

Appendix A :
34% and 67% Concept Retrofit Design

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DETAIL SEISMIC ASSESSMENT AND CONCEPT DESIGN TO 34% AND 67% NBS

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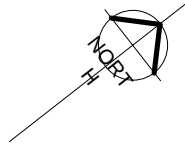
JOB NO.
31542

JULY 2020

SHEET NO.	SHEET
S110	EXISTING GROUND FLOOR PLAN
S112	EXISTING CEILING FRAMING PLAN
S113	EXISTING ROOF PLAN
S120	EXISTING ELEVATIONS
S121	EXISTING ELEVATIONS
S130	EXISTING SECTIONS
S210-0	PROPOSED GROUND FLOOR PLAN OPTION 1
S210-00	PROPOSED GROUND FLOOR PLAN OPTION 2
S210-1	PROPOSED GROUND FLOOR PLAN
S211-0	PROPOSED CEILING FRAMING PLAN OPTION 1
S211-00	PROPOSED CEILING FRAMING PLAN OPTION 2
S211-1	PROPOSED CEILING FRAMING PLAN
S212	PROPOSED ROOF PLAN
S230	PROPOSED STEEL FRAME SECTIONS
S250	PROPOSED STEEL FRAME DETAILS
S290	PROPOSED 3D VIEWS

CONCEPT





EXISTING WALL SCHEDULE	
Type Mark	Description
eTBW1	EXTG TIMBER WALL WITH BRICK VANEER
eTW1	EXTG TIMBER WALL
eURM1	EXTG 340thk SOLID URM WALL
eURM2	EXTG 380thk THREE LEAF CAVITY URM WALL
eURM3	EXTG 280thk TWO LEAF CAVITY URM WALL
eURM4	EXTG 230thk TWO LEAF URM SOLID WALL

EXISTING COLUMN SCHEDULE	
Type Mark	Description
eC1	EXTG 375 x 375 RCONC. COL.
eC2	EXTG 415Ø CONC. COL.

NOTE:
EXTG URM PARAPET ALL
AROUND HEIGHT T.B.C.

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- NOTE:
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 - ENGINEER TO BE NOTIFIED OF ANY VARIATIONS BETWEEN SITE DIMENSIONS AND THOSE ON PLANS.

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P1	31.03.17	Concept Issued	RK
REV	DATE	AMENDMENT	APP



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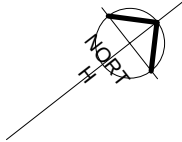
SHEET TITLE

EXISTING GROUND
FLOOR PLAN

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S110	P2	



1 EXISTING GROUND FLOOR PLAN
1 : 100 @ A1 A3 Scale = 2 x A1



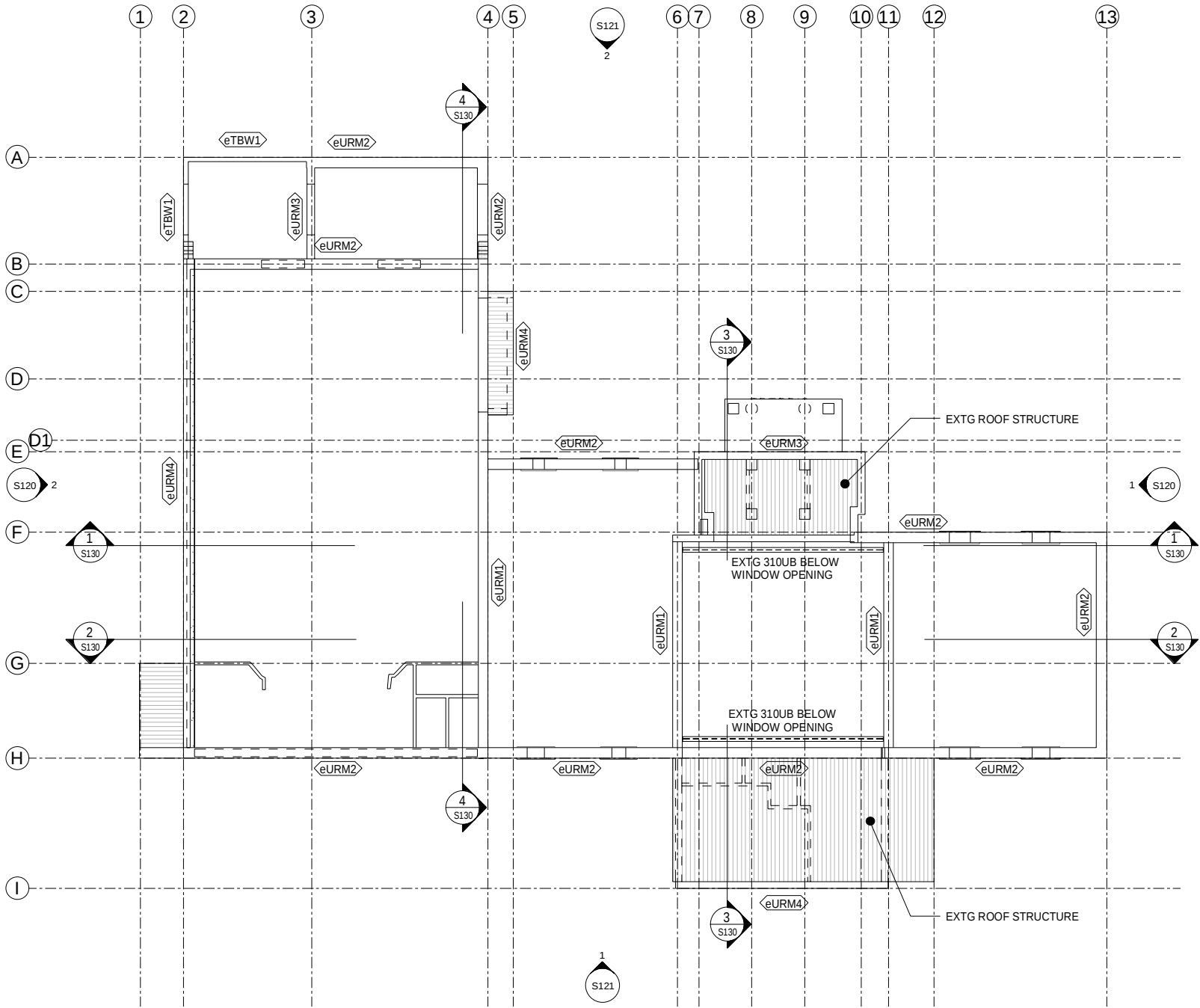
EXISTING WALL SCHEDULE	
Type Mark	Description
eTBW1	EXTG TIMBER WALL WITH BRICK VANEER
eTW1	EXTG TIMBER WALL
eURM1	EXTG 340thk SOLID URM WALL
eURM2	EXTG 380thk THREE LEAF CAVITY URM WALL
eURM3	EXTG 280thk TWO LEAF CAVITY URM WALL
eURM4	EXTG 230thk TWO LEAF URM SOLID WALL

NOTE:
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1 EXISTING CEILING FRAMING PLAN
1 : 100 @ A1 A3 Scale = 2 x A1

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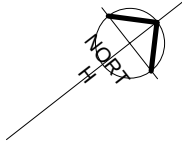
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SHEET TITLE

EXISTING CEILING
FRAMING PLAN

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S112	P2	



NOTE:
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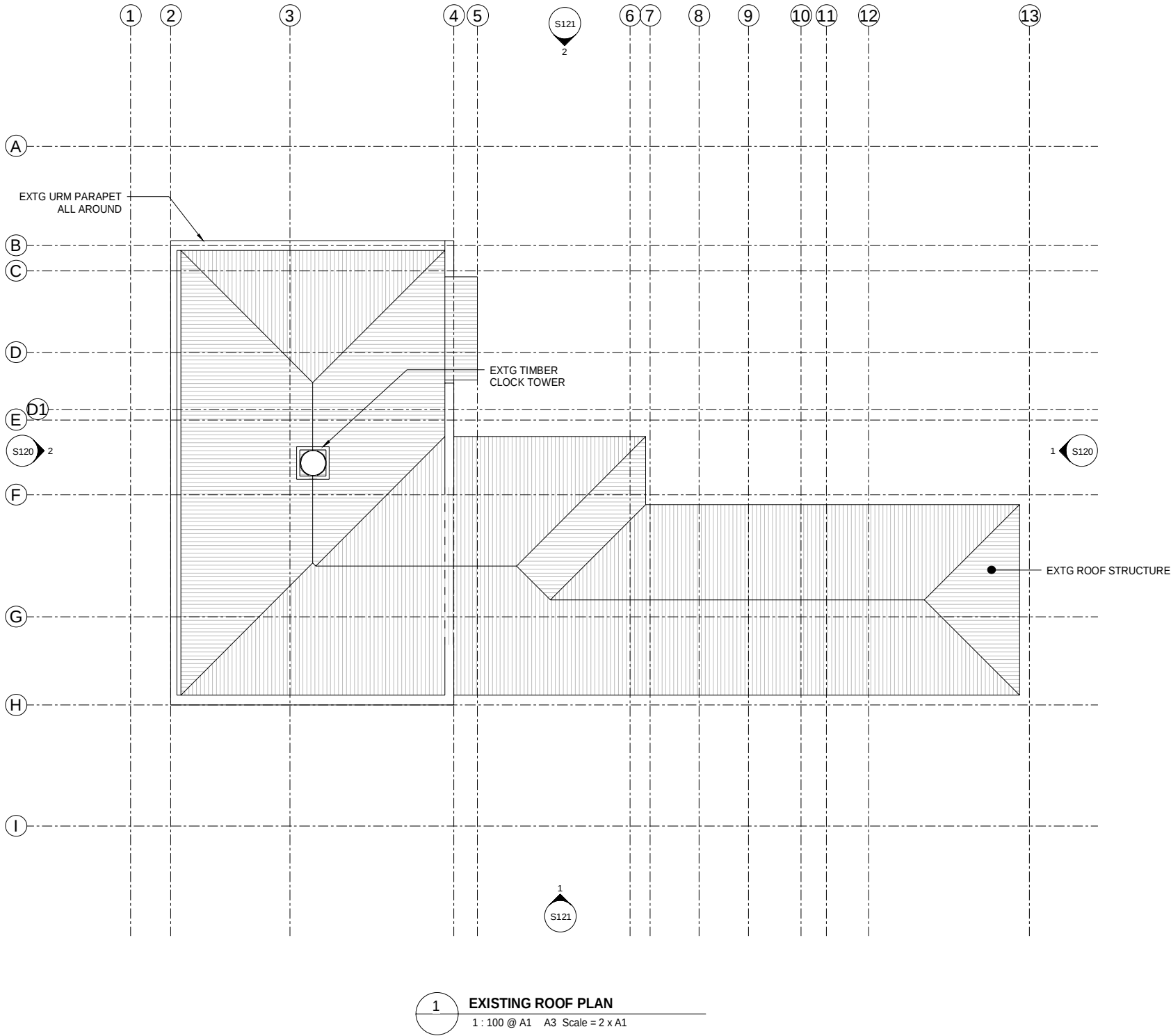
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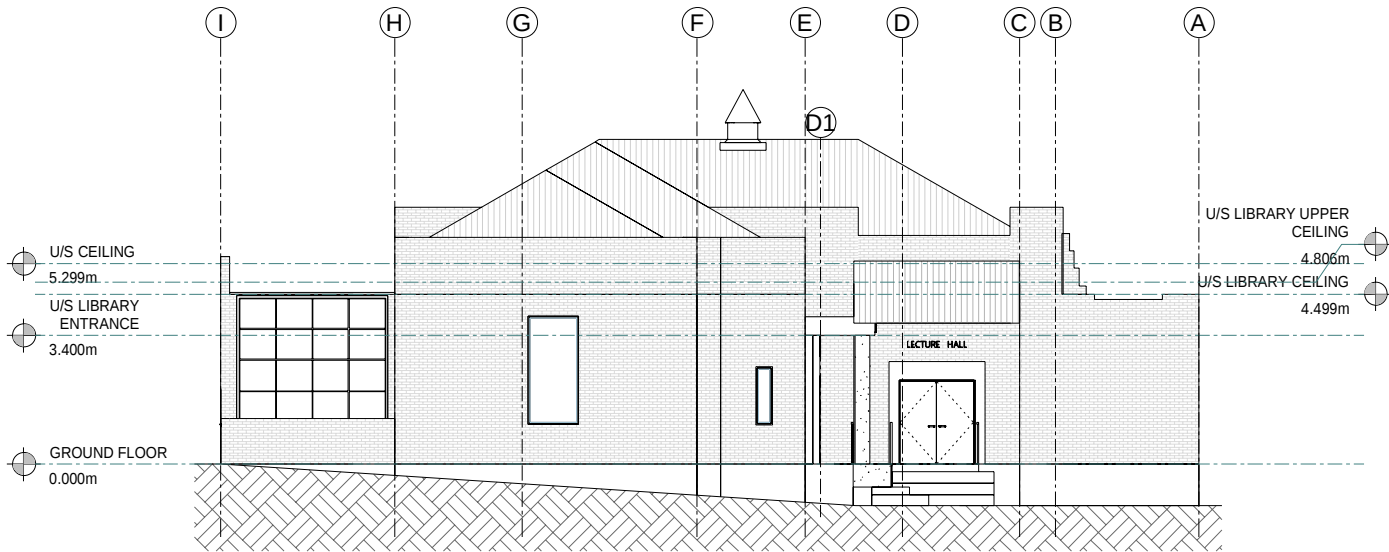
SHEET TITLE

EXISTING ROOF PLAN

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S113	P2	



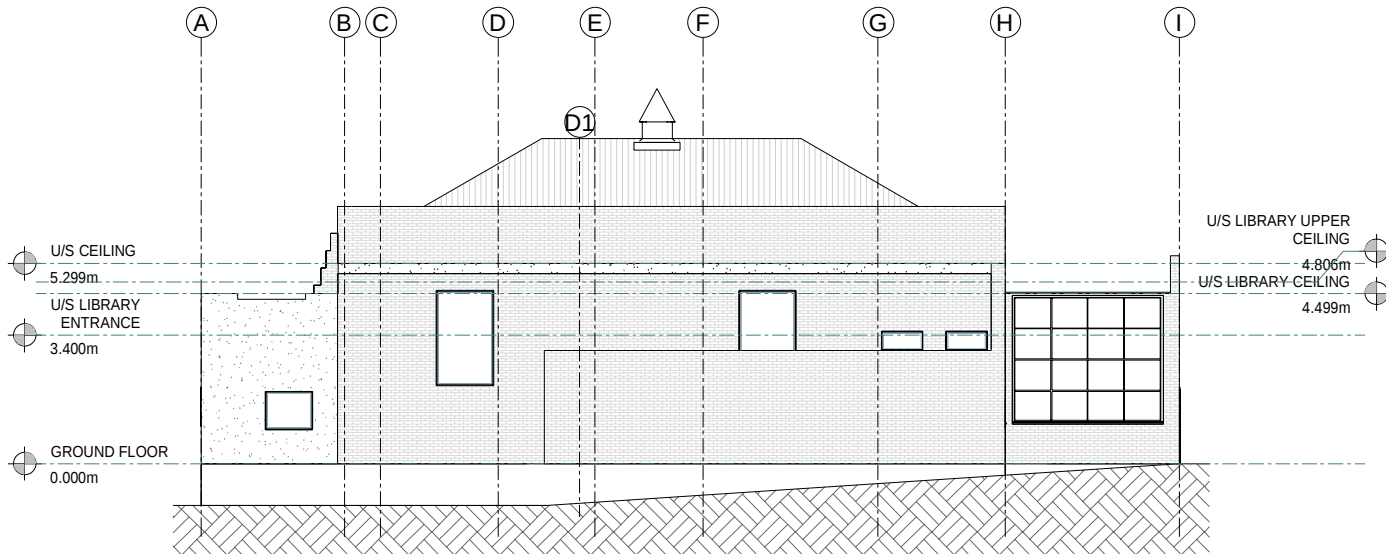
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1
00000

EXISTING NORTH ELEVATION

1 : 100 @ A1 A3 Scale = 2 x A1



2
00000

EXISTING SOUTH ELEVATION

1 : 100 @ A1 A3 Scale = 2 x A1

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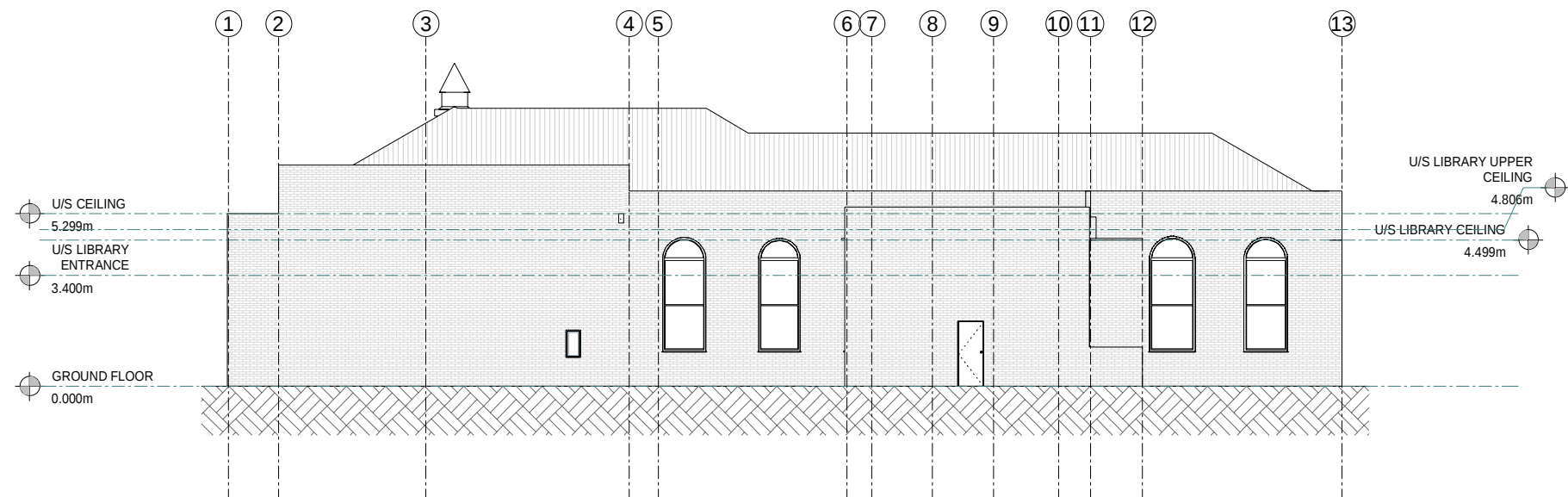
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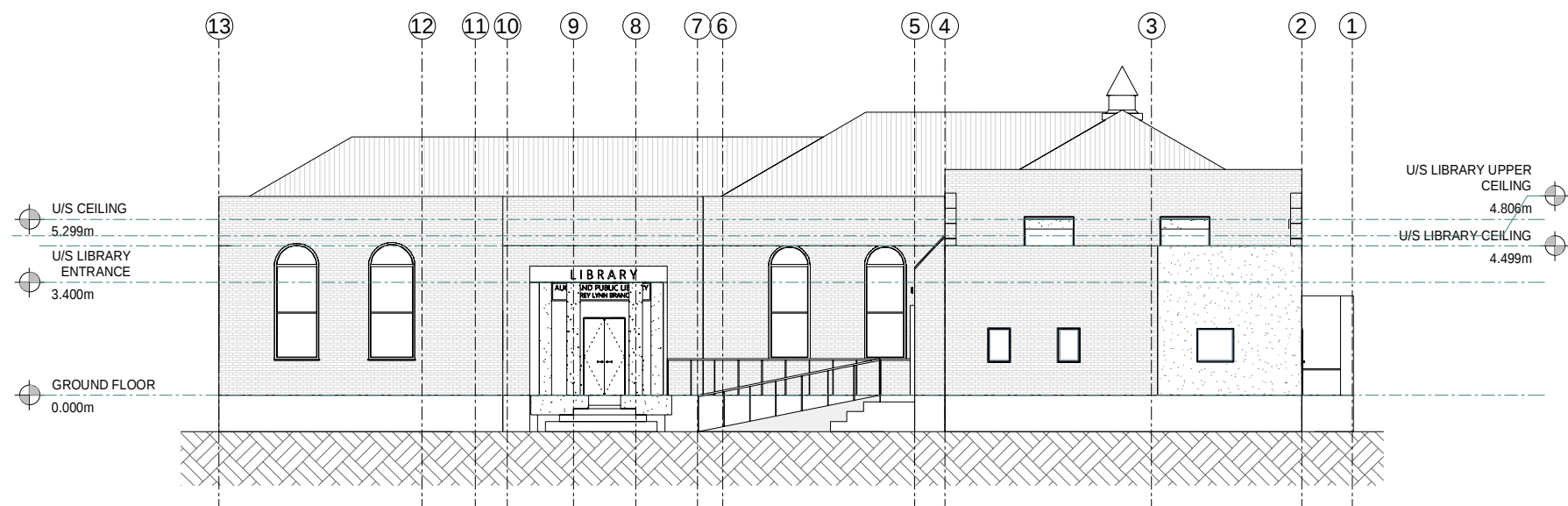
EXISTING ELEVATIONS

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S120	P2	

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1 EXISTING EAST ELEVATION
00000 1 : 100 @ A1 A3 Scale = 2 x A1



2 EXISTING WEST ELEVATION
00000 1 : 100 @ A1 A3 Scale = 2 x A1

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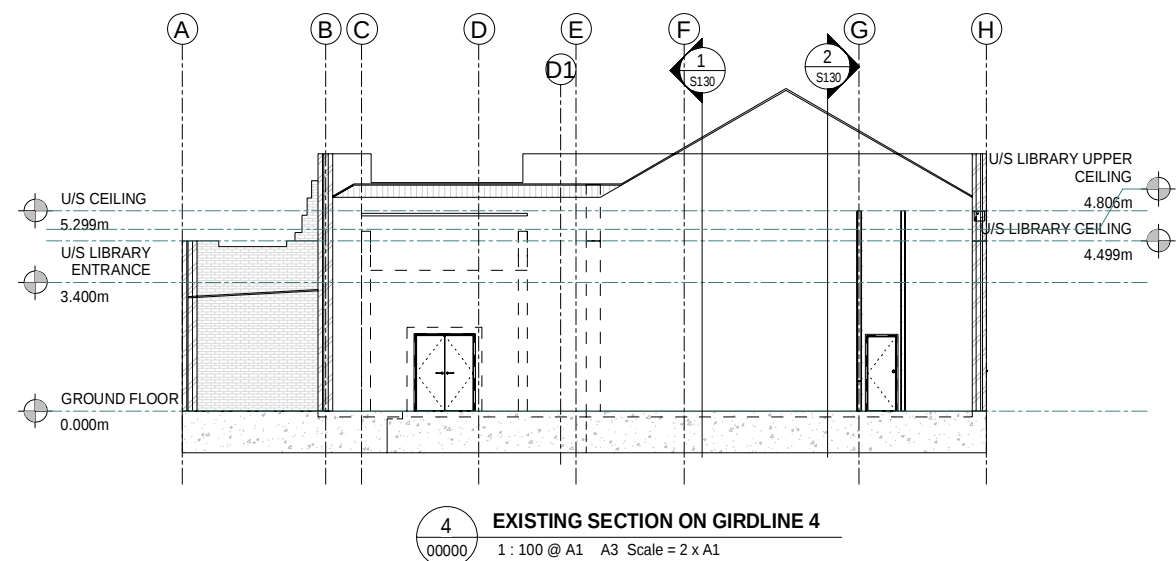
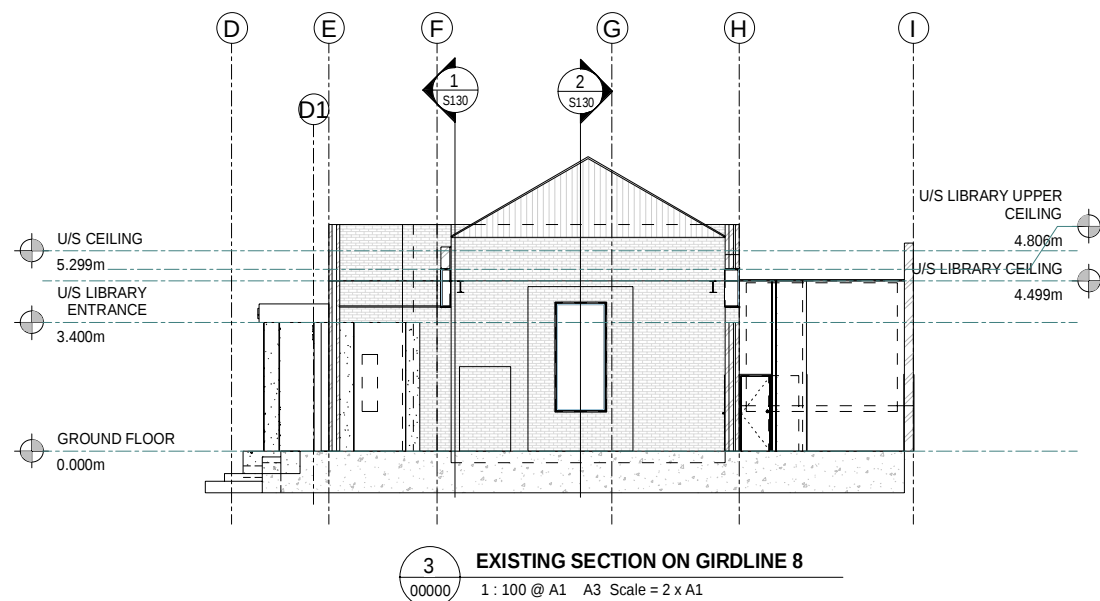
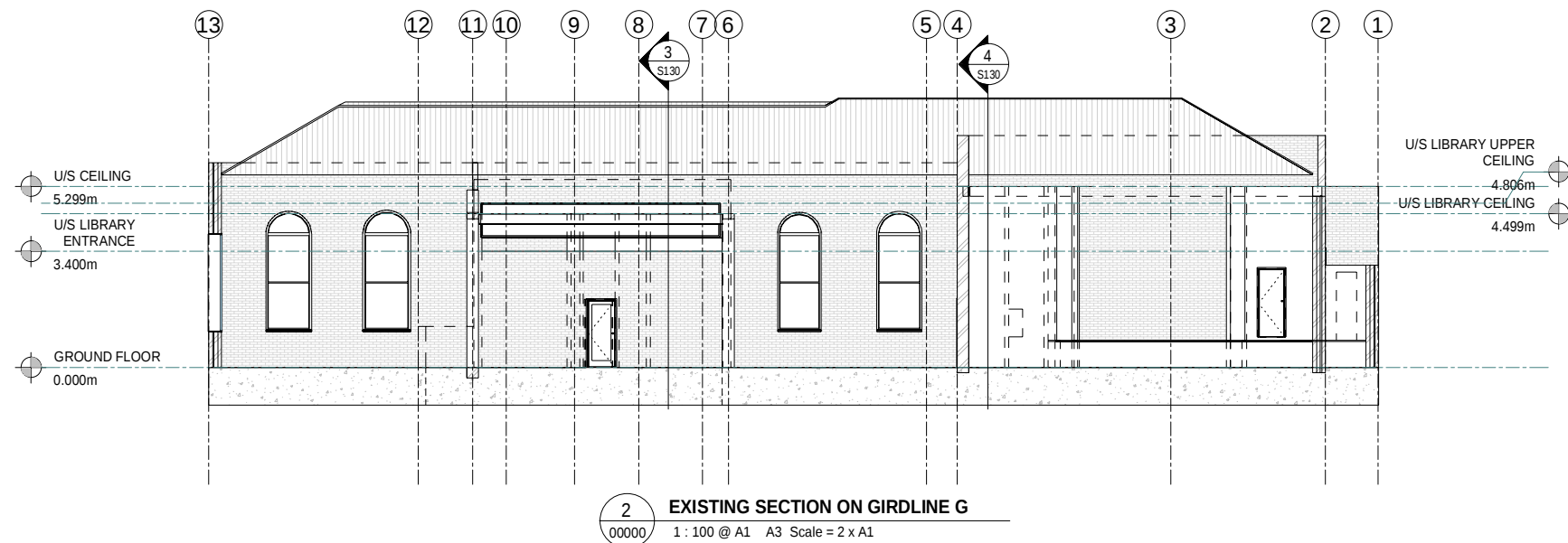
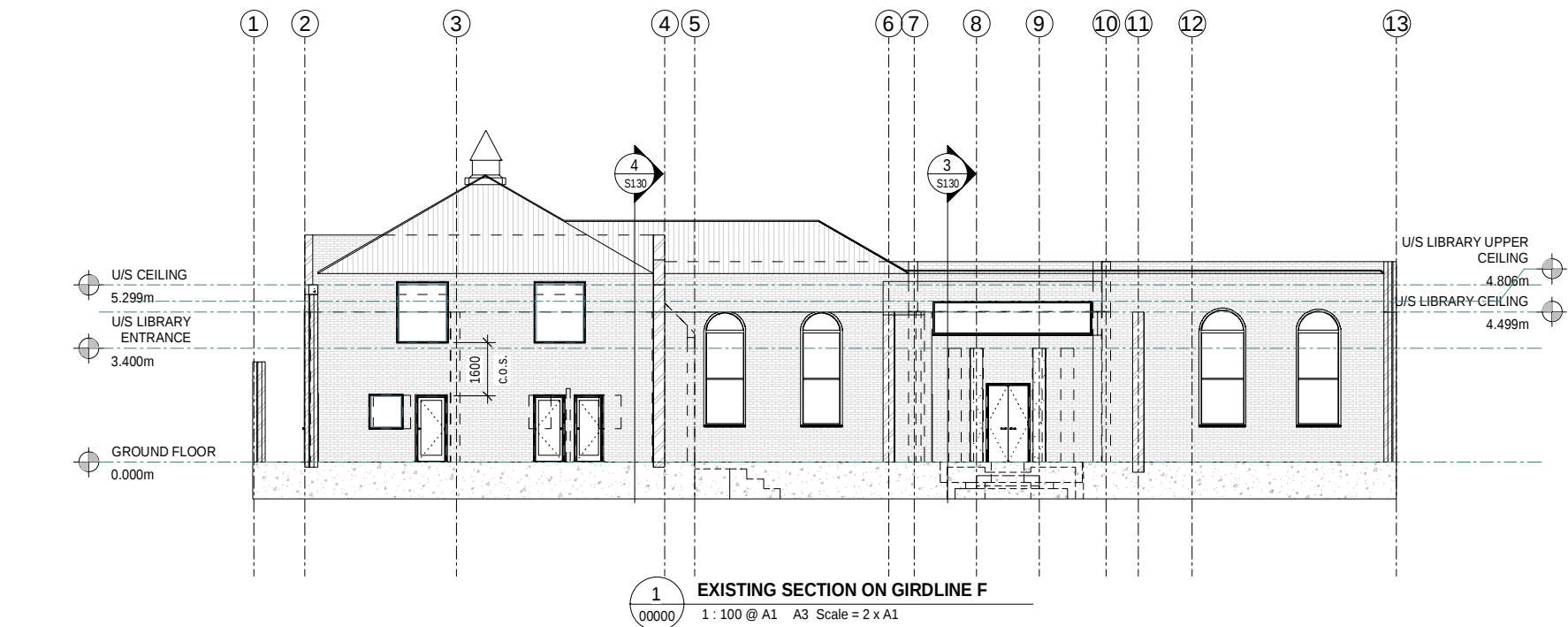
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SHEET TITLE

EXISTING ELEVATIONS

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S121	P2	

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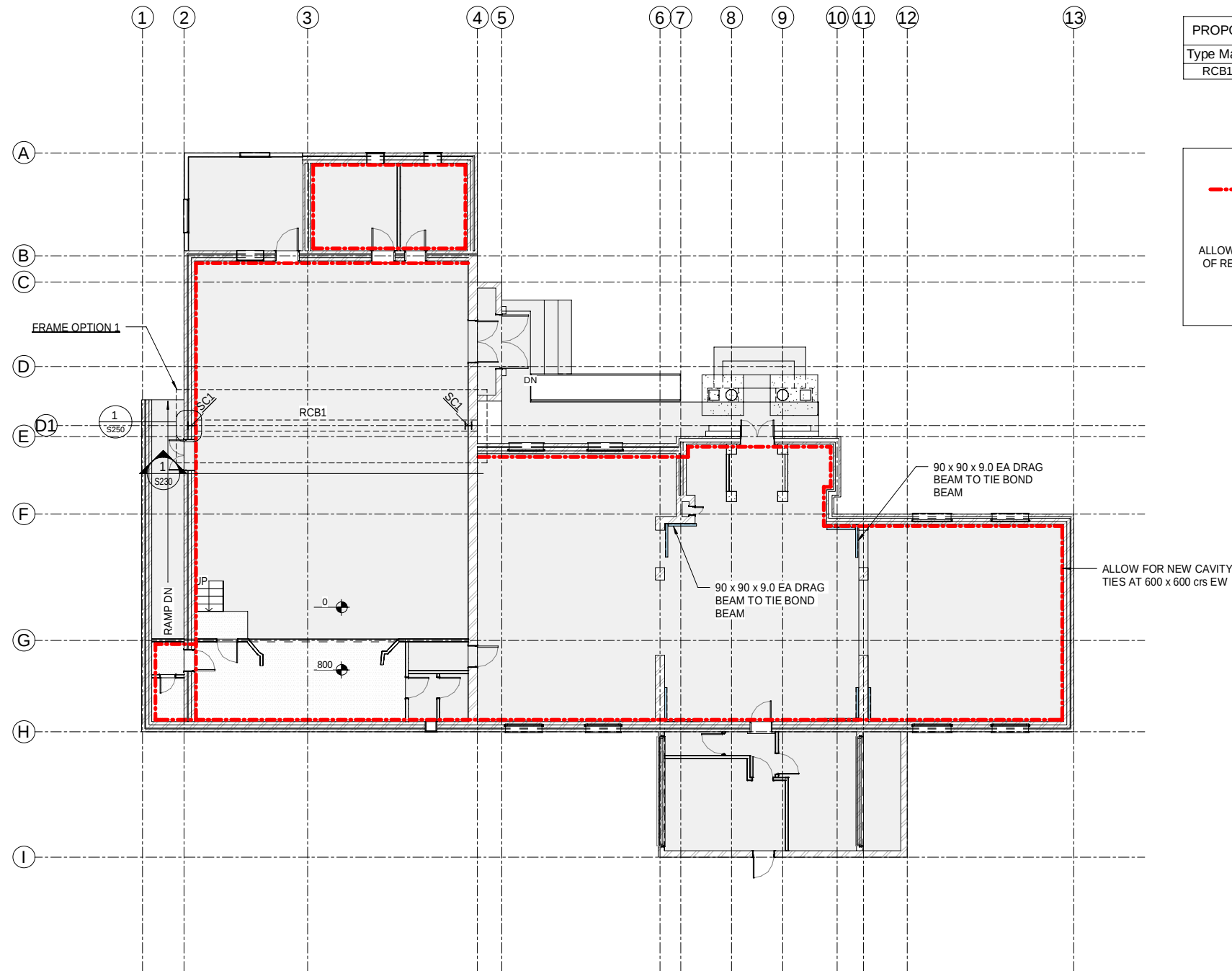
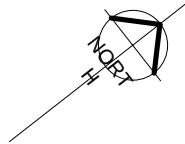
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SHEET TITLE
EXISTING SECTIONS

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S130	P2	



1 PROPOSED GROUND FLOOR PLAN 67% NBS OPTION 1
1 : 100 @ A1 A3 Scale = 2 x A1

FOR 67% NBS
OPTION 1 - CANTILEVER COL ON GRID E

PROPOSED FRAMING SCHEDULE 67% NBS OPT1	
Type Mark	Description
RB16	RB16Ø REIDBRACE
RB20	RB20Ø REIDBRACE
RB25	RB25Ø REIDBRACE
SB2	75 x 75 x 5.0 SHS
SB3	150 x 90 x 8 UA
SB6	90 x 90 x 9.0 EA
SB7	90 x 90 x 12 EA

PROPOSED COLUMN SCHEDULE 67% NBS OPT1	
Type Mark	Description
SC1	250UC89.5

PROPOSED FOUNDATION SCHEDULE 67% NBS OPT1	
Type Mark	Description
RCB1	400w x 800d RC GROUND BEAM

LEGEND:

--- NEW CAVITY TIES REQ'D SUBJECT TO DETAIL INSPECTION OF EXTG CAVITY TIE CONDITION, SIZE & FREQUENCY

ALLOW FOR PATCH REPAIR OF RENDER & REPAINTING ON URM WALLS

150

M12 MECHANICAL ANCHOR

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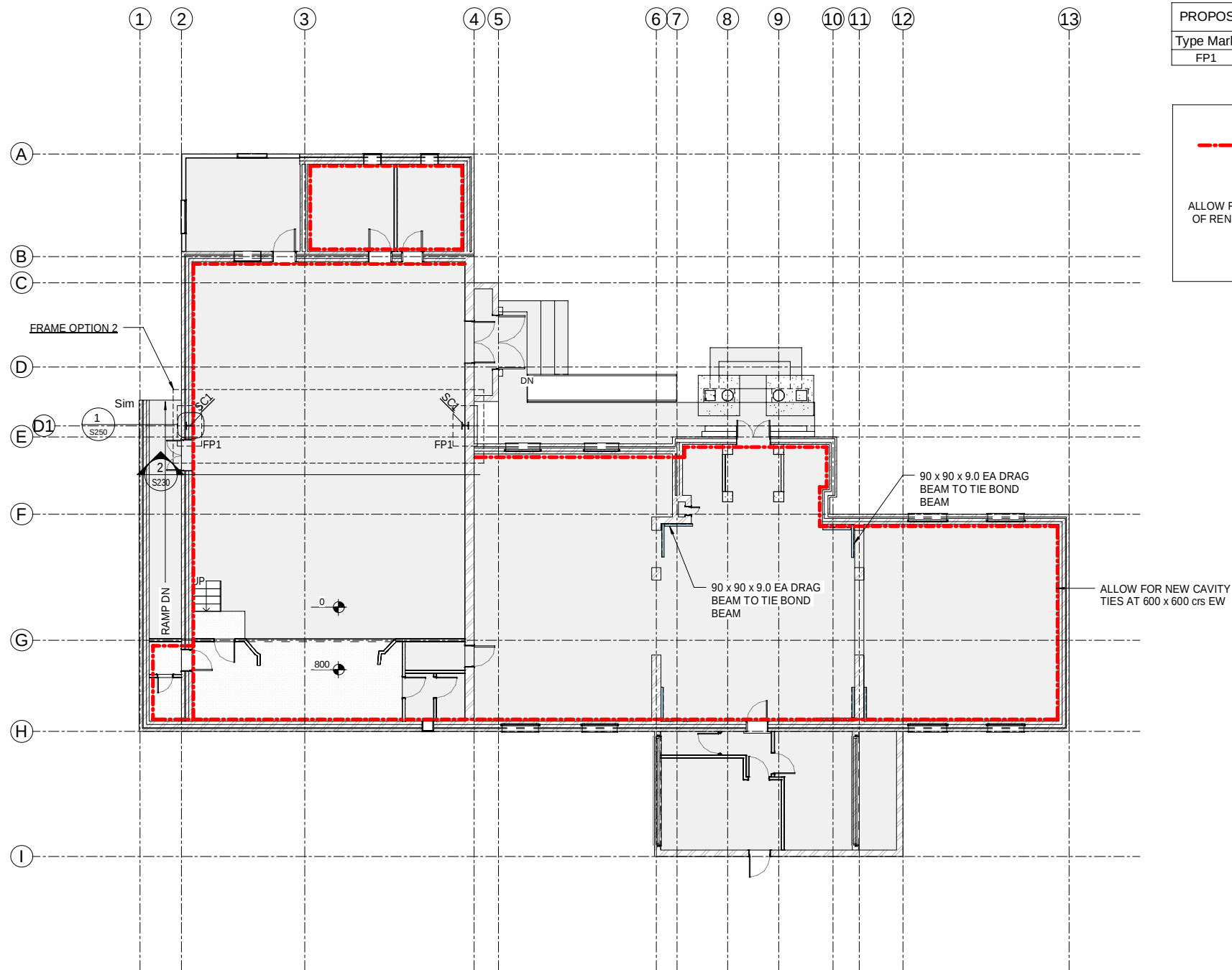
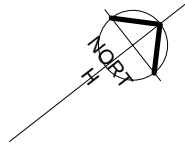
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SHEET TITLE

67% NBS

PROPOSED GROUND FLOOR PLAN OPTION 1

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S210-0	P2	



1 PROPOSED GROUND FLOOR PLAN 67% NBS OPTION 2
1 : 100 @ A1 A3 Scale = 2 x A1

PROPOSED FRAMING SCHEDULE 67% NBS OPT2	
Type Mark	Description
RB16	RB16Ø REIDBRACE
RB20	RB20Ø REIDBRACE
RB25	RB25Ø REIDBRACE
SB2	75 x 75 x 5.0 SHS
SB3	150 x 90 x 8 UA
SB6	90 x 90 x 9.0 EA
SB7	90 x 90 x 12 EA

PROPOSED COLUMN SCHEDULE 67% NBS OPT2	
Type Mark	Description
SC1	250UC89.5

PROPOSED FOUNDATION SCHEDULE 67% NBS OPT2	
Type Mark	Description
FP1	1500L x 900W x 600D FOUNDATION PAD

LEGEND:

NEW CAVITY TIES REQ'D SUBJECT TO DETAIL INSPECTION OF EXTG CAVITY TIE CONDITION, SIZE & FREQUENCY

ALLOW FOR PATCH REPAIR OF RENDER & REPAINTING ON URM WALLS

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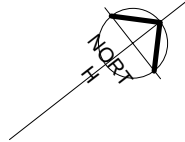
SHEET TITLE

67% NBS

PROPOSED GROUND FLOOR PLAN OPTION 2

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S210-00	P2	

FOR 67% NBS
OPTION 2 - PORTAL FRAME ON GRID E



LEGEND:

NEW CAVITY TIES REQ'D SUBJECT TO DETAIL
INSPECTION OF EXTG CAVITY TIE CONDITION, SIZE &
FREQUENCY

ALLOW FOR PATCH REPAIR
OF RENDER & REPAINTING
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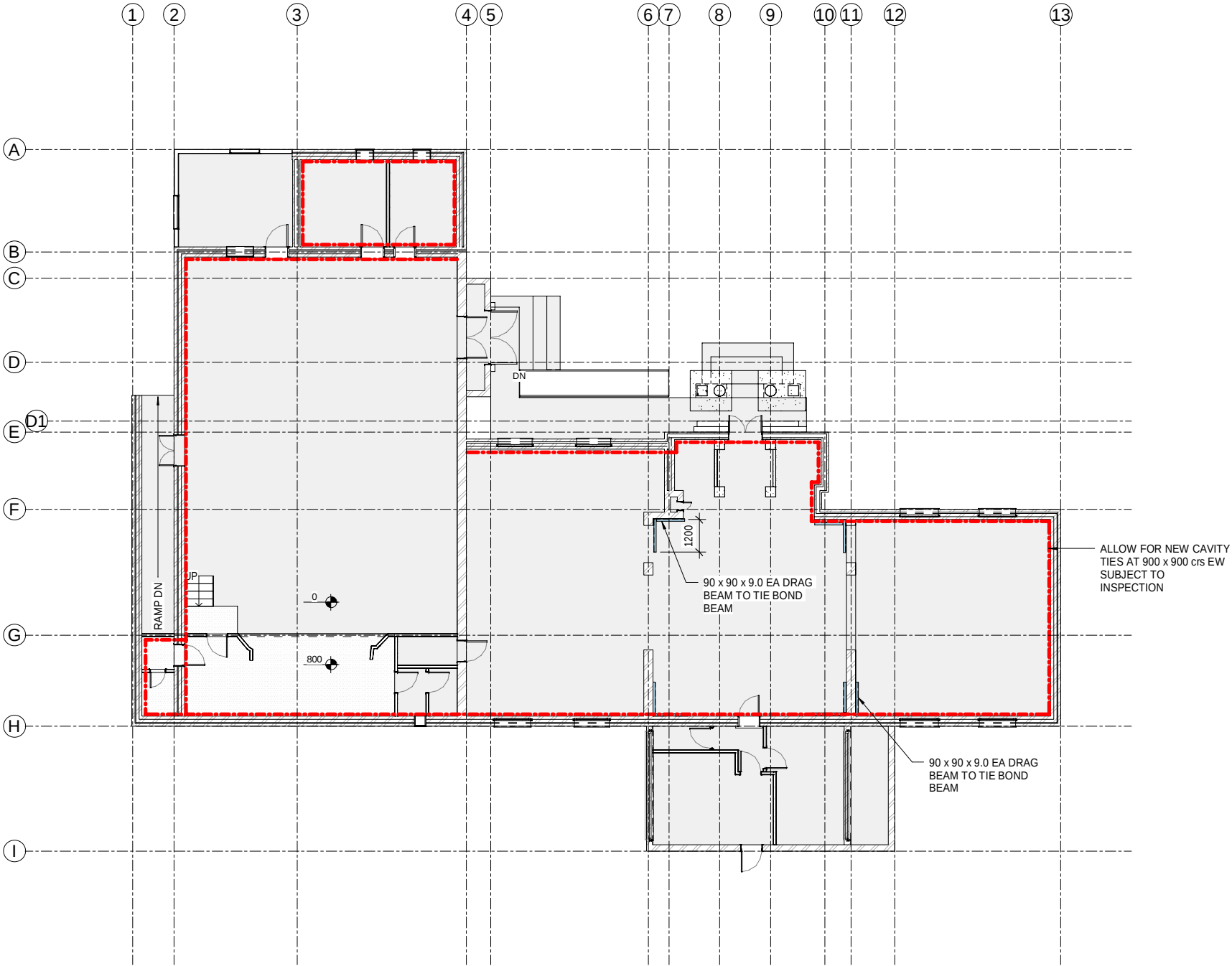
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34% NBS

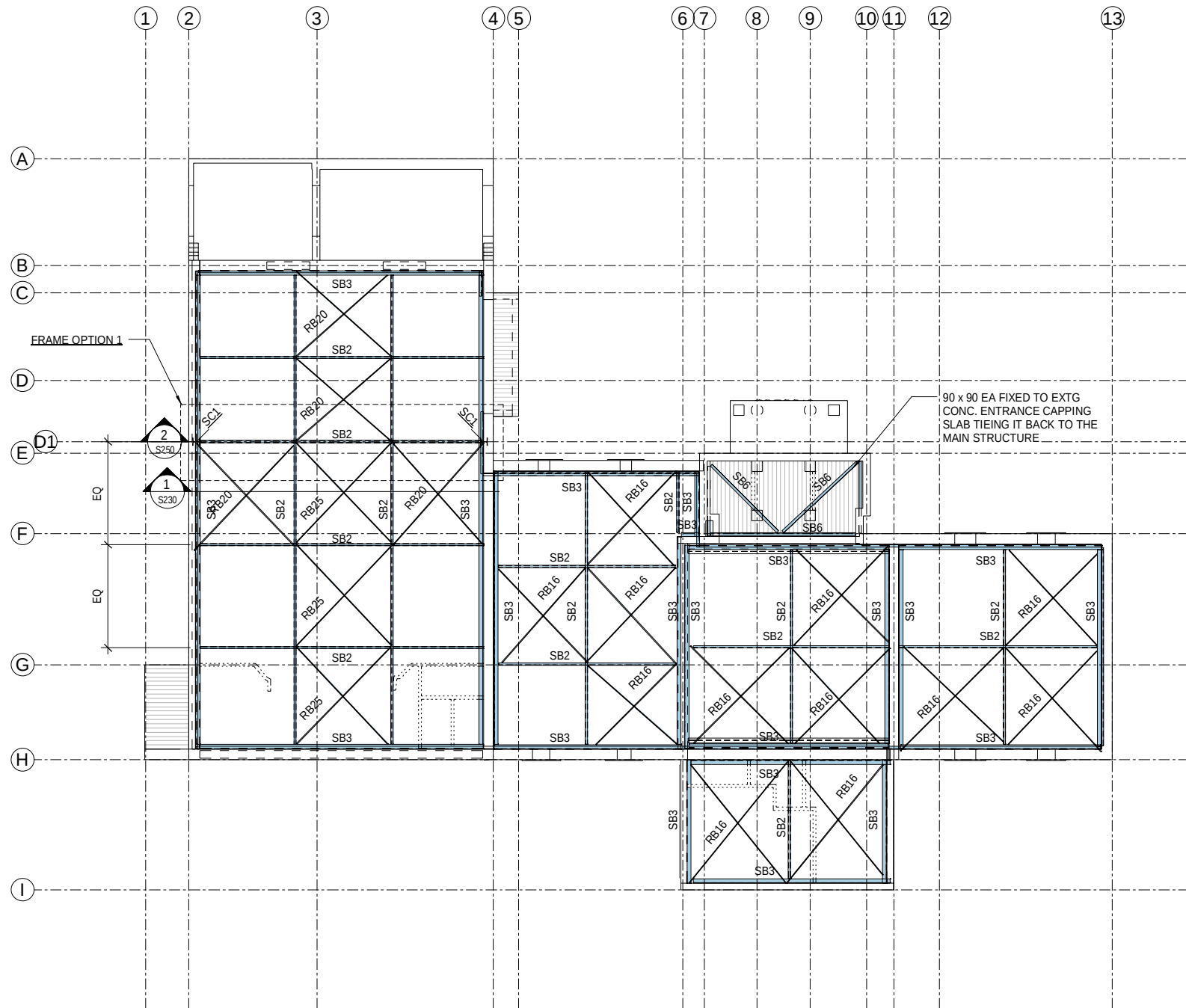
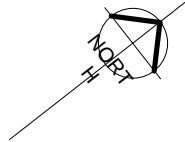
PROPOSED GROUND
FLOOR PLAN

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S210-1	P2	



1 PROPOSED GROUND FLOOR PLAN 34% NBS
1 : 100 @ A1 A3 Scale = 2 x A1

FOR 34% NBS ONLY



1 PROPOSED CEILING FRAMING PLAN 67% NBS OPTION 1
1 : 100 @ A1 A3 Scale = 2 x A1

FOR 67% NBS
OPTION 1 - CANTILEVER COL ON GRID E

PROPOSED FRAMING SCHEDULE 67% NBS OPT1	
Type Mark	Description
RB16	RB16Ø REIDBRACE
RB20	RB20Ø REIDBRACE
RB25	RB25Ø REIDBRACE
SB2	75 x 75 x 5.0 SHS
SB3	150 x 90 x 8 UA
SB6	90 x 90 x 9.0 EA
SB7	90 x 90 x 12 EA

PROPOSED COLUMN SCHEDULE 67% NBS OPT1	
Type Mark	Description
SC1	250UC89.5

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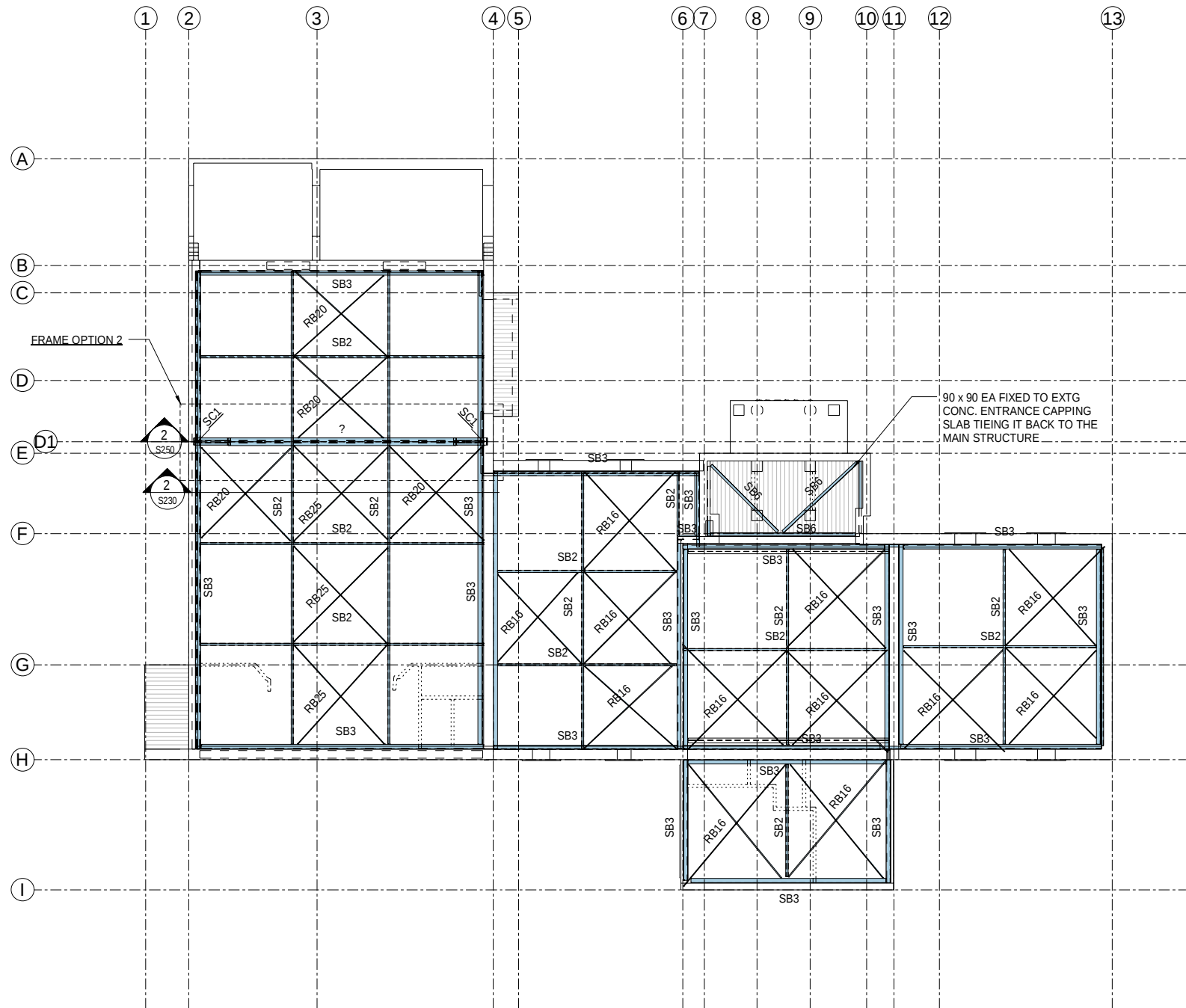
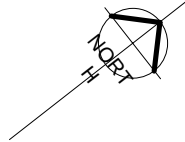
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SHEET TITLE

67% NBS

PROPOSED CEILING
FRAMING PLAN OPTION
1

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S211-0	P2	



1 PROPOSED CEILING FRAMING PLAN 67% NBS OPTION 2
1 : 100 @ A1 A3 Scale = 2 x A1

PROPOSED FRAMING SCHEDULE 67% NBS OPT2	
Type Mark	Description
RB16	RB16Ø REIDBRACE
RB20	RB20Ø REIDBRACE
RB25	RB25Ø REIDBRACE
SB2	75 x 75 x 5.0 SHS
SB3	150 x 90 x 8 UA
SB6	90 x 90 x 9.0 EA
SB7	90 x 90 x 12 EA

PROPOSED COLUMN SCHEDULE 67% NBS OPT2	
Type Mark	Description
SC1	250UC89.5

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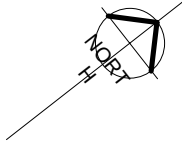
SHEET TITLE

67% NBS

PROPOSED CEILING
FRAMING PLAN OPTION
2

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S211-00	P2	

FOR 67% NBS
OPTION 2 - PORTAL FRAME ON GRID E

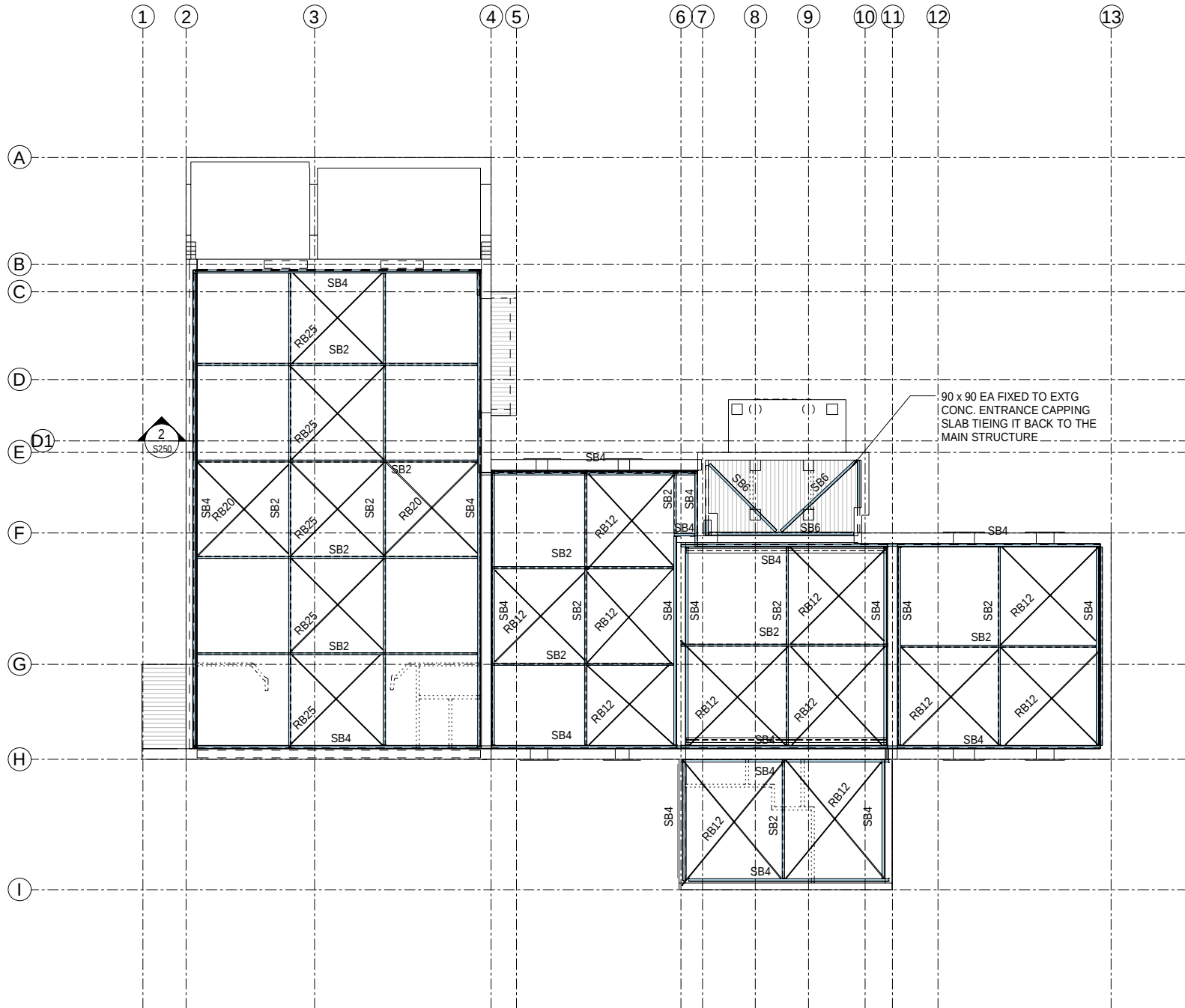


PROPOSED FRAMING SCHEDULE 34% NBS	
Type Mark	Description
RB16	RB16Ø REIDBRACE
RB20	RB20Ø REIDBRACE
RB25	RB25Ø REIDBRACE
SB2	75 x 75 x 5.0 SHS
SB3	150 x 90 x 8 UA
SB6	90 x 90 x 9.0 EA
SB7	90 x 90 x 12 EA

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CONCEPT

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 - ENGINEER TO BE NOTIFIED OF ANY VARIATIONS BETWEEN SITE DIMENSIONS AND THOSE ON PLANS.



1 PROPOSED CEILING FRAMING PLAN 34% NBS
1 : 100 @ A1 A3 Scale = 2 x A1

FOR 34% NBS ONLY

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P1	31.03.17	Concept Issued	RK
REV	DATE	AMENDMENT	APP

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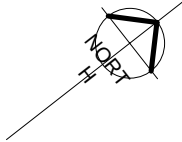
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LYNN

SHEET TITLE

34% NBS

PROPOSED CEILING
FRAMING PLAN

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CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
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NOTE:
ALL STEELWORK TO BE HOT DIP GALV. (85µm)

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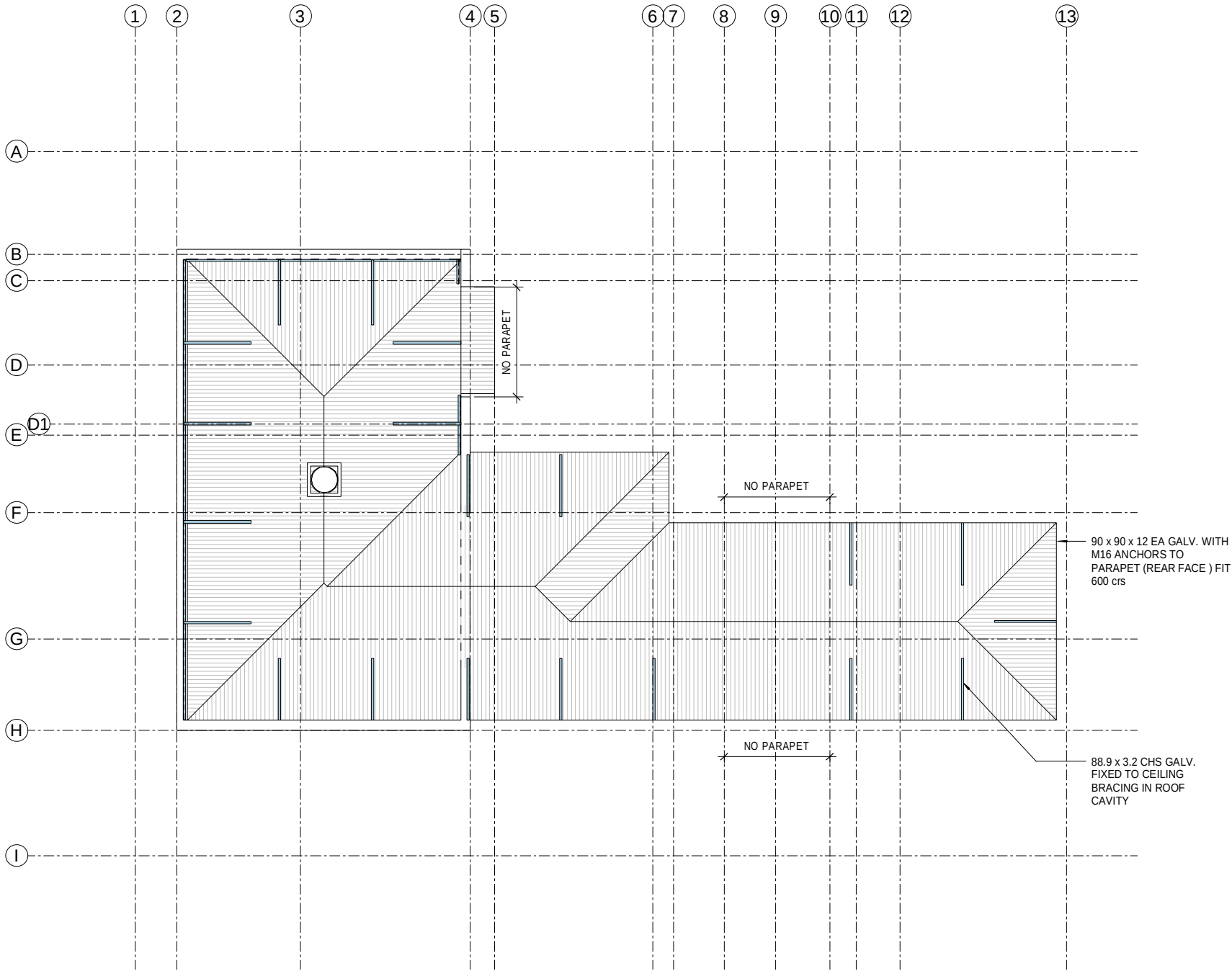
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LYNN

SHEET TITLE

34% & 67% NBS

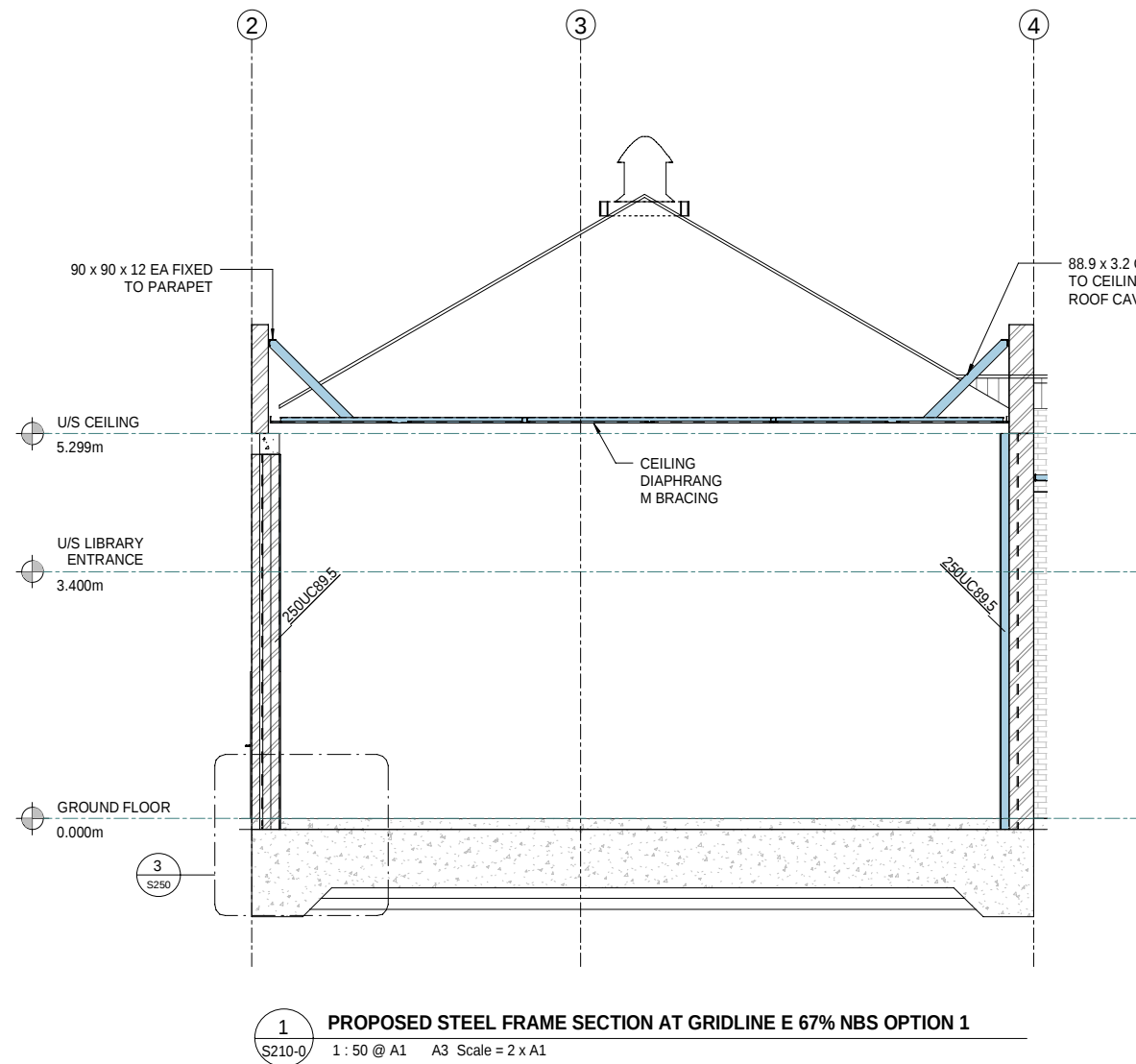
PROPOSED ROOF PLAN

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 100 @ A1 1 : 200 @ A3		
JOB No.	DWG No.	REVISION	
31542	S212	P2	

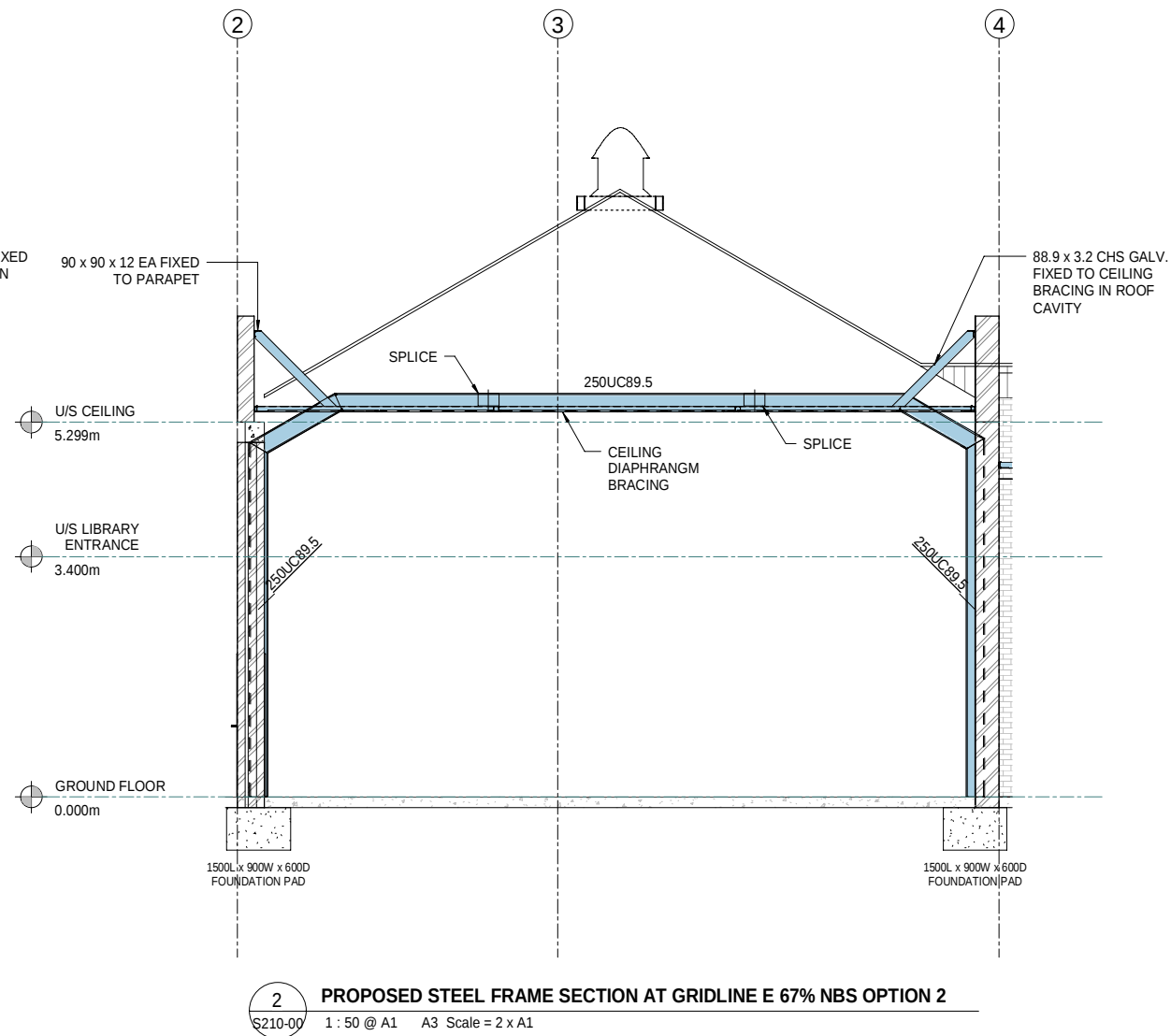


1 PROPOSED ROOF PLAN
1 : 100 @ A1 A3 Scale = 2 x A1

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1 PROPOSED STEEL FRAME SECTION AT GRIDLINE E 67% NBS OPTION 1
S210-0 1 : 50 @ A1 A3 Scale = 2 x A1



2 PROPOSED STEEL FRAME SECTION AT GRIDLINE E 67% NBS OPTION 2
S210-0 1 : 50 @ A1 A3 Scale = 2 x A1

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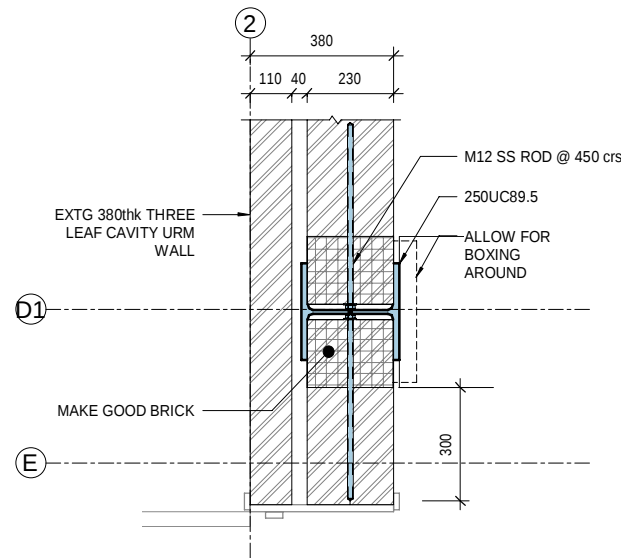
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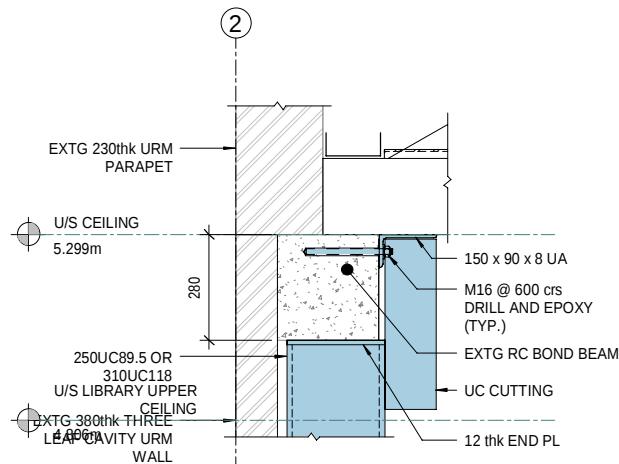
SHEET TITLE
67% NBS
**PROPOSED STEEL
FRAME SECTIONS**

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes
SCALE	1 : 50 @ A1 1 : 100 @ A3		
JOB No.	DWG No.	REVISION	
31542	S230	P2	

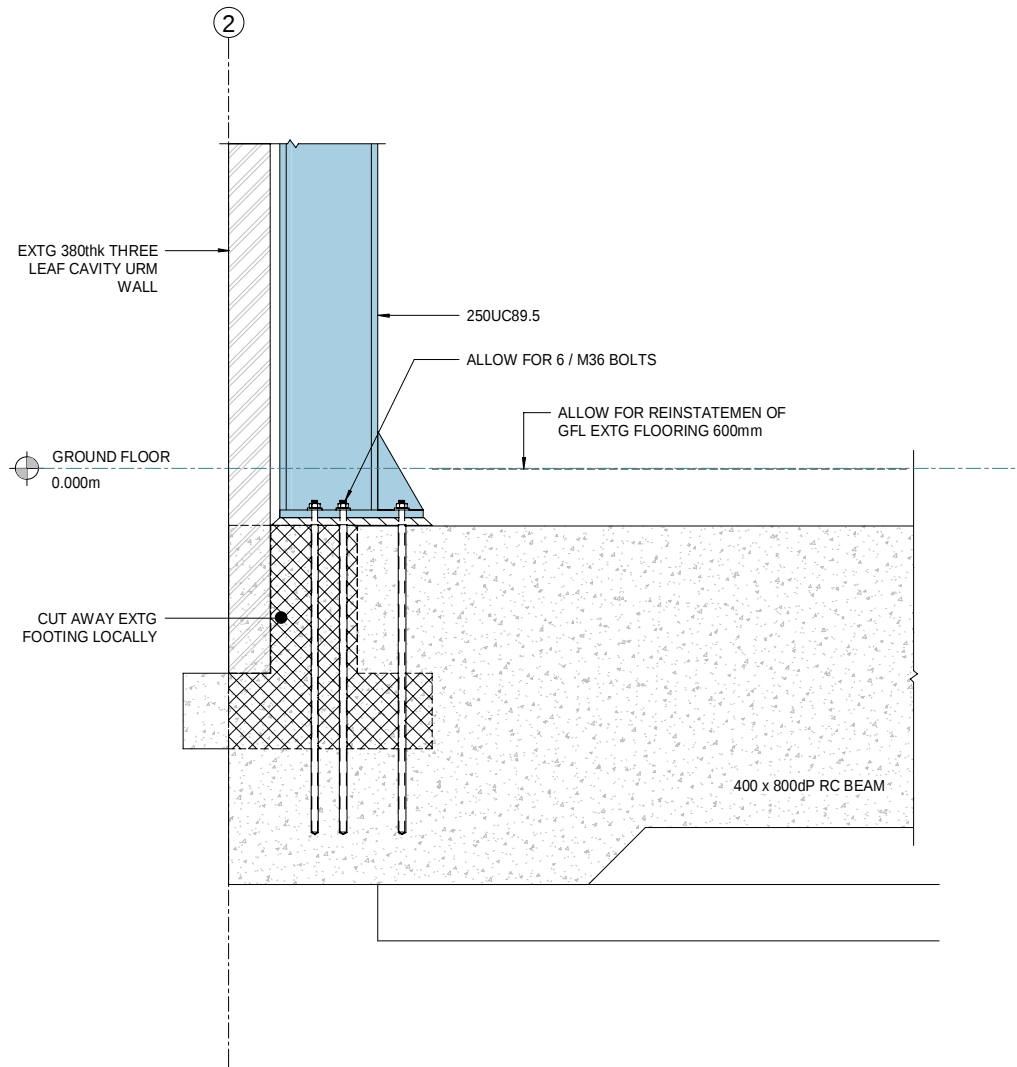
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1 UC TO URM WALL DETAIL
S210-0 1 : 10 @ A1 A3 Scale = 2 x A1



2 UA AND STEEL COL. CAP CONNECTION (TYP.)
S211-0 1 : 10 @ A1 A3 Scale = 2 x A1



3 COL. BASE PLATE CONNECTION DETAIL
S230 1 : 10 @ A1 A3 Scale = 2 x A1

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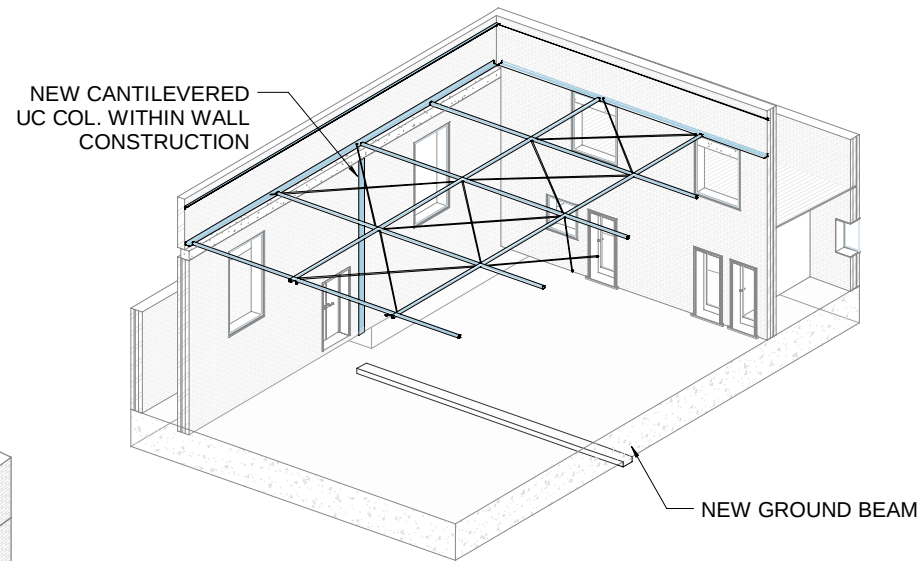
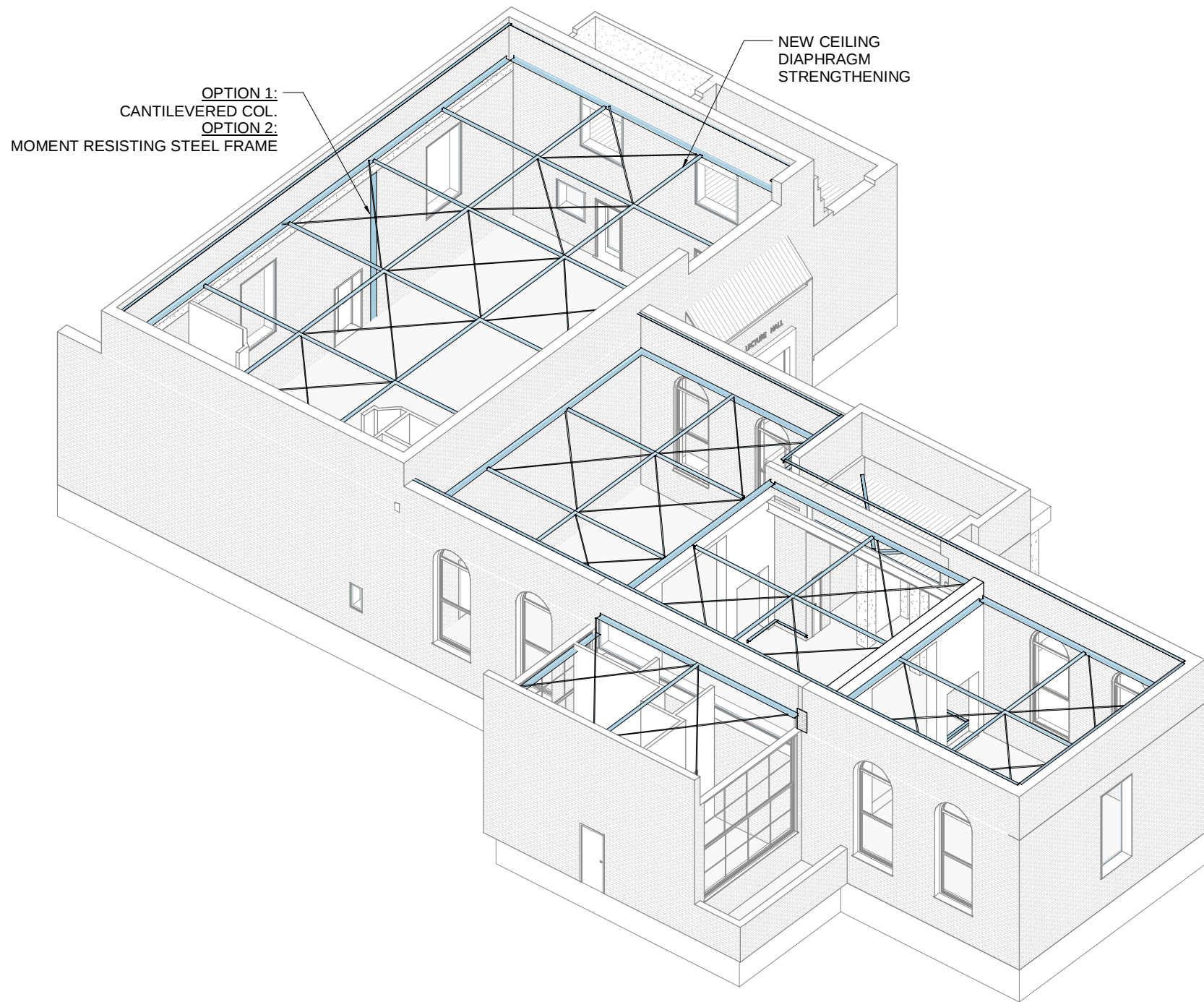
SHEET TITLE
67% NBS
PROPOSED STEEL FRAME DETAILS

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes

SCALE	1 : 10 @ A1 1 : 20 @ A3
-------	----------------------------

JOB No.	DWG No.	REVISION
31542	S250	P2

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SHEET TITLE
67% NBS
PROPOSED 3D VIEWS

DRAWN	G Lai	DESIGNED	C MD
CHECKED	R Knowles	APPROVED	R Stokes

SCALE
N.T.S.

JOB No.	DWG No.	REVISION
31542	S290	P2

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Appendix B :

Engineers Scope of Works