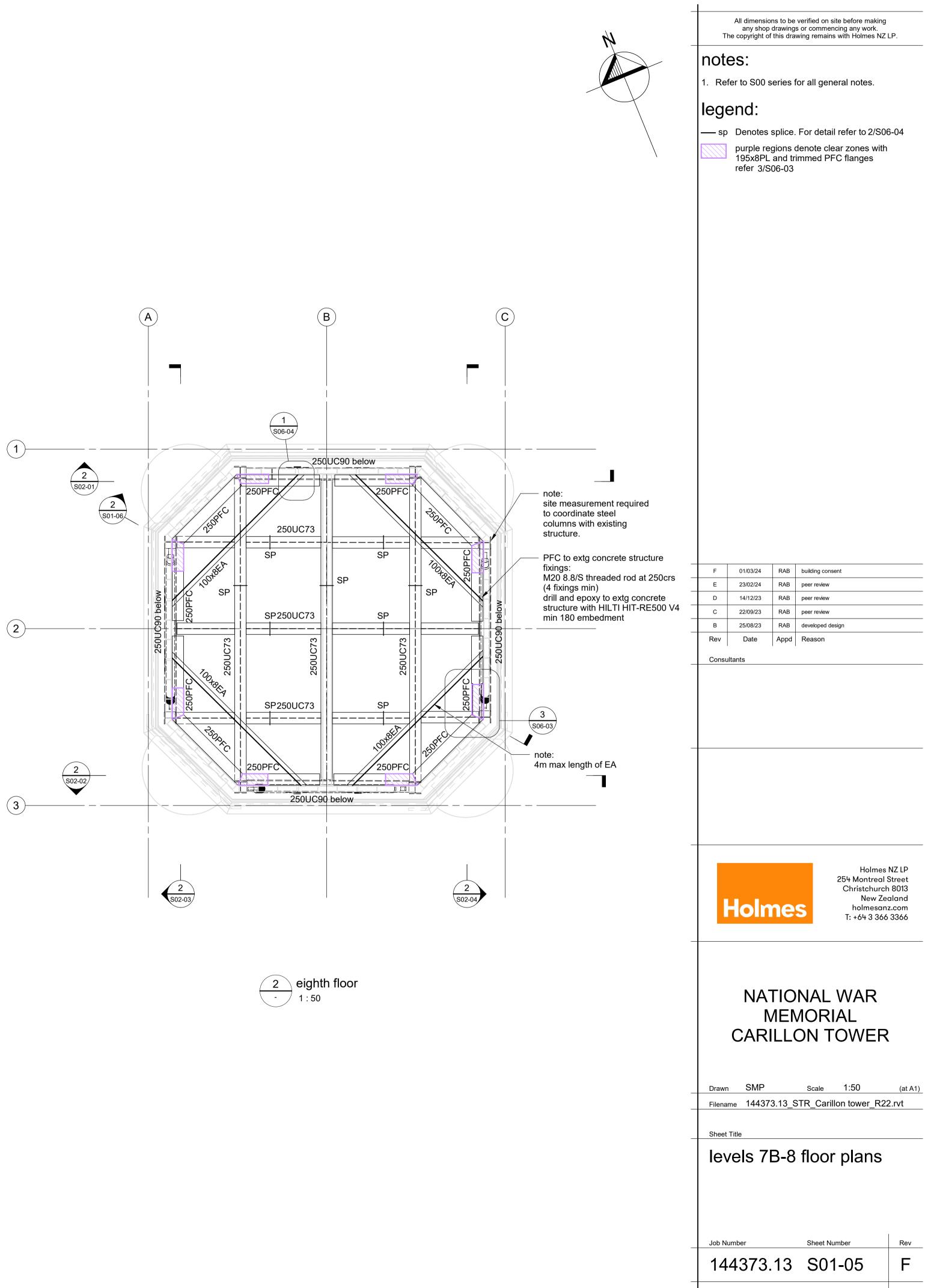




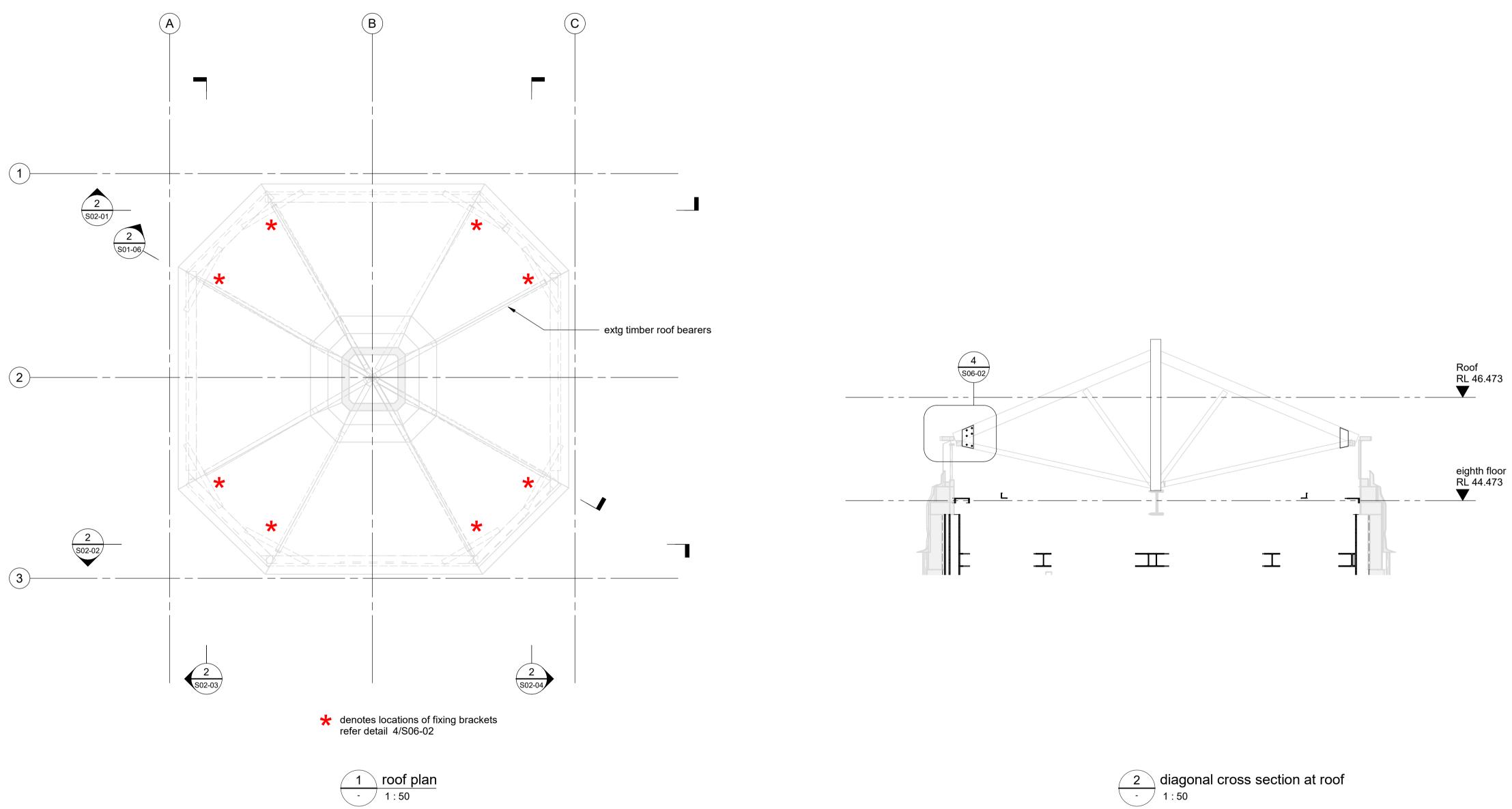












2 diagonal cross section at roof - 1:50

1. Refer to S00 series for all general notes.

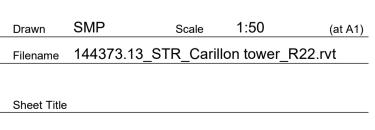
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NATIONAL WAR MEMORIAL CARILLON TOWER

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Sheet Number

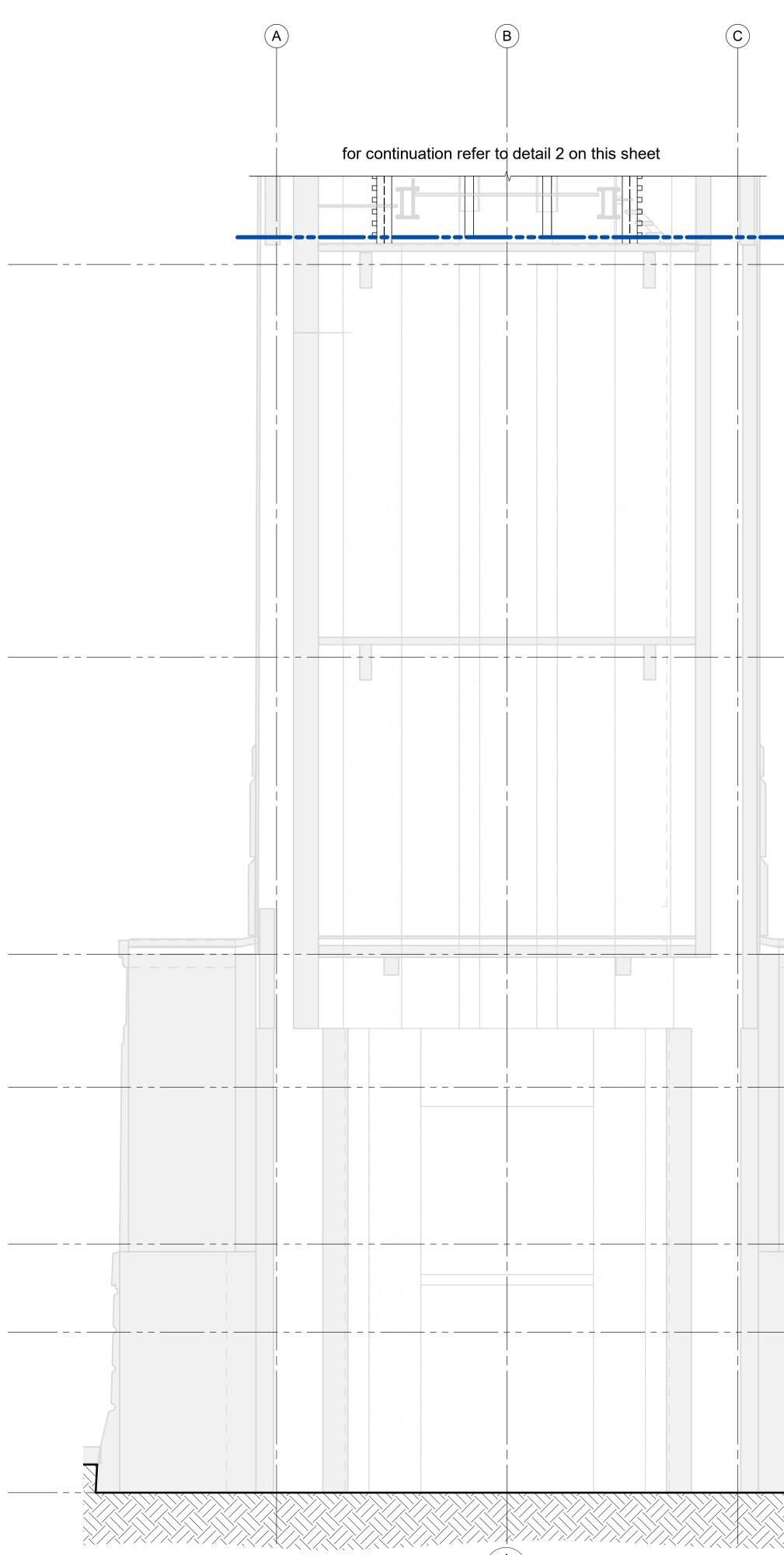
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Rev

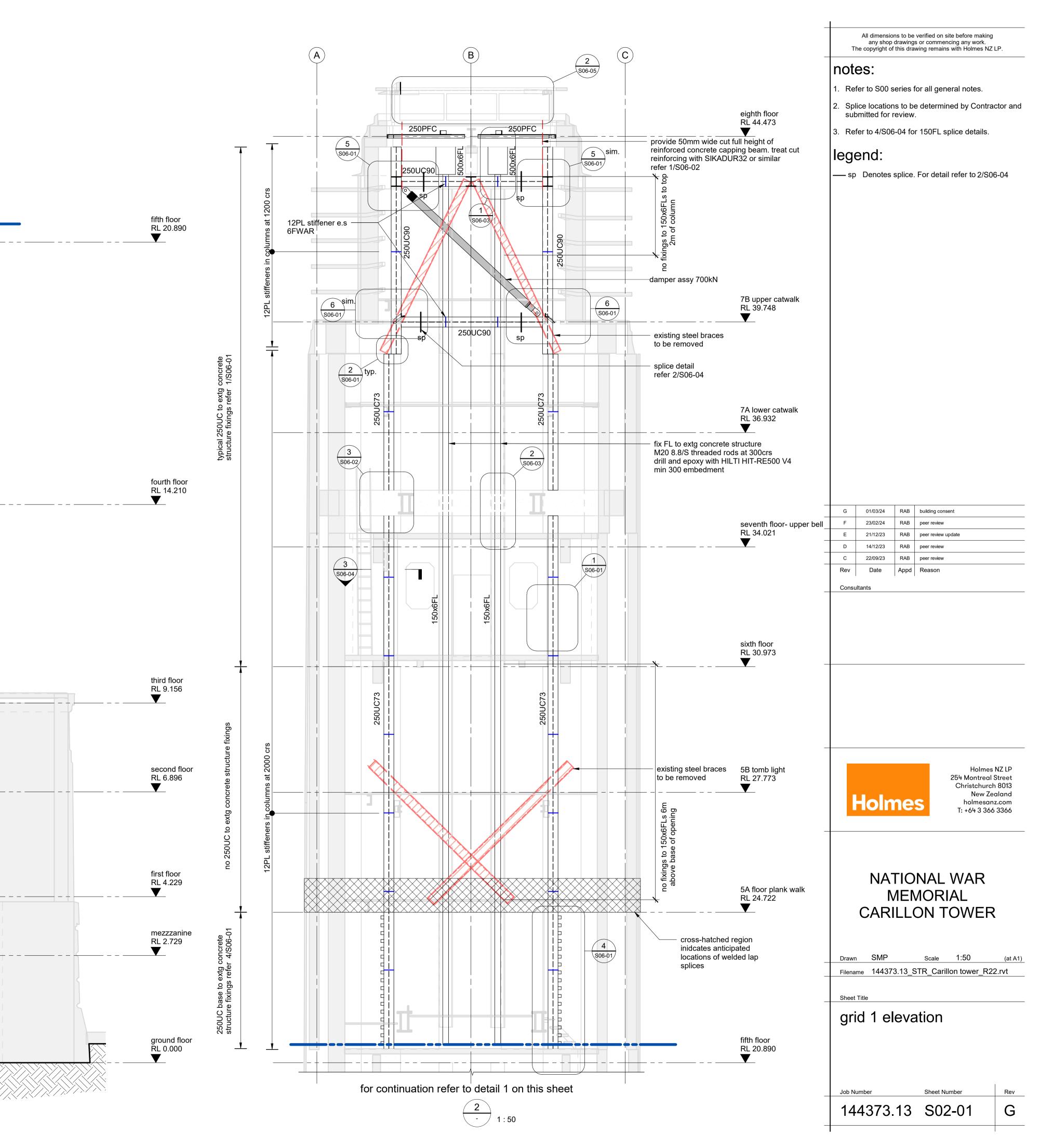
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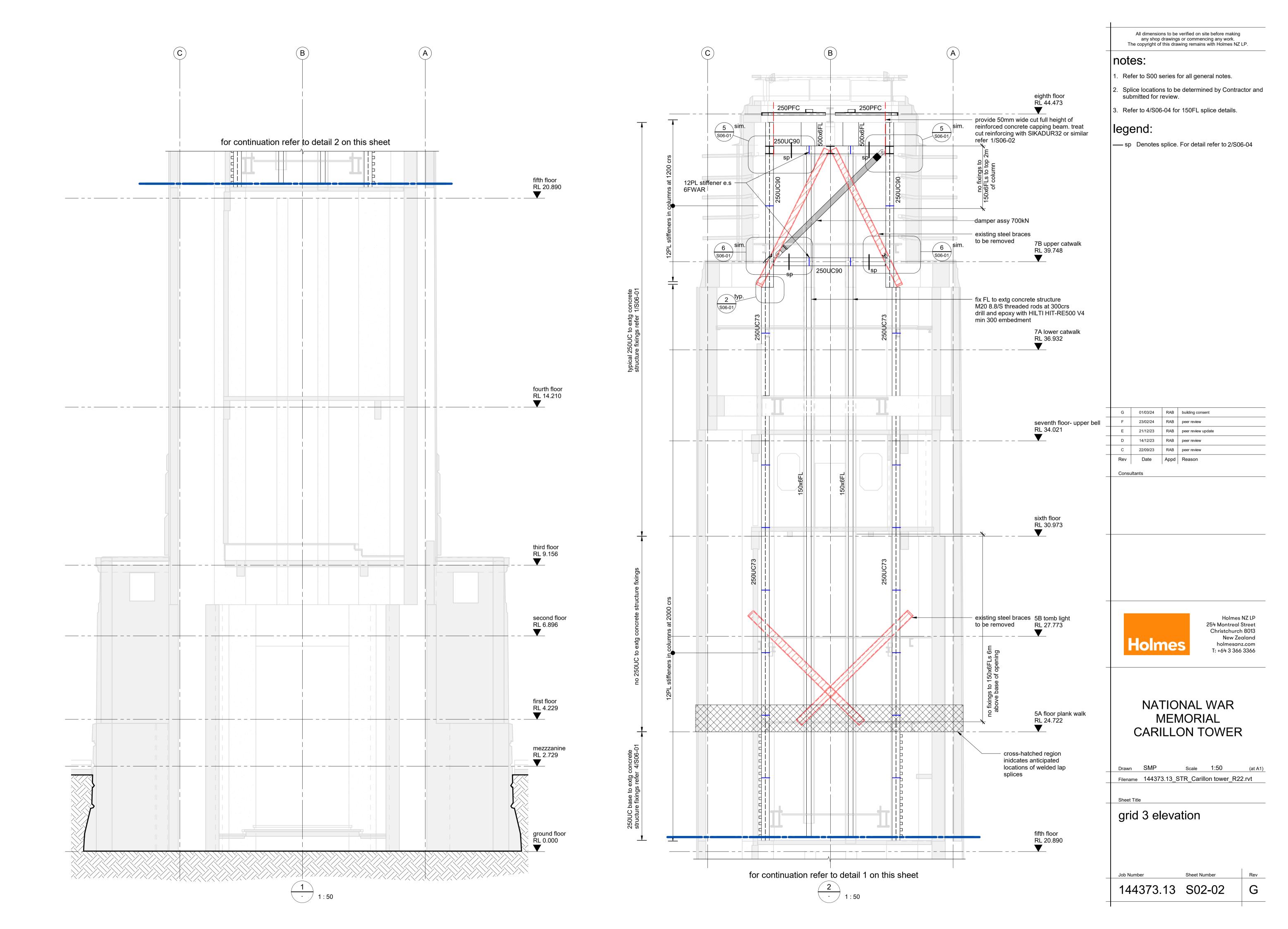
roof plan

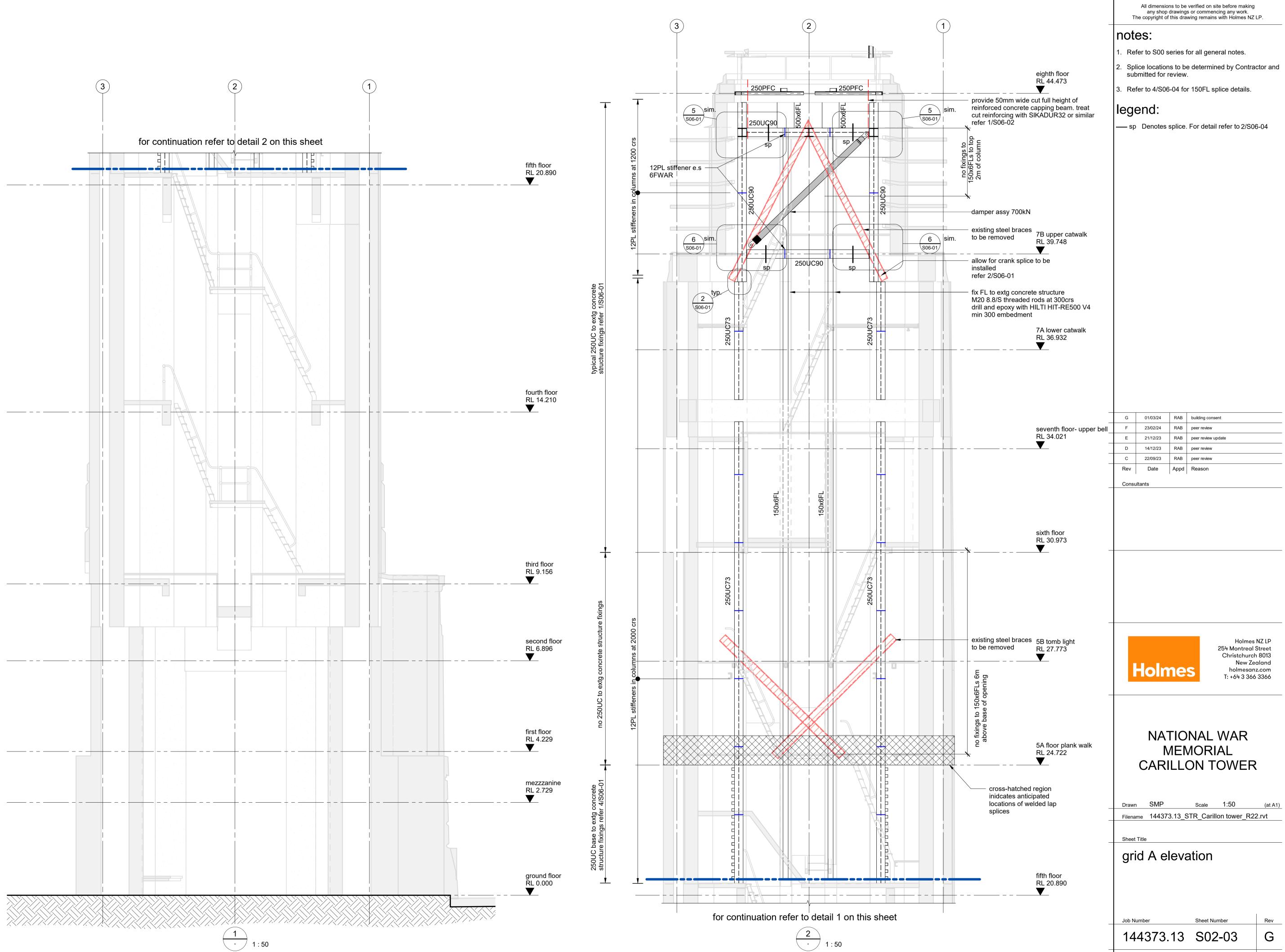
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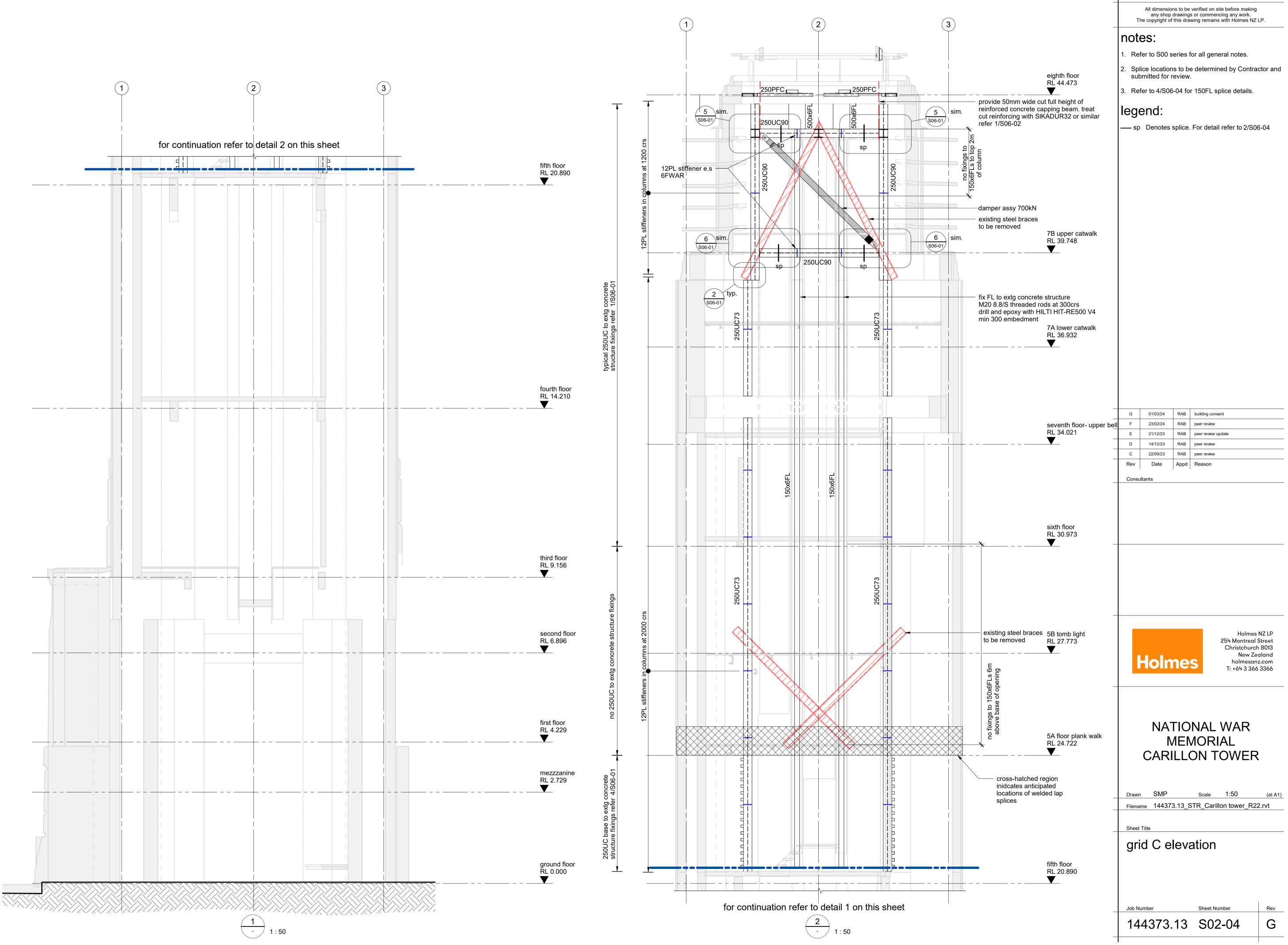
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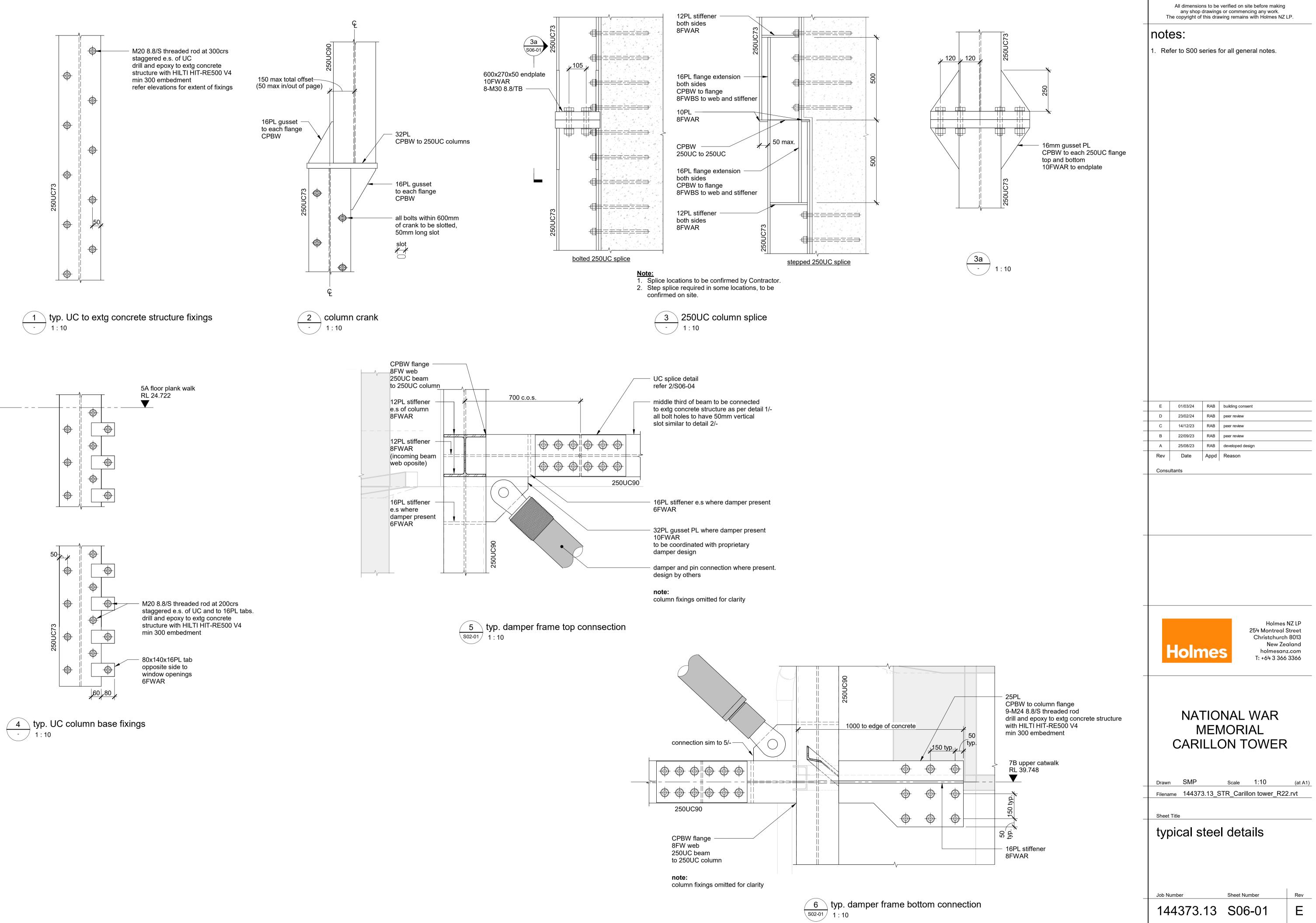


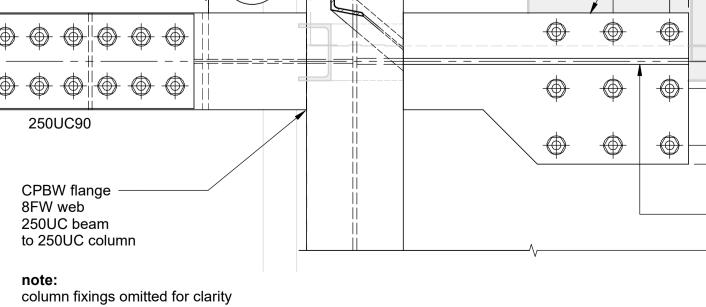


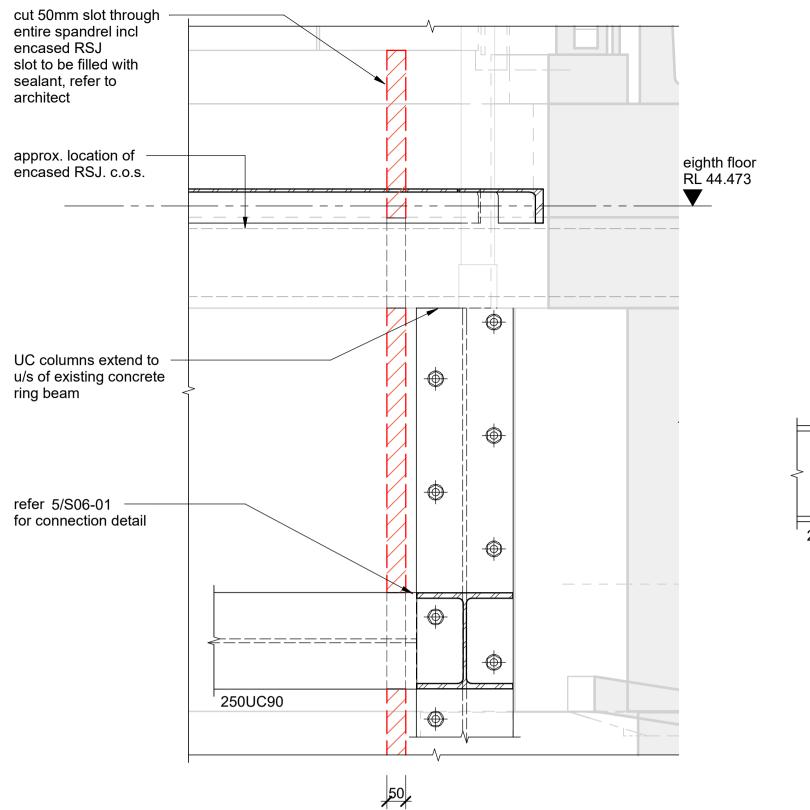


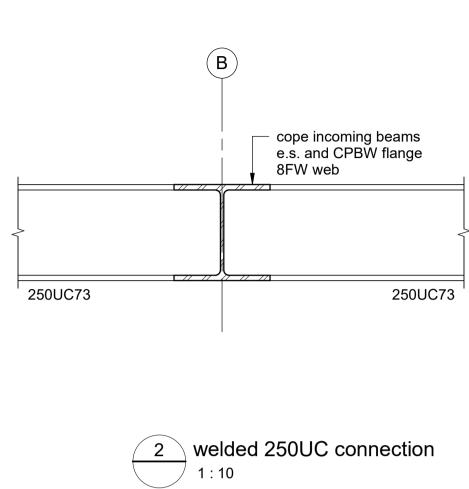
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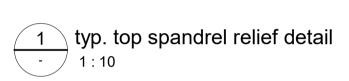


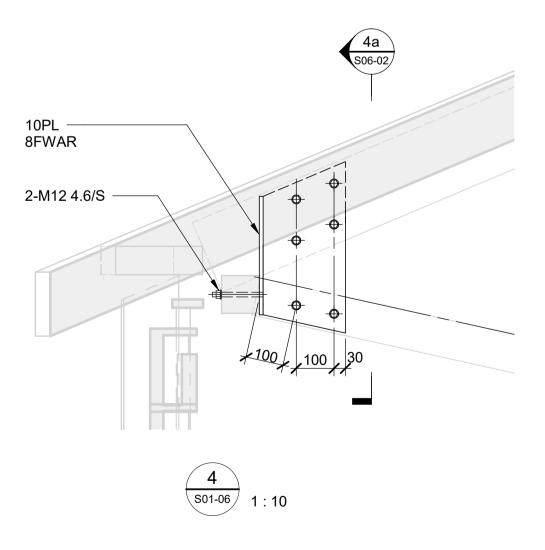


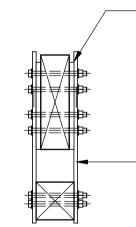


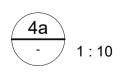


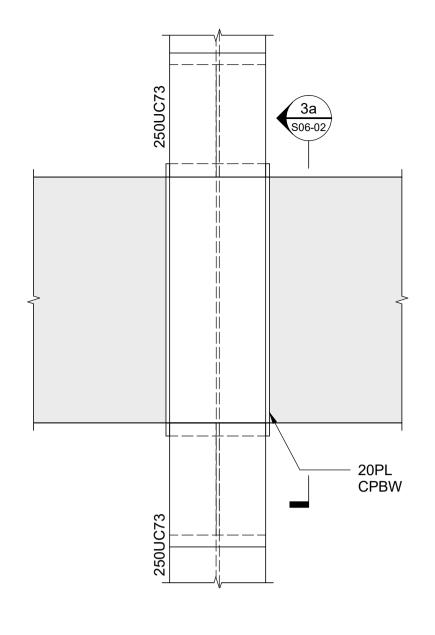








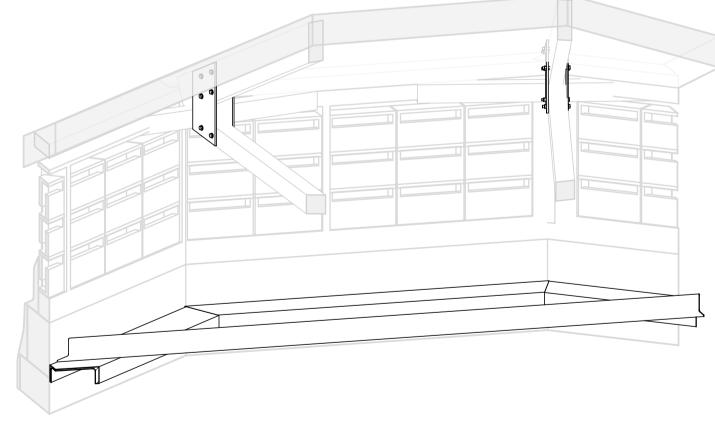


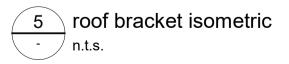


 $\begin{array}{c} \hline 3 \\ \hline 802-01 \\ 1:10 \end{array}$ level 7 UC column splice and fixing

steel shim to suit e.s.

10PL e.s. of timber members. 6-M12 4.6/S





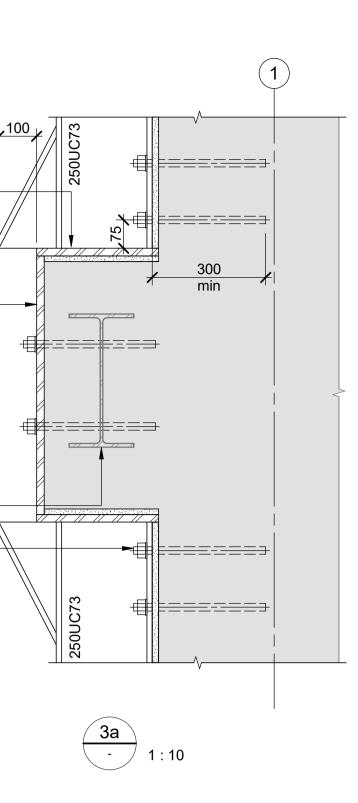
20mm end PL -CPBW flange, 8FW web to 250UC typ. top and bottom 15mm non-shrink high-strength grout pack full contact bearing

20mm face PL CPBW to end PL's 4-M20 8.8/S drill and epoxy into ring beam core drill and roughen hole

fabricated T section 16mm flange 8mm web CPBW to 250UC flange 8FW to 20mm face and end PL

extg. concrete encased RSJ

M20 8.8/S threaded rod in 50mm vert. slotted holes at 300crs staggered e.s. of UC drill and epoxy to extg concrete structure with HILTI HIT-RE500 V4 min 300 embedment



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notes:

1. Refer to S00 series for all general notes.

Е	01/03/24	RAB	building consent
D	23/02/24	RAB	peer review
С	14/12/23	RAB	peer review
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А	25/08/23	RAB	developed design
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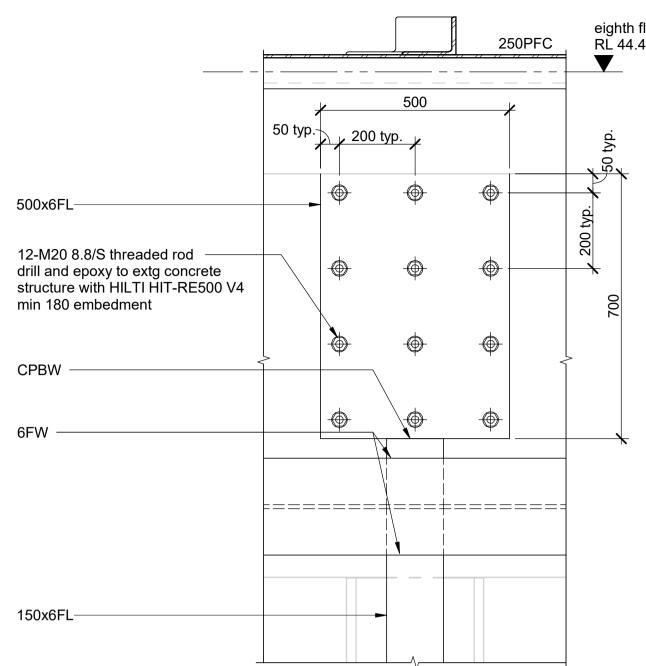
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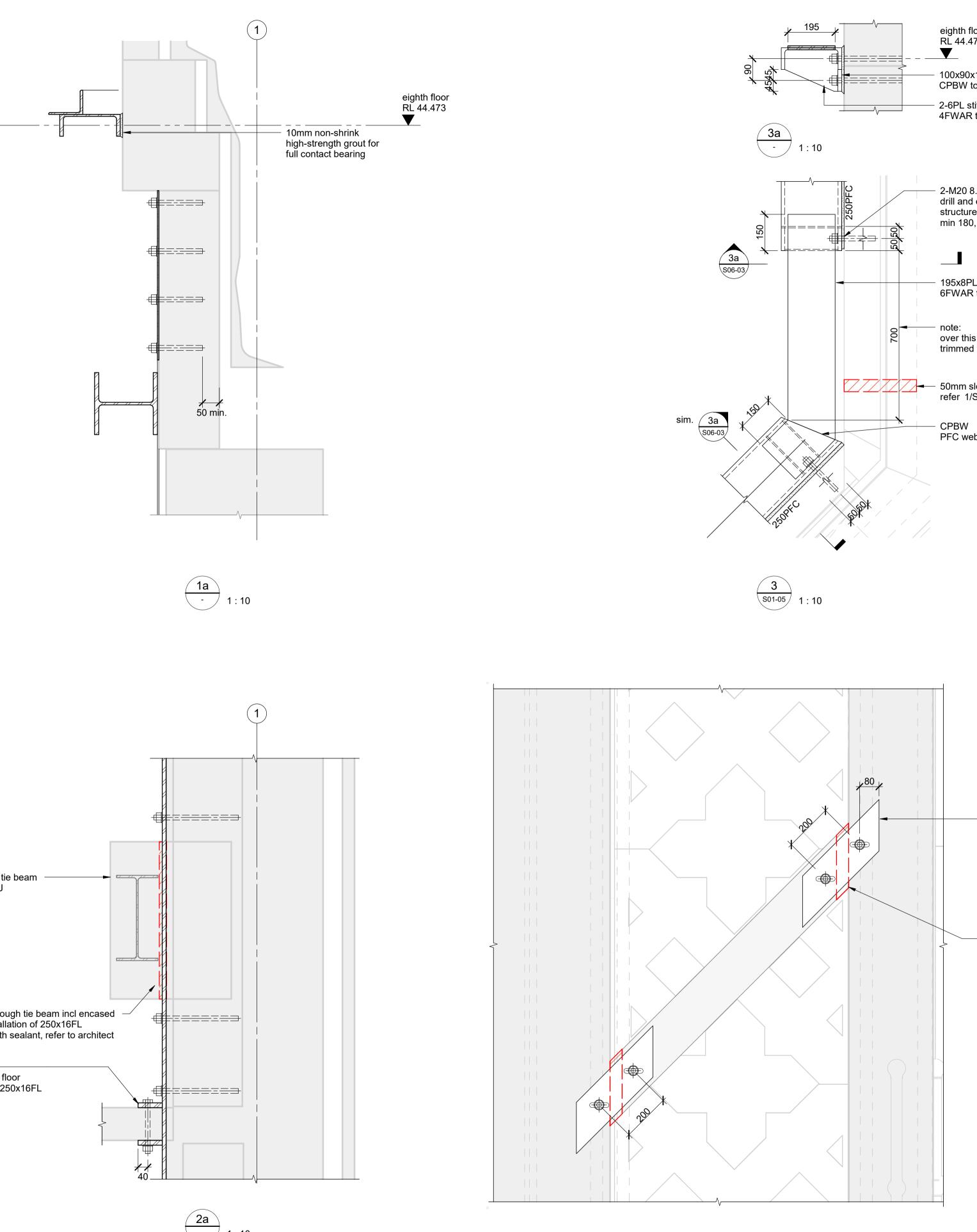
Sheet Title

steel details

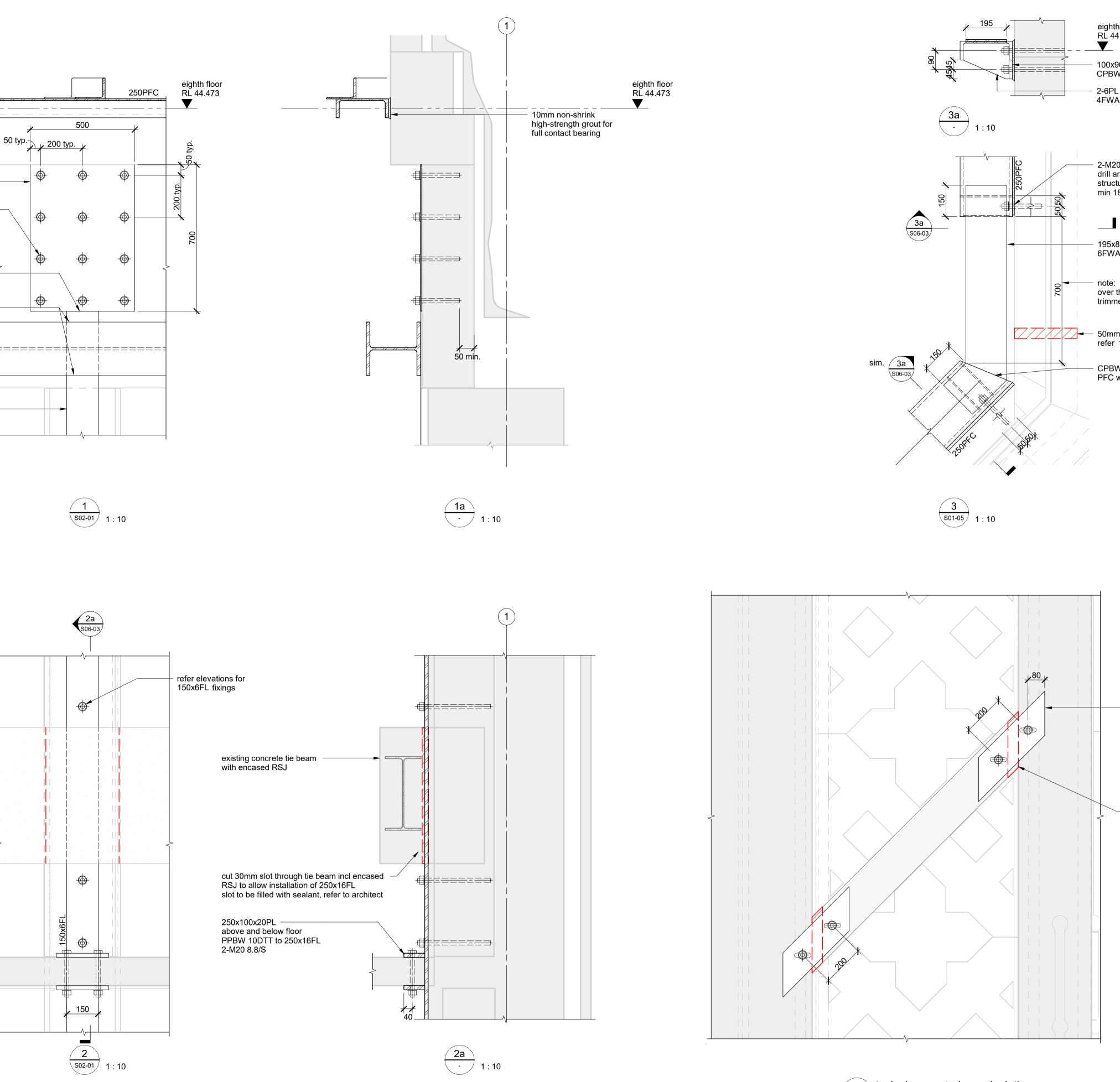
Holmes

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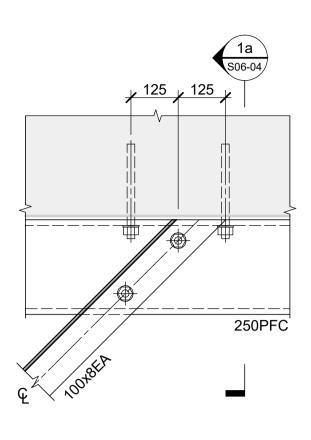






4 typical concrete brace isolation - 1:10

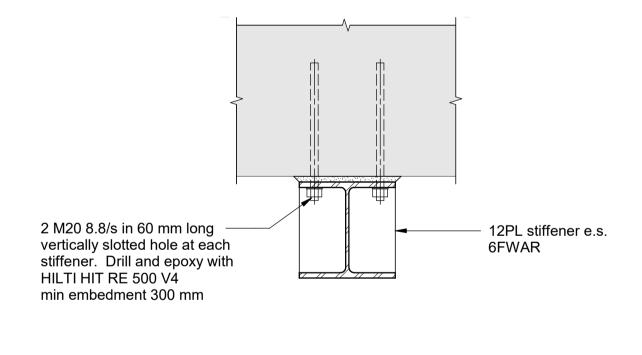
	1
	All dimensions to be verified on site before making any shop drawings or commencing any work. The copyright of this drawing remains with Holmes NZ LP.
loor 73	
	notes:
k16PL to PFC flange	1. Refer to S00 series for all general notes.
tiffener to PFC and 16PL	
3.8/S threaded rods	
e with HILTI HIT-RE500 V4	
), embedment	
L	
to both PFCs	
s length PFC to be	
to 195mm width	
lot in exta PC beam	
slot in extg. RC beam S06-02	
b to PFC web	
-	
-	D 01/03/24 RAB building consent C 23/02/24 RAB peer review
-	B 14/12/23 RAB peer review
-	A 22/09/23 RAB peer review Rev Date Appd Reason
-	Consultants
-	
— 150x16PL	
M20 8.8/S threaded rod in 60mm horizontal slotted holes	
drill and epoxy to extg concrete structure with HILTI HIT-RE500 V4	
min 150 embedment	
	Holmes NZ LP
— 50mm wide cut to concrete braces	254 Montreal Street Christchurch 8013 New Zealand
treat cut reinforcing with SIKADUR32 or similar	Holmes holmesanz.com T: +64 3 366 3366
-	
	MEMORIAL CARILLON TOWER
-	Drawn SMP Scale 1:10 (at A1 Filename 144373.13_STR_Carillon tower_R22.rvt
-	
-	Sheet Title
	steel details
-	Job Number Sheet Number Rev
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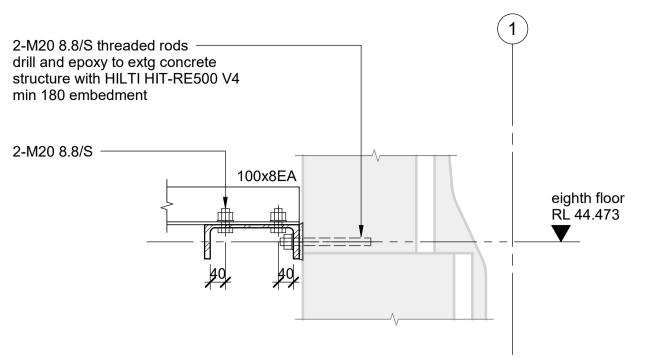
1 S01-05 1:10

2-M20 8.8/S threaded rods -

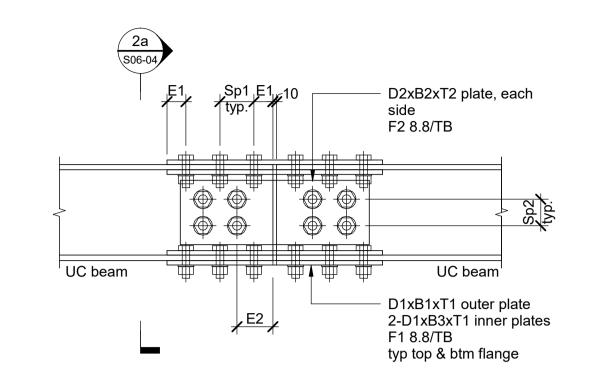
2-M20 8.8/S



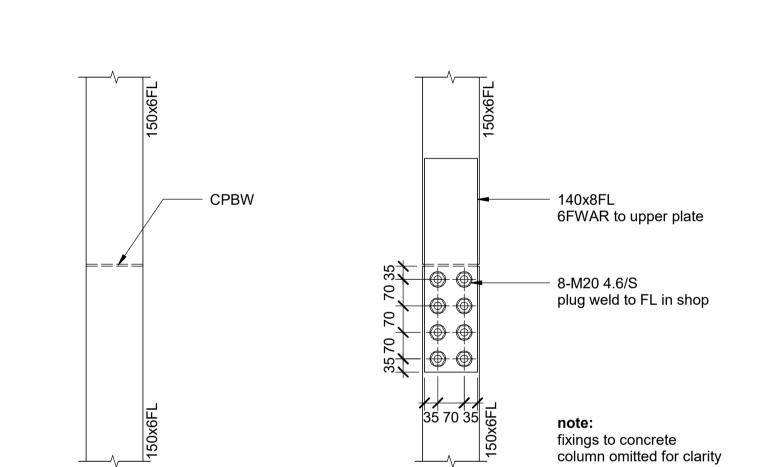




1a - 1 : 10



beam	plate						bolts				
	location	length	wi	dth	thk	no, size	gauge	pitch	edge		
	flange	D1	B1	B3	T1	F1	Sg1	Sp1	E1		
	web	D2	B2		T2	F2		Sp2	E2		
250UC73	flange	570	200	75	12	12-M20	110	90	50		
	web	370	140		8	8-M20		70	50		
250UC90	flange	570	250	100	16	12-M30	130	90	50		
	web	500	170		10	8-M24		90	95		

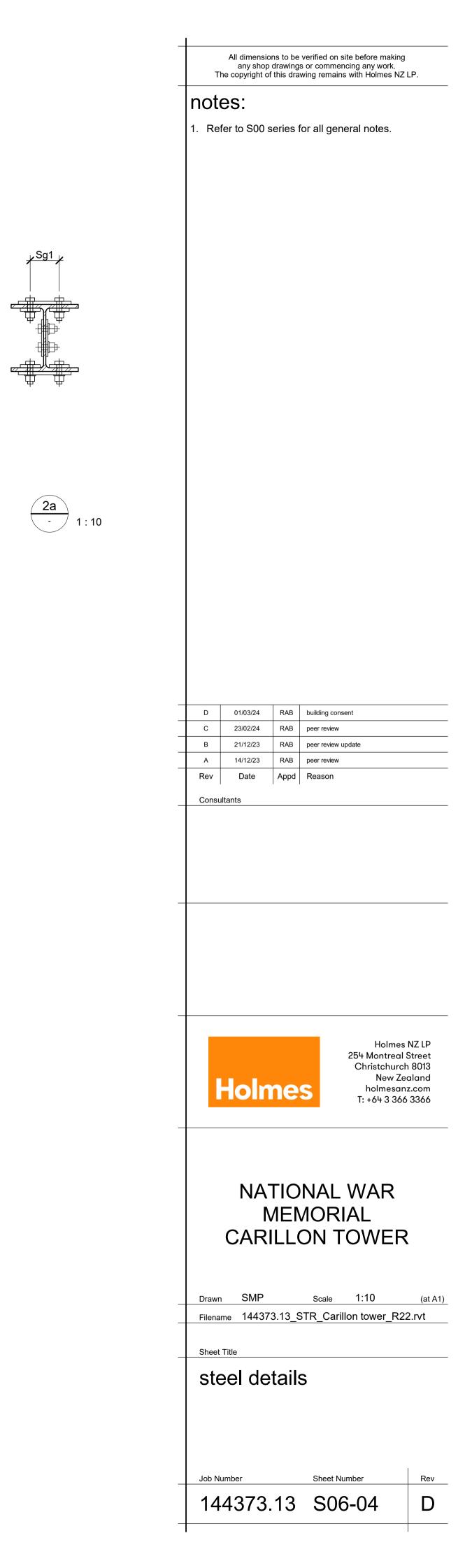


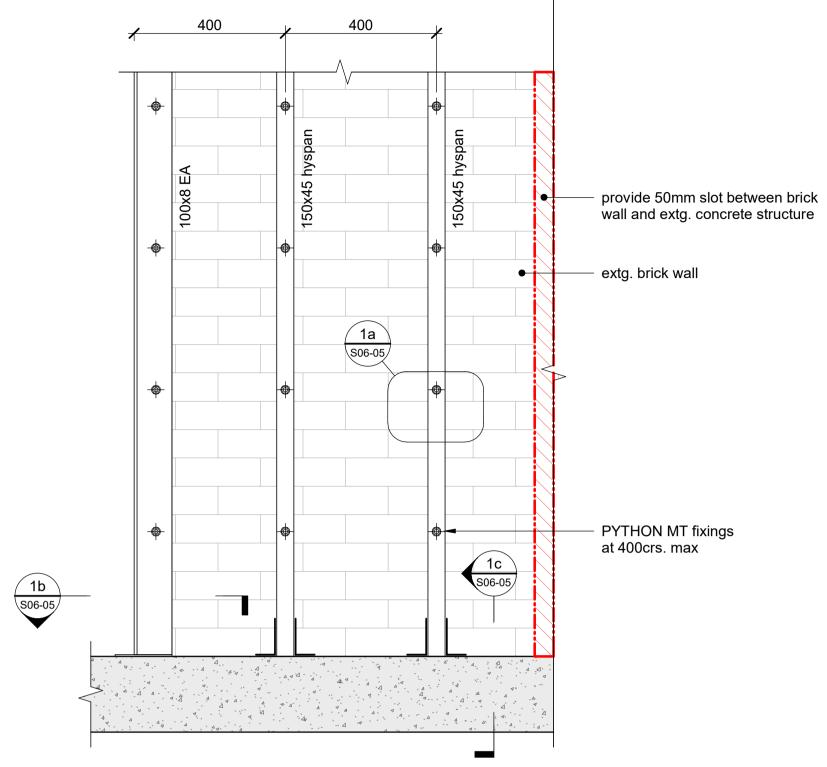
weld splice

4 150FL splice - 1 : 10

alternative bolted/weld splice

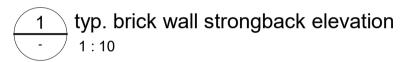
2 typical 250UC bolted beam splice

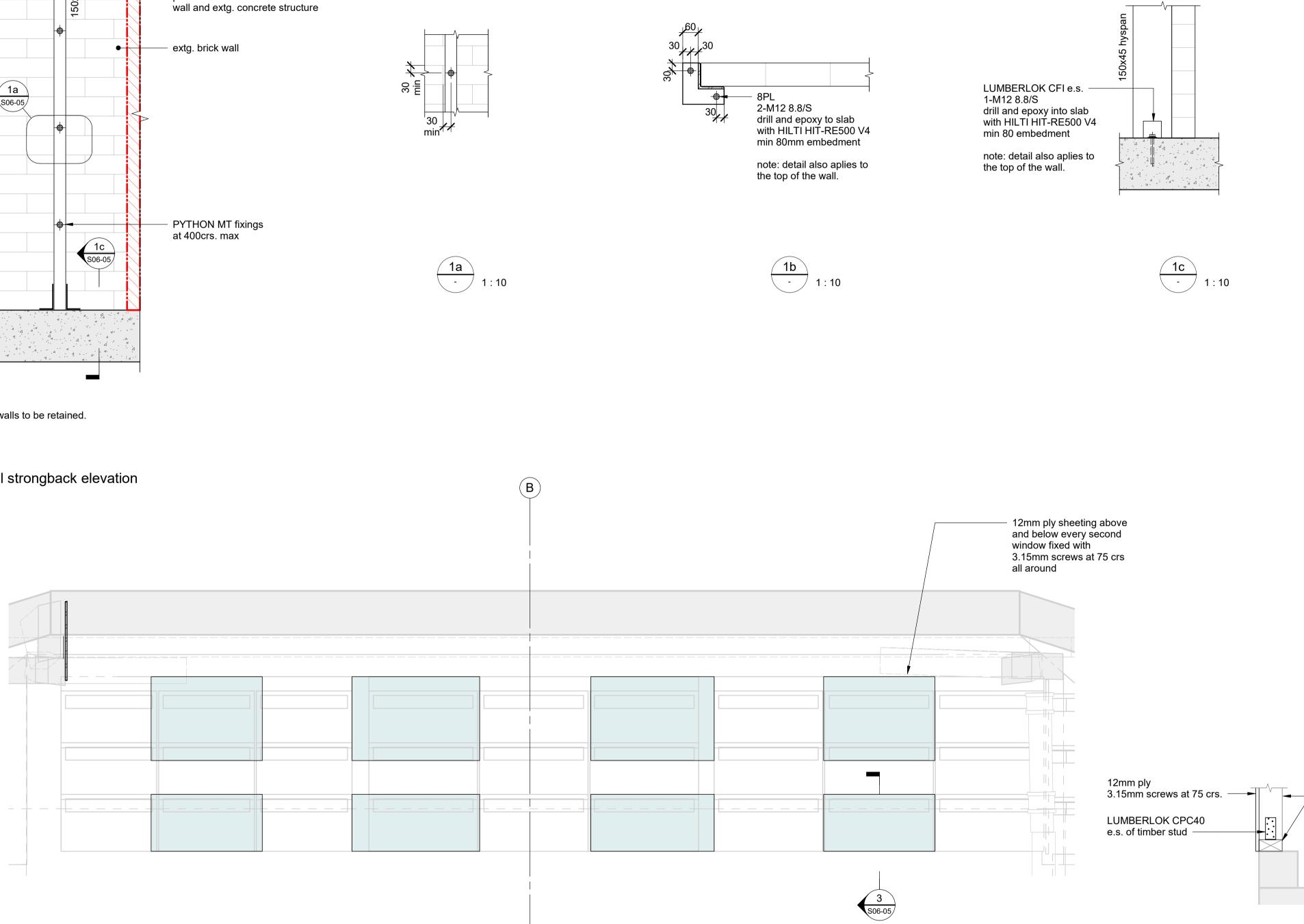


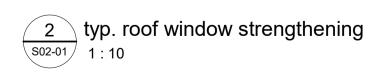


<u>Note:</u>

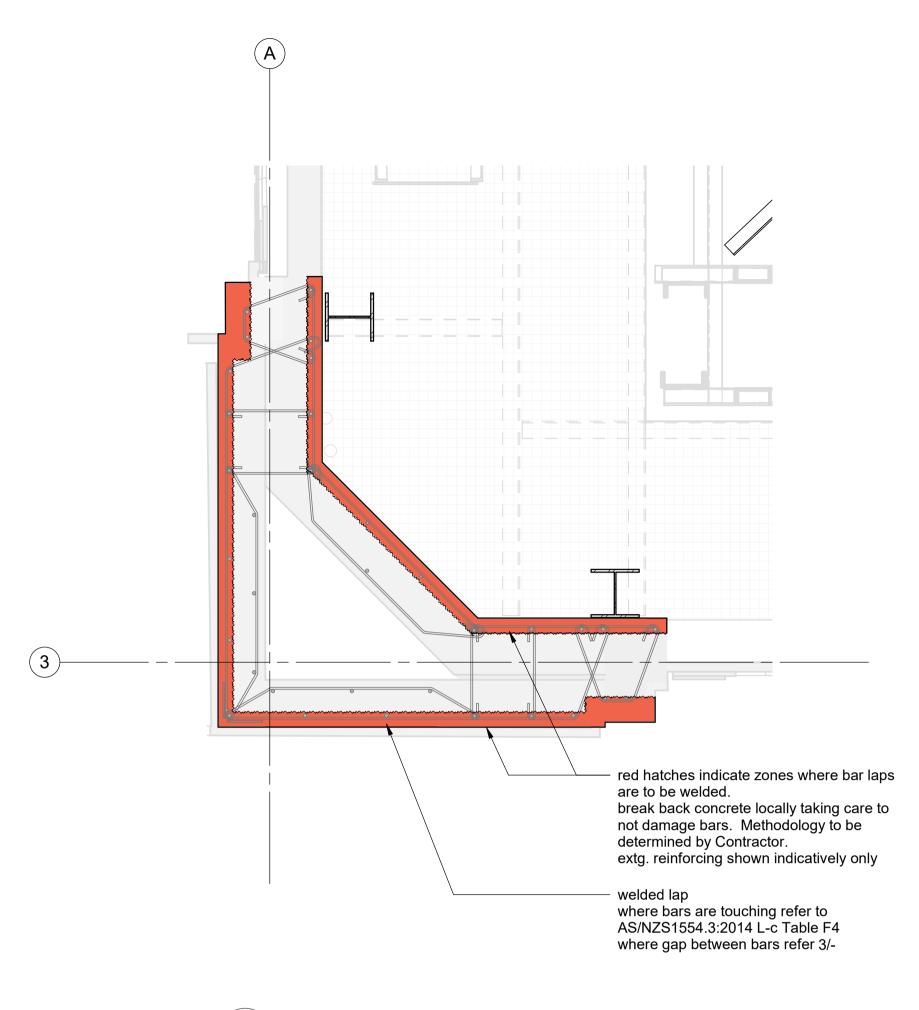
 Refer Architect for brick walls to be retained.

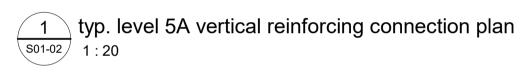


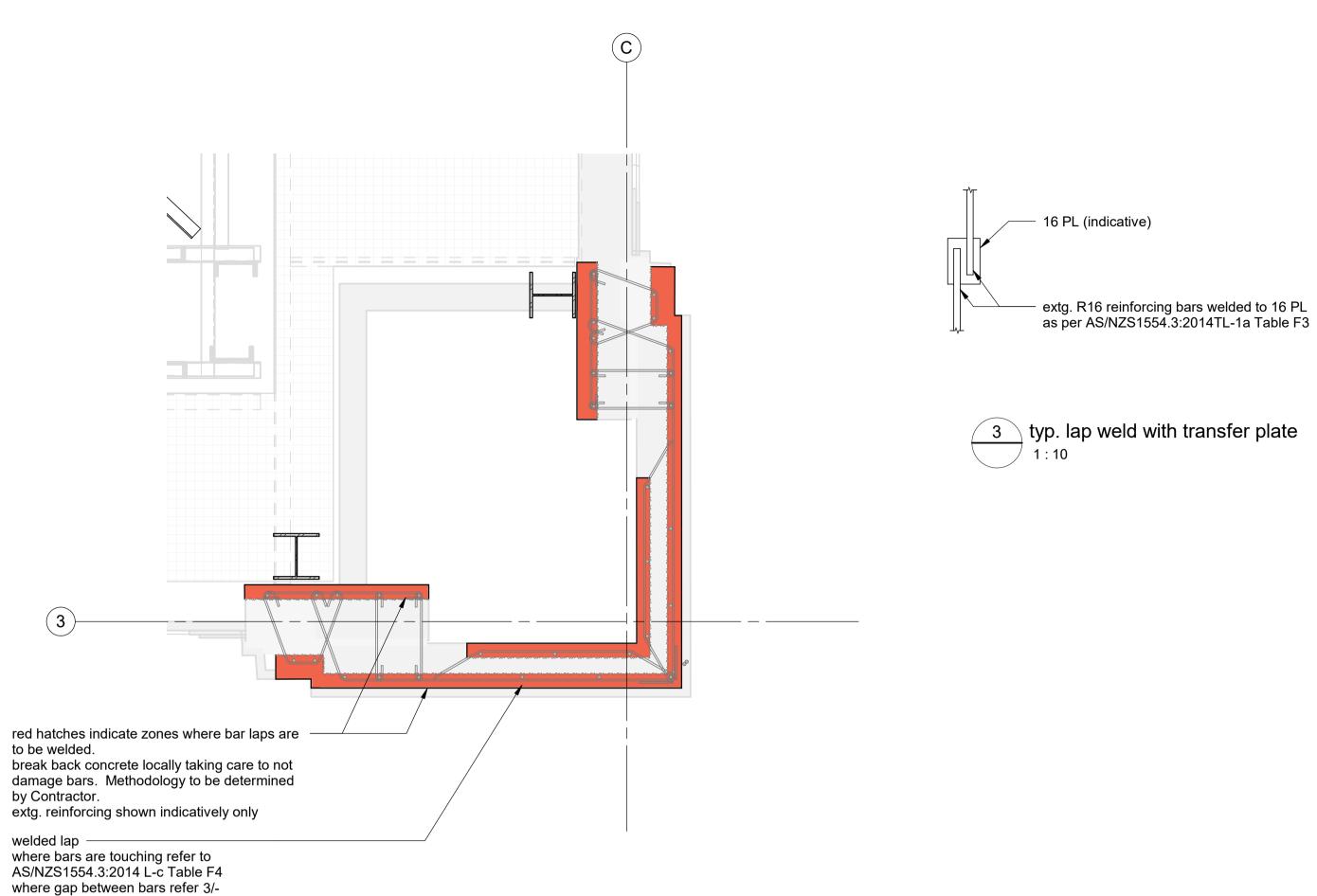




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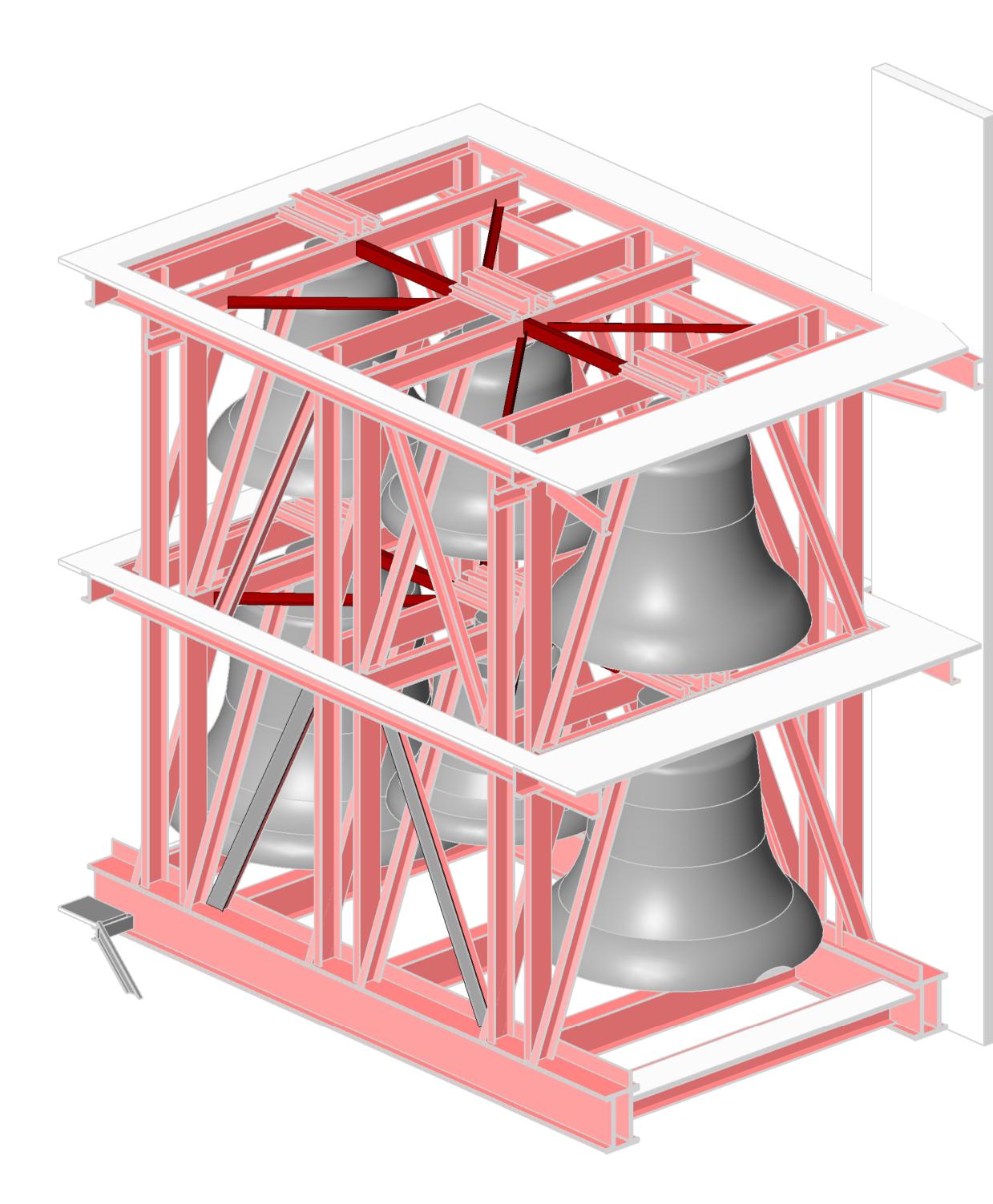


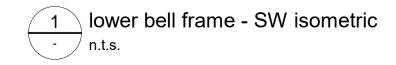


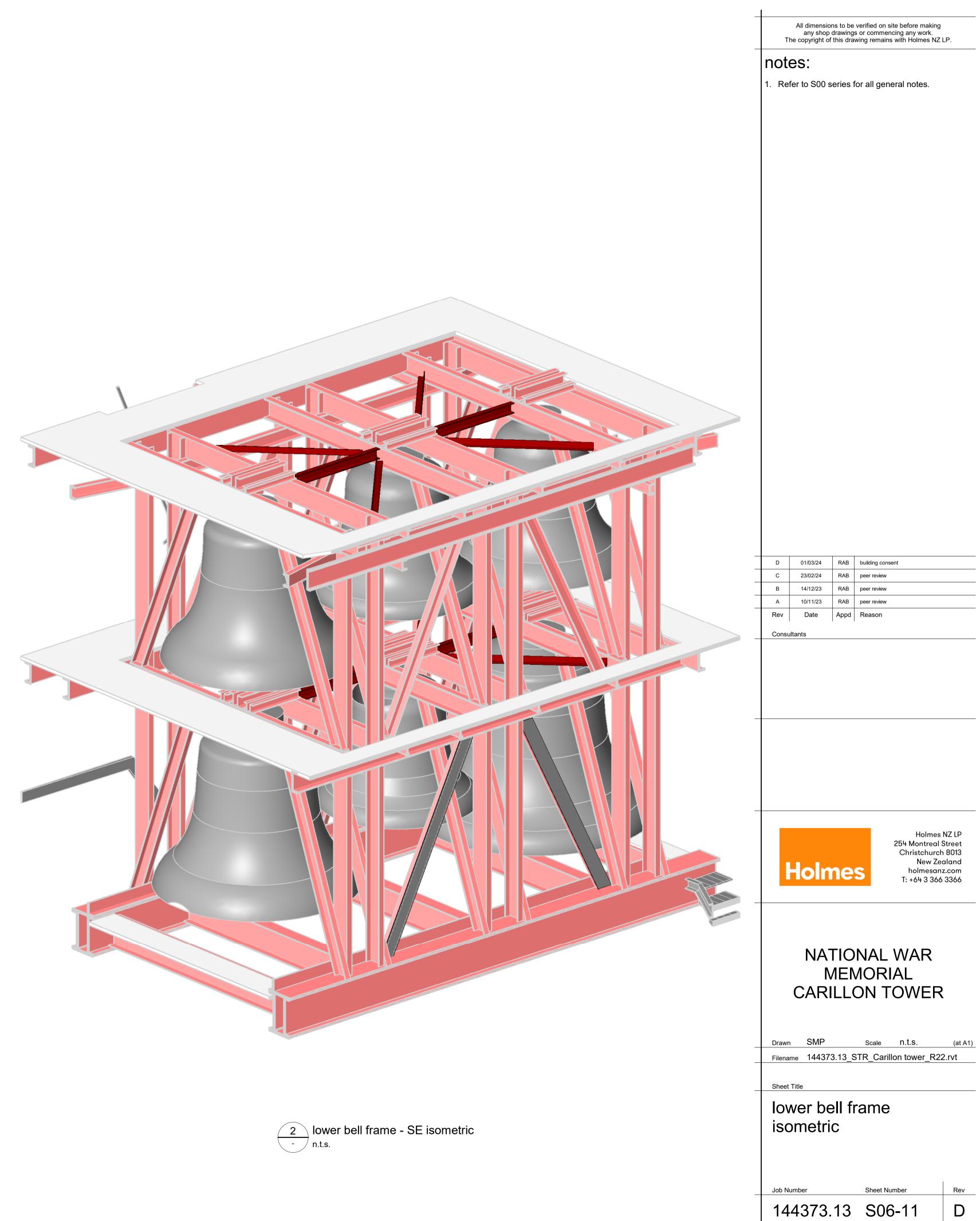


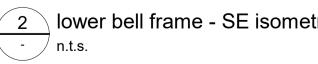
 $\begin{array}{|c|c|c|}\hline 2 \\\hline \$01-02 \\1:20 \end{array}$ level 5A vertical reinforcing connection plan - lift shaft

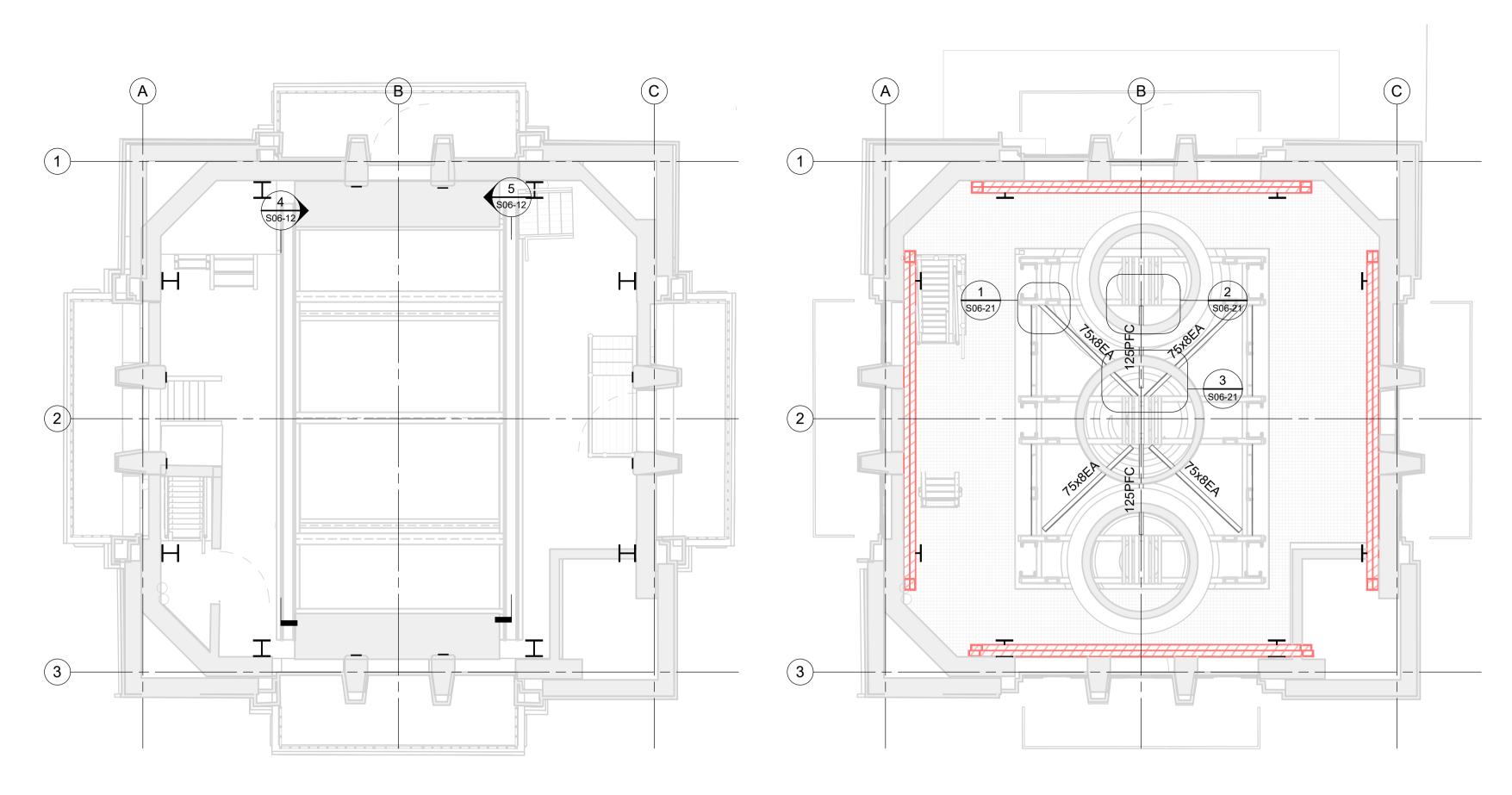
All dimensions to be verified on site before making any shop drawings or commencing any work. The copyright of this drawing remains with Holmes NZ LP. notes: 1. Refer to S00 series for all general notes. B 01/03/24 RAB building consent 23/02/24 RAB peer review А Rev Date Appd Reason Consultants Holmes NZ LP 254 Montreal Street Christchurch 8013 New Zealand Holmes holmesanz.com T: +64 3 366 3366 NATIONAL WAR MEMORIAL CARILLON TOWER Drawn SMP Scale 1:10, 1:20 (at A1) Filename 144373.13_STR_Carillon tower_R22.rvt Sheet Title additional details Job Number Rev Sheet Number 144373.13 S06-06 В

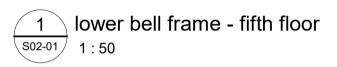


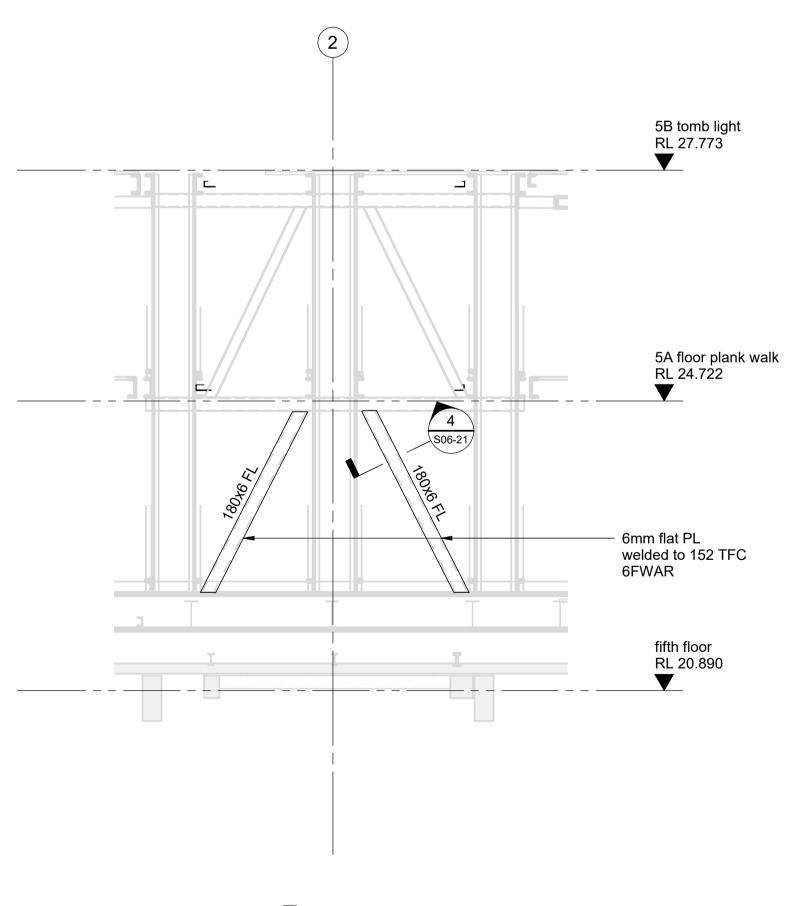




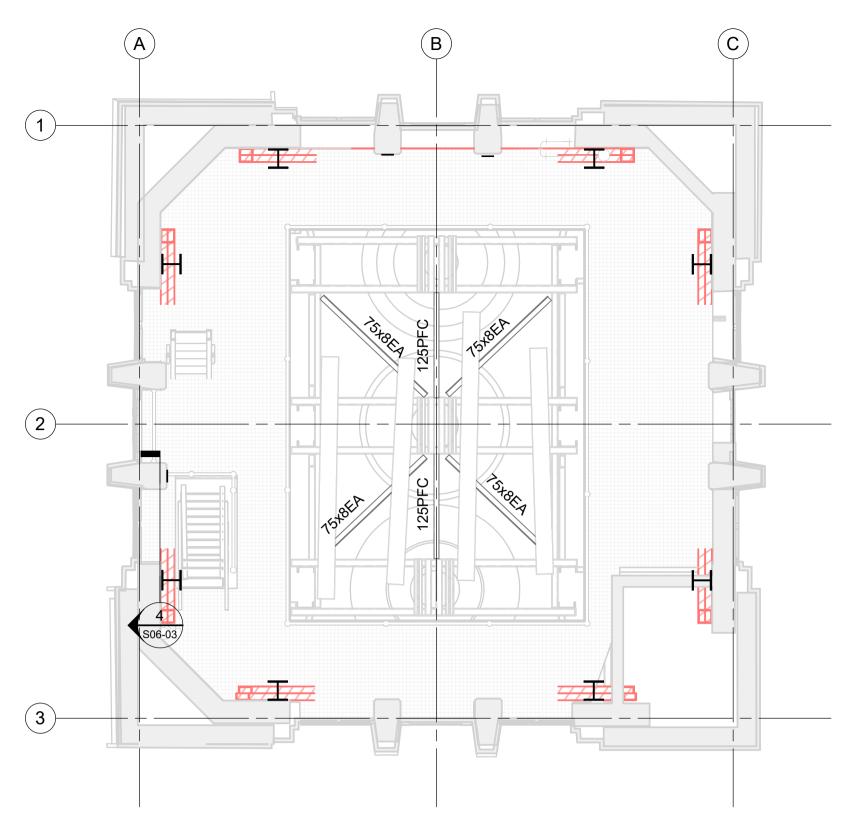




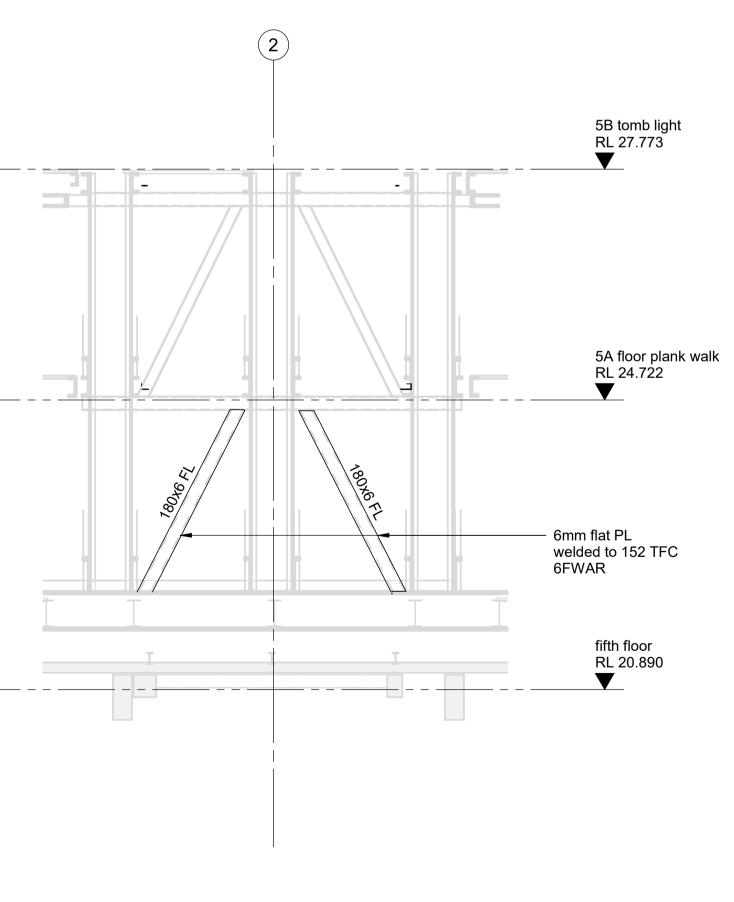


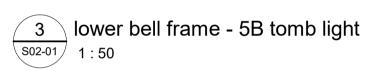


4 east elevation ^{S06-12} 1:50



2 lower bell frame - 5A floor plank walk ^{S02-01} 1:50





notes:

1. Refer to S00 series for all general notes.

D	01/03/24	RAB	building consent
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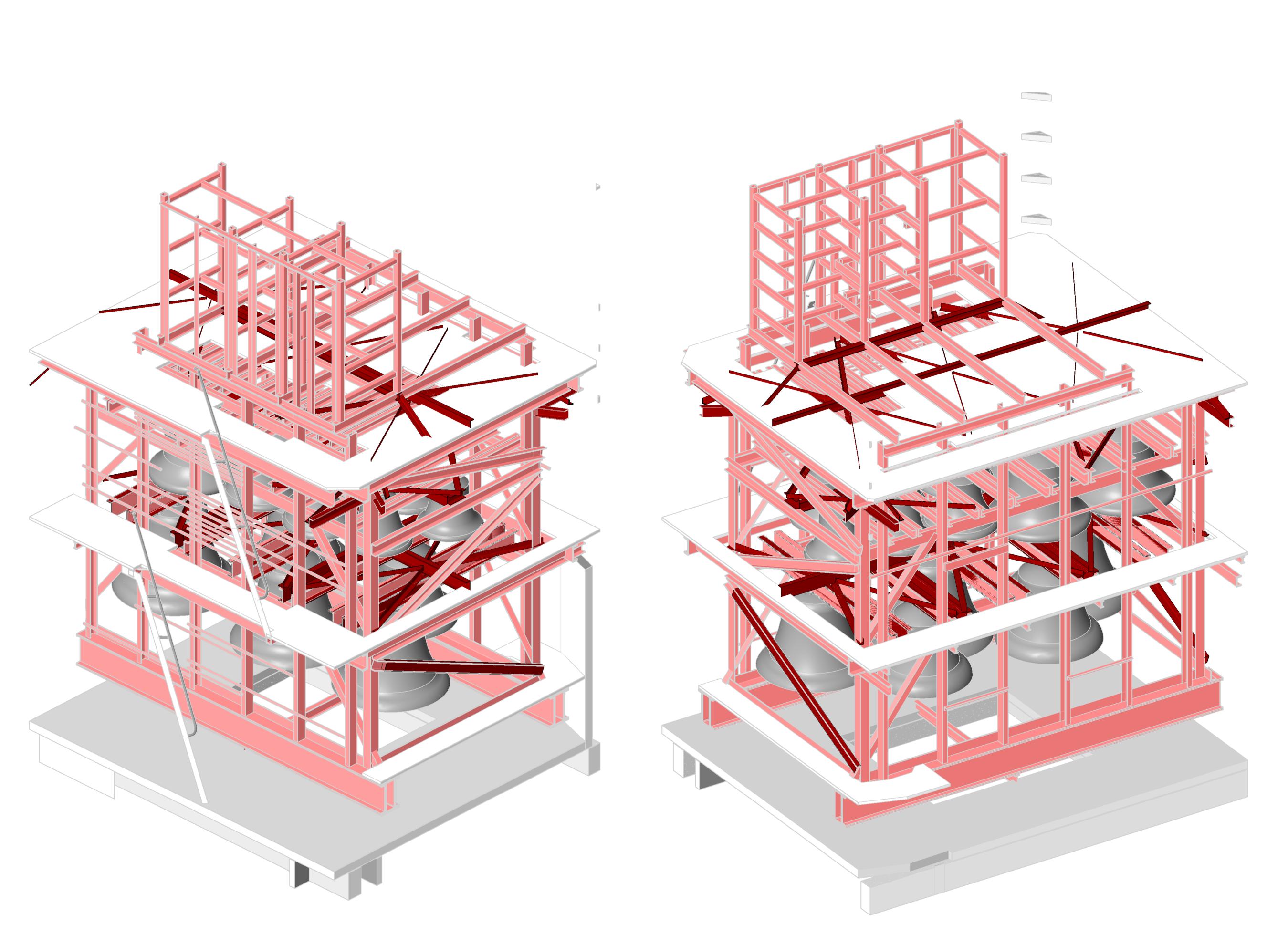
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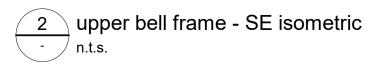
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lower bell frame plans and elevations

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144373.13	S06-12	D







notes:

1. Refer to S00 series for all general notes.

D	01/03/24	RAB	building consent
С	23/02/24	RAB	peer review
В	14/12/23	RAB	peer review
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NATIONAL WAR MEMORIAL CARILLON TOWER

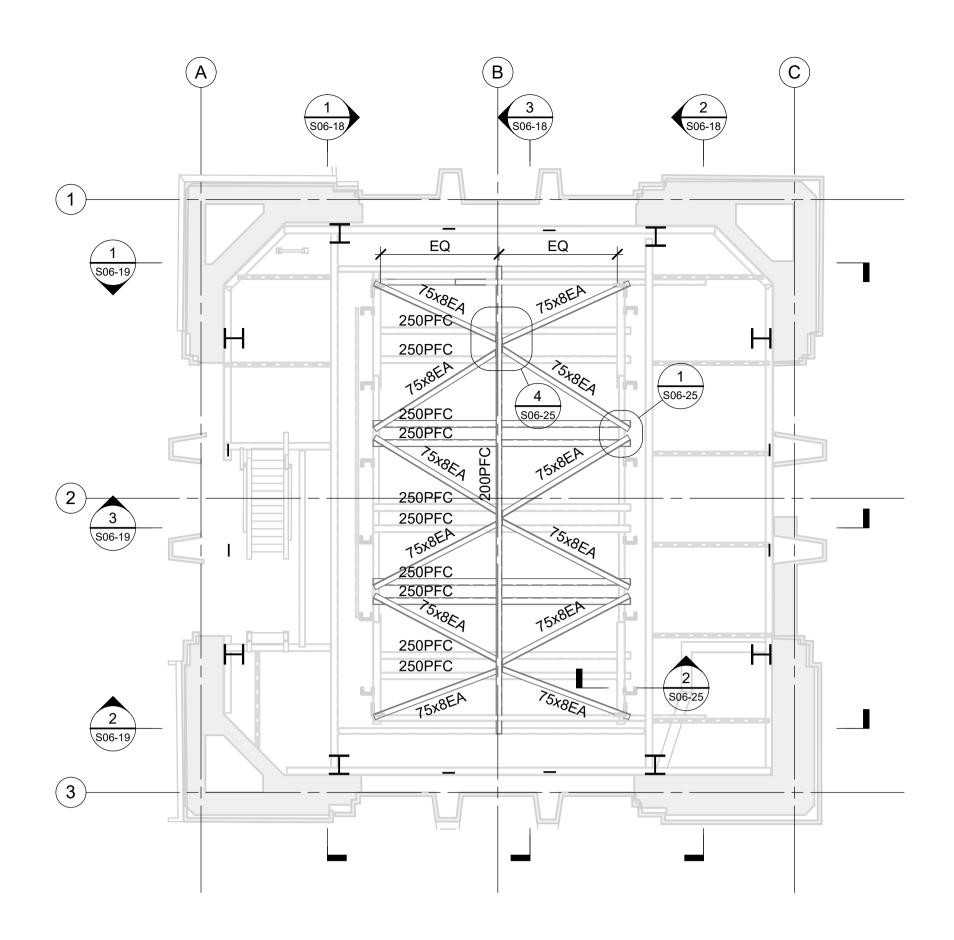
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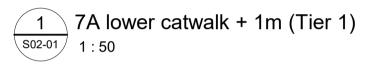
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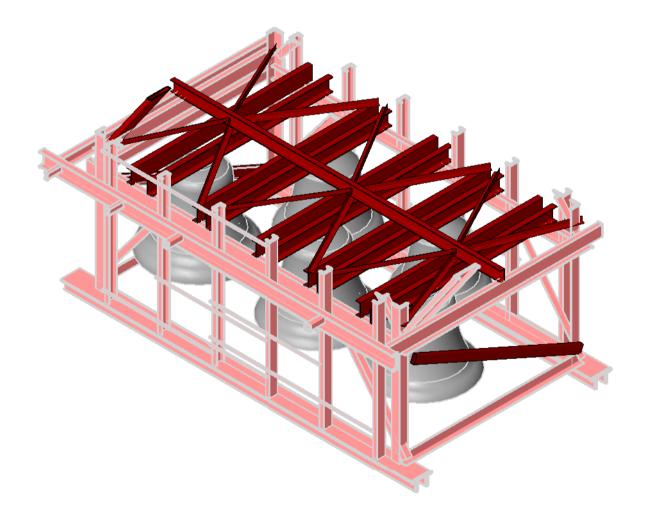
upper bell frame isometric

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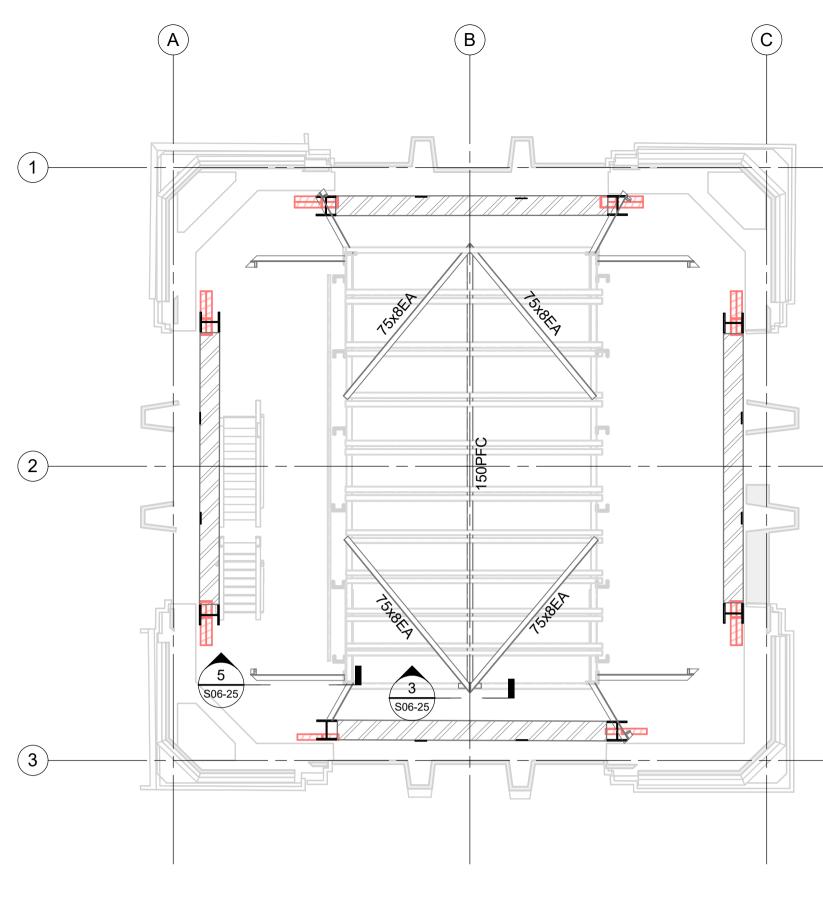
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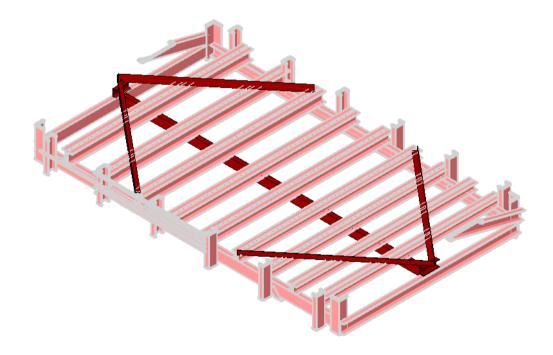


3 tier 1 - 3D view



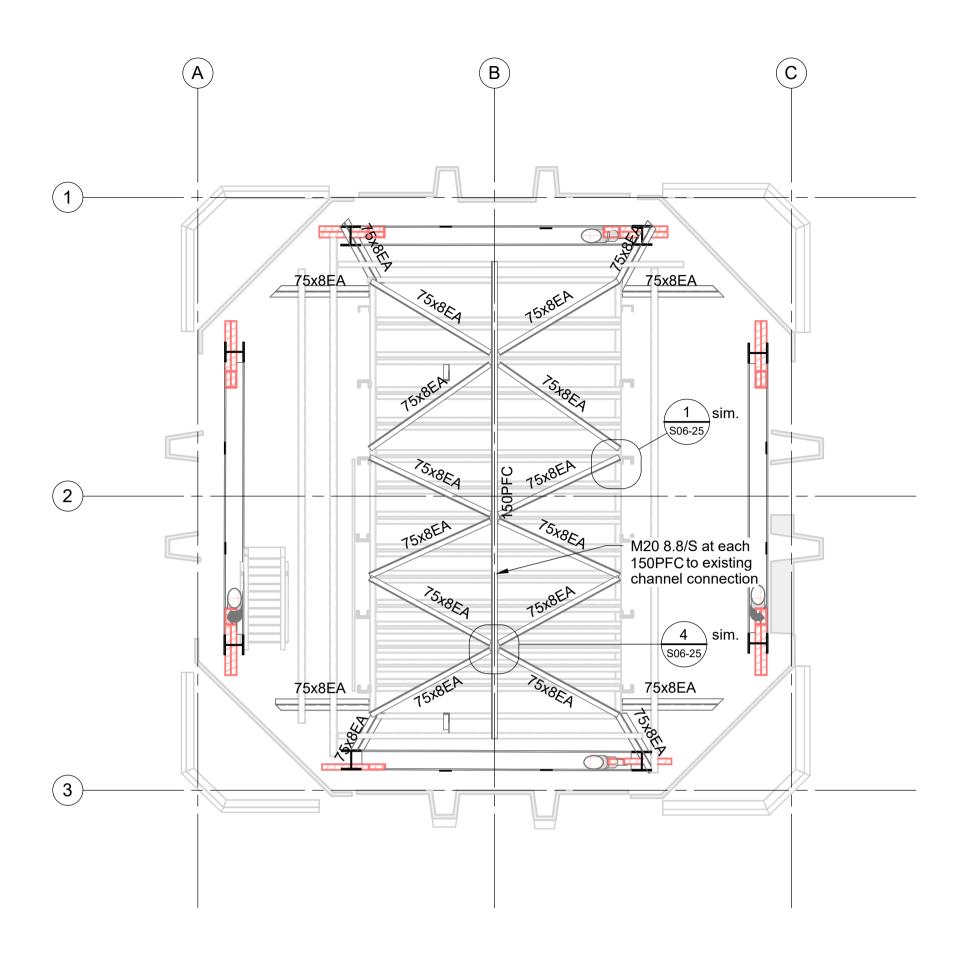
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2 7B upper catwalk - 1m (Tier 2)

<sup>S02-01</sup> 1:50
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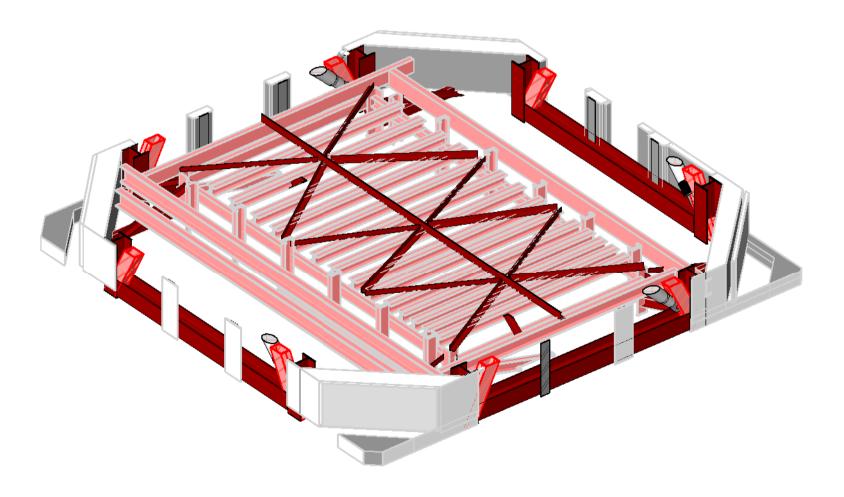


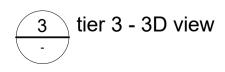
 $\underbrace{4}_{-}$ tier 2 - 3D view

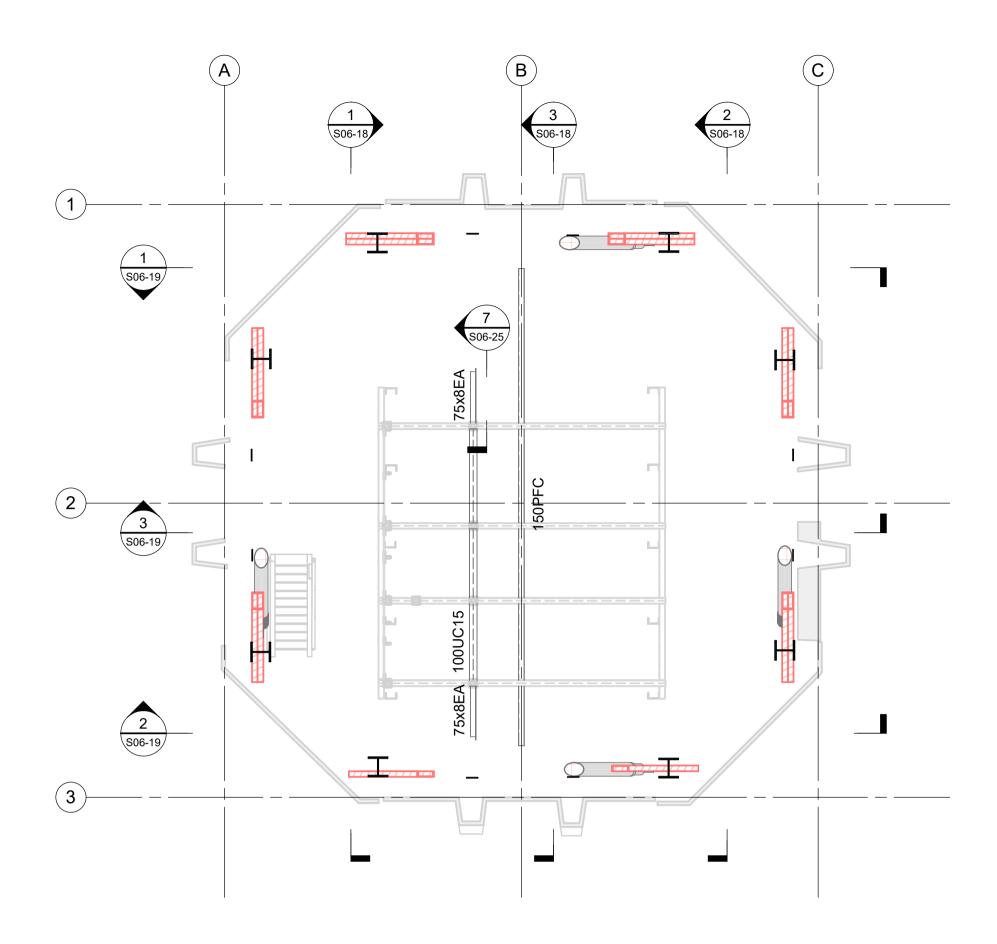
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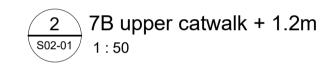


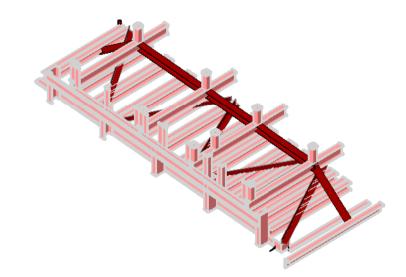
1 7B upper catwalk + 0.6m (Tier 3) 1:50

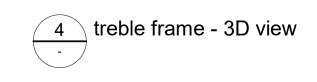




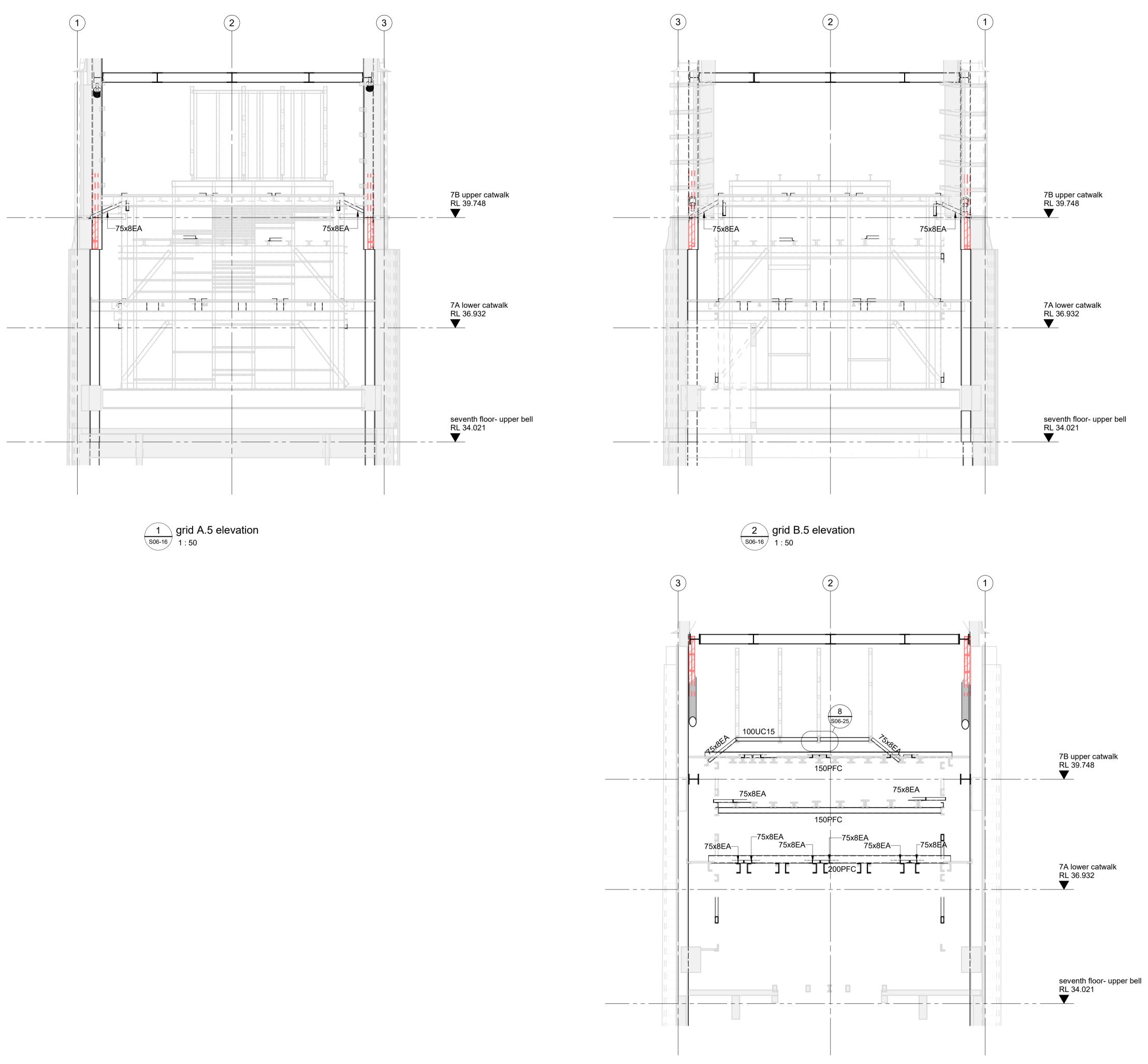






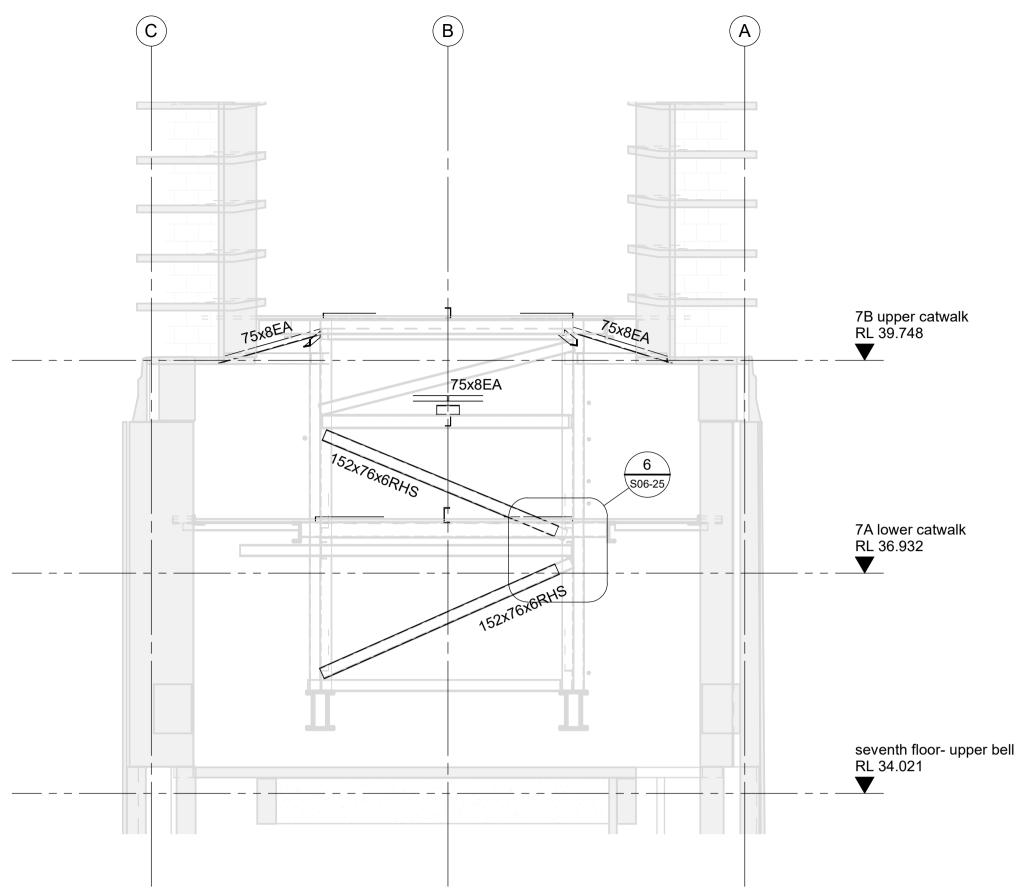


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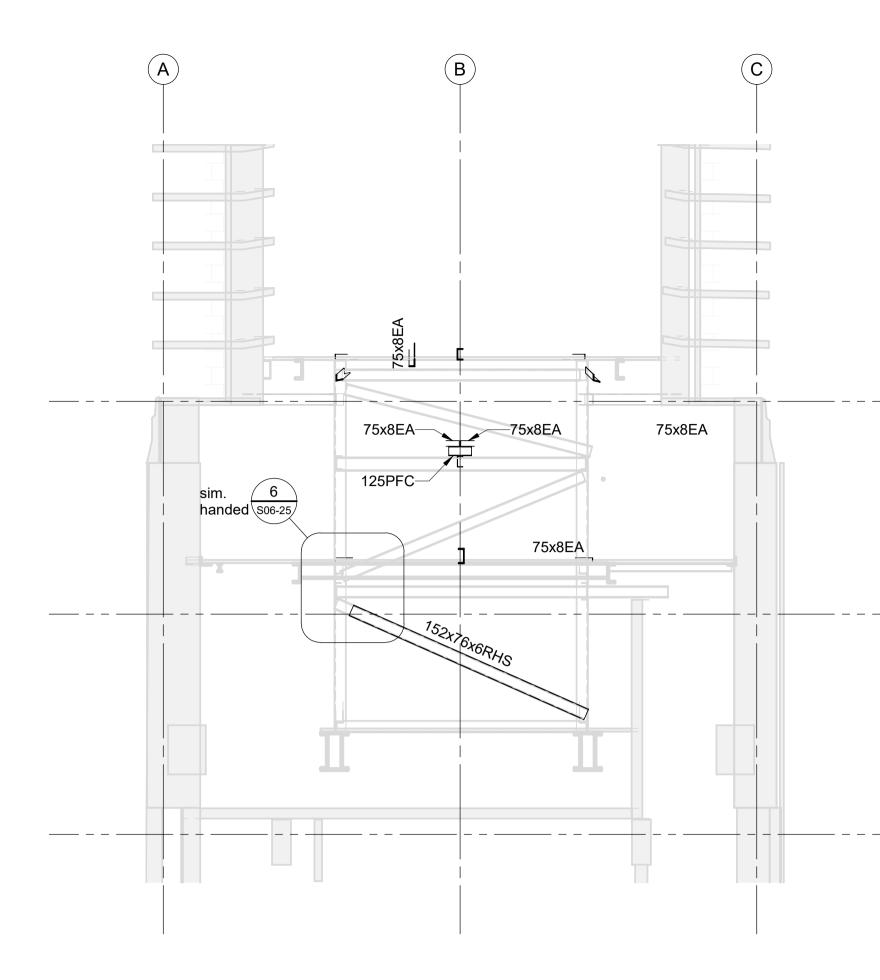




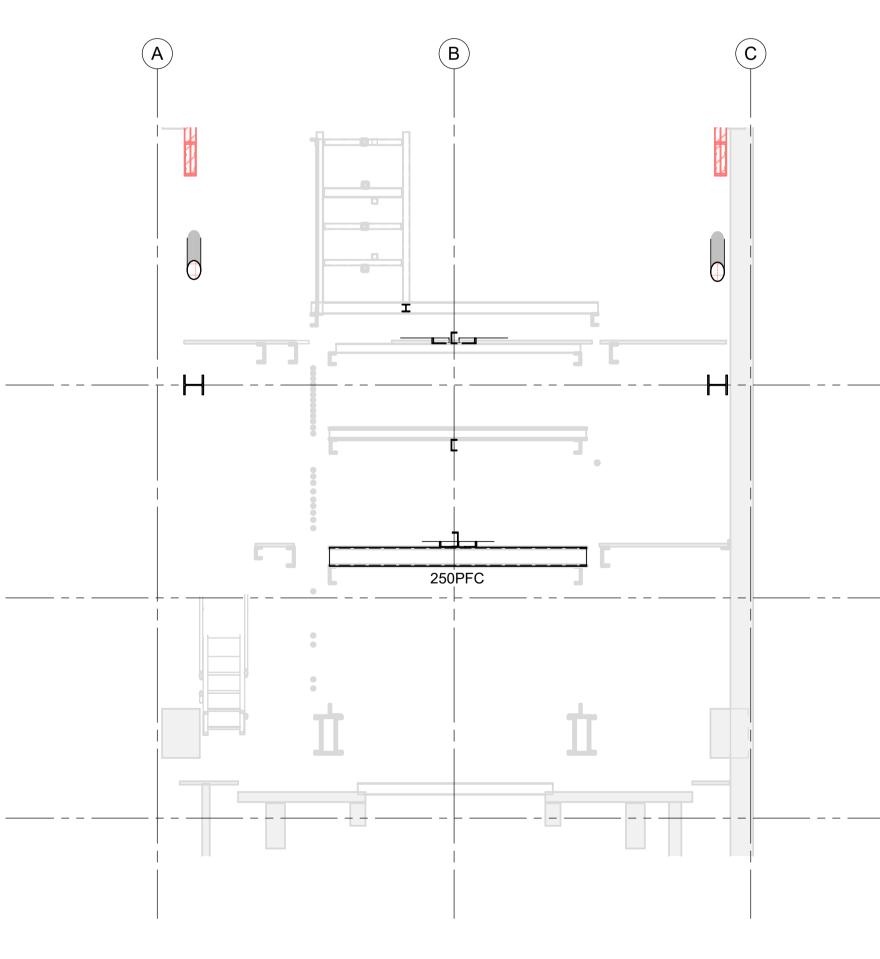
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¹ grid 1.2 elevation 506-16 1 : 50

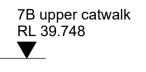




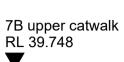


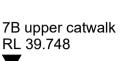


seventh floor- upper bell RL 34.021					
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7B upper catwalk RL 39.748 ▼		Holn	ne	254 Mon Christo Ne Nor	olmes NZ LP treal Street church 8013 ew Zealand nesanz.com 3 366 3366
7A lower catwalk RL 36.932 ▼		Ν	1EN	NAL WAI ⁄IORIAL ON TOWI	
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7A lower catwalk RL 36.932 ▼___

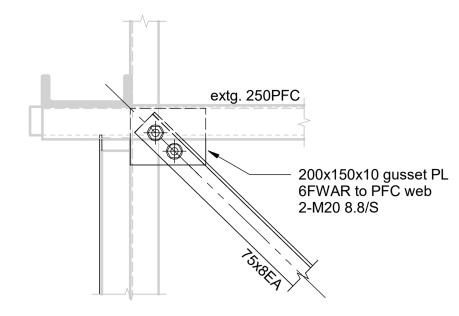


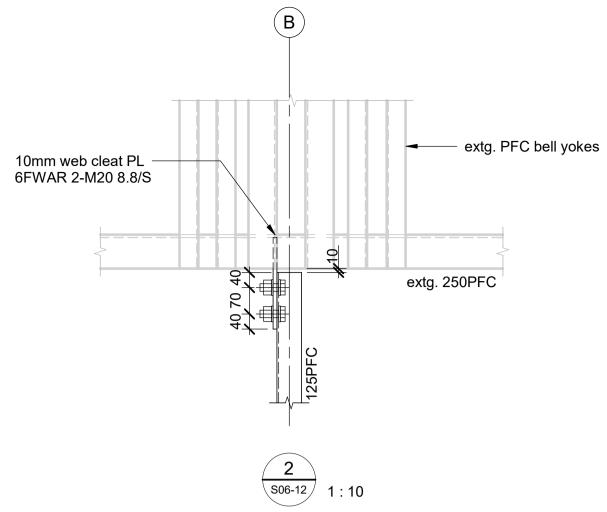


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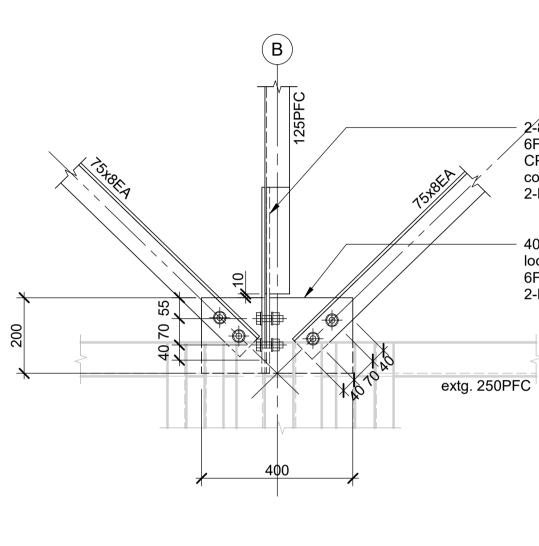
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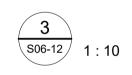
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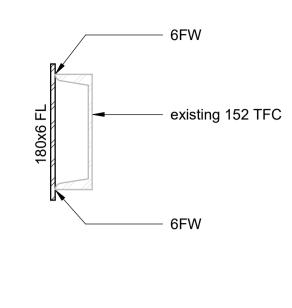


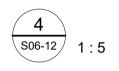


1 typ. 75EA bracket to PFC cleat connection 1:10





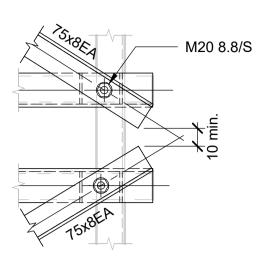


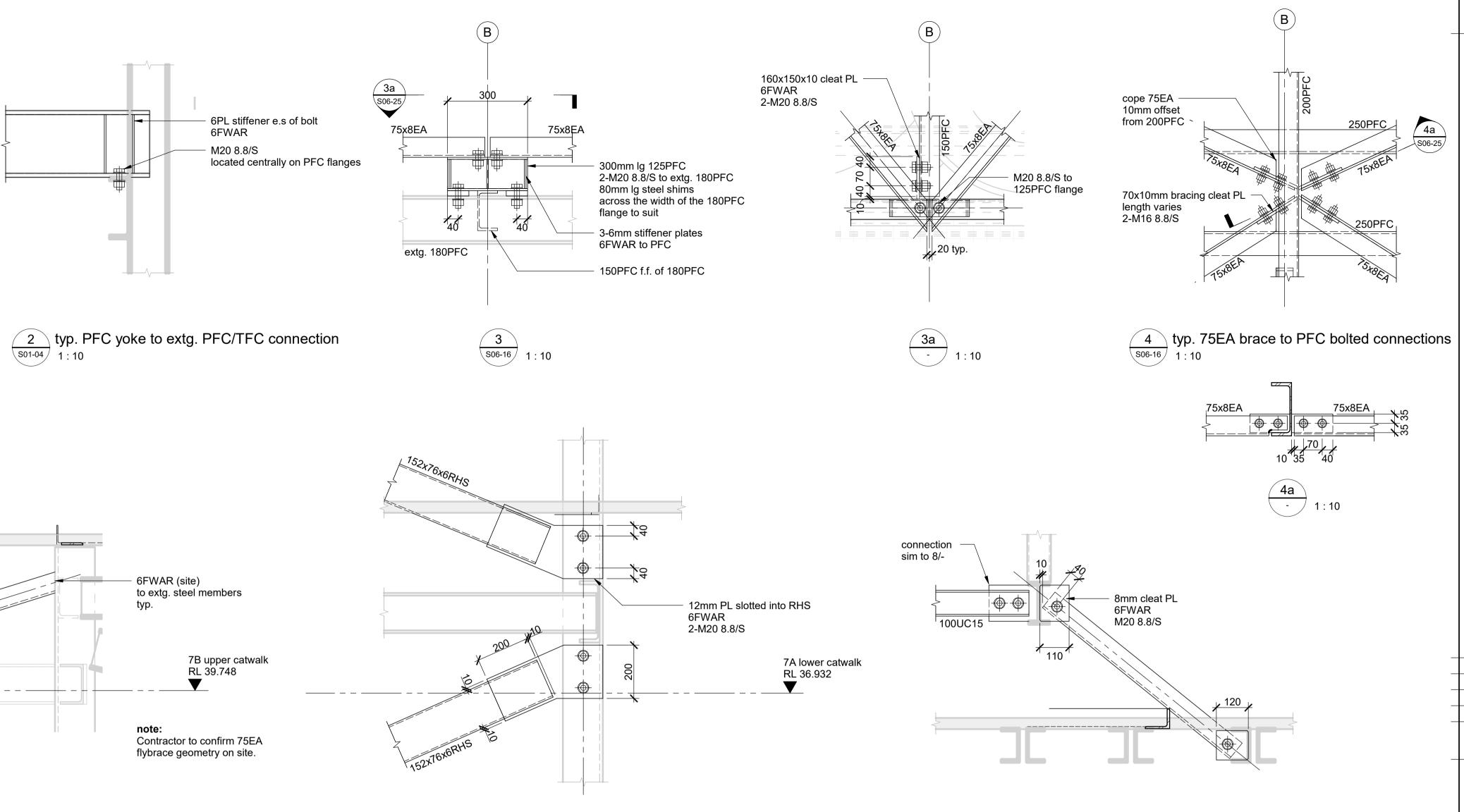


2-8mm plates,
 6FWAR one
 CPBW other
 cope 125PFC flange
 2-M20 8.8/S

400x200x10mm gusset PL located centrally in TFC 6FWAR to extg. TFC web 2-M20 8.8/S

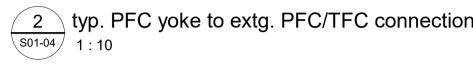
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			254 Montreal Street Christchurch 8013
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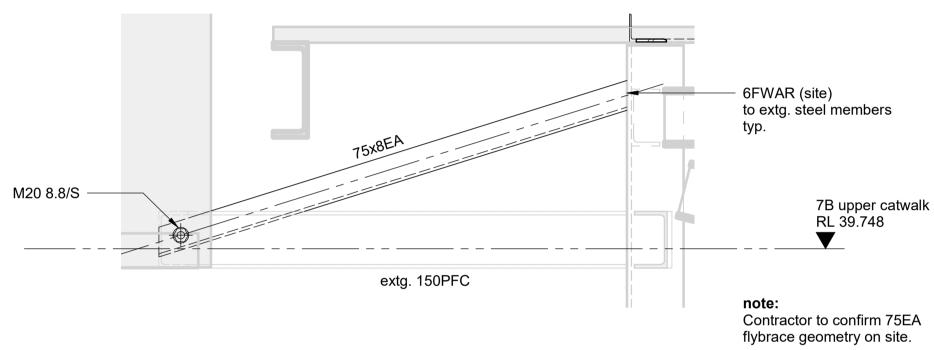


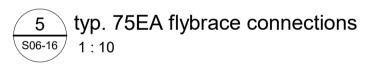


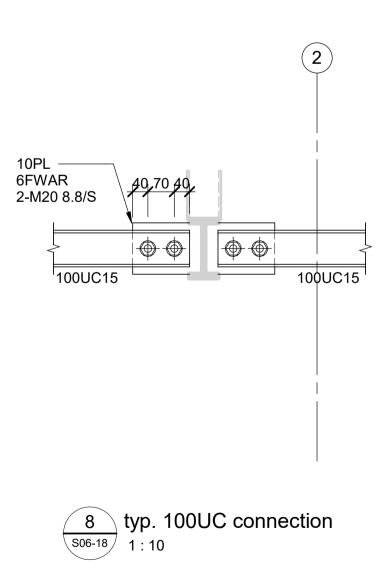


1 typ. EA horizontal braces to bell yokes connection









6 \$06-19 1:10 typ. RHS brace connection

7 typ. treble frame flybrace connection

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notes:

1. Refer to S00 series for all general notes.

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Holmes

Drawn SMP Scale 1:10 (at A1) Filename 144373.13_STR_Carillon tower_R22.rvt

Sheet Title

upper bell frame details

Job Number	Sheet Number	Rev
144373.13	S06-25	D