

CHRISTCHURCH CITY COUNCIL OLD MUNICIPAL CHAMBERS FULL RESTORATION DEVELOPED DESIGN

STRUCTURAL DRAWINGS

NOT FOR CONSTRUCTION 04/04/2017

Project No: 6-DP315.20

OPUS

www.opus.co.nz

Opus International Consultants Ltd

Christchurch Office

12 Moorhouse Avenue PO Box 1482, Christchurch Mail Centre, Christchurch 8140

Tel: +64 3 363 5400

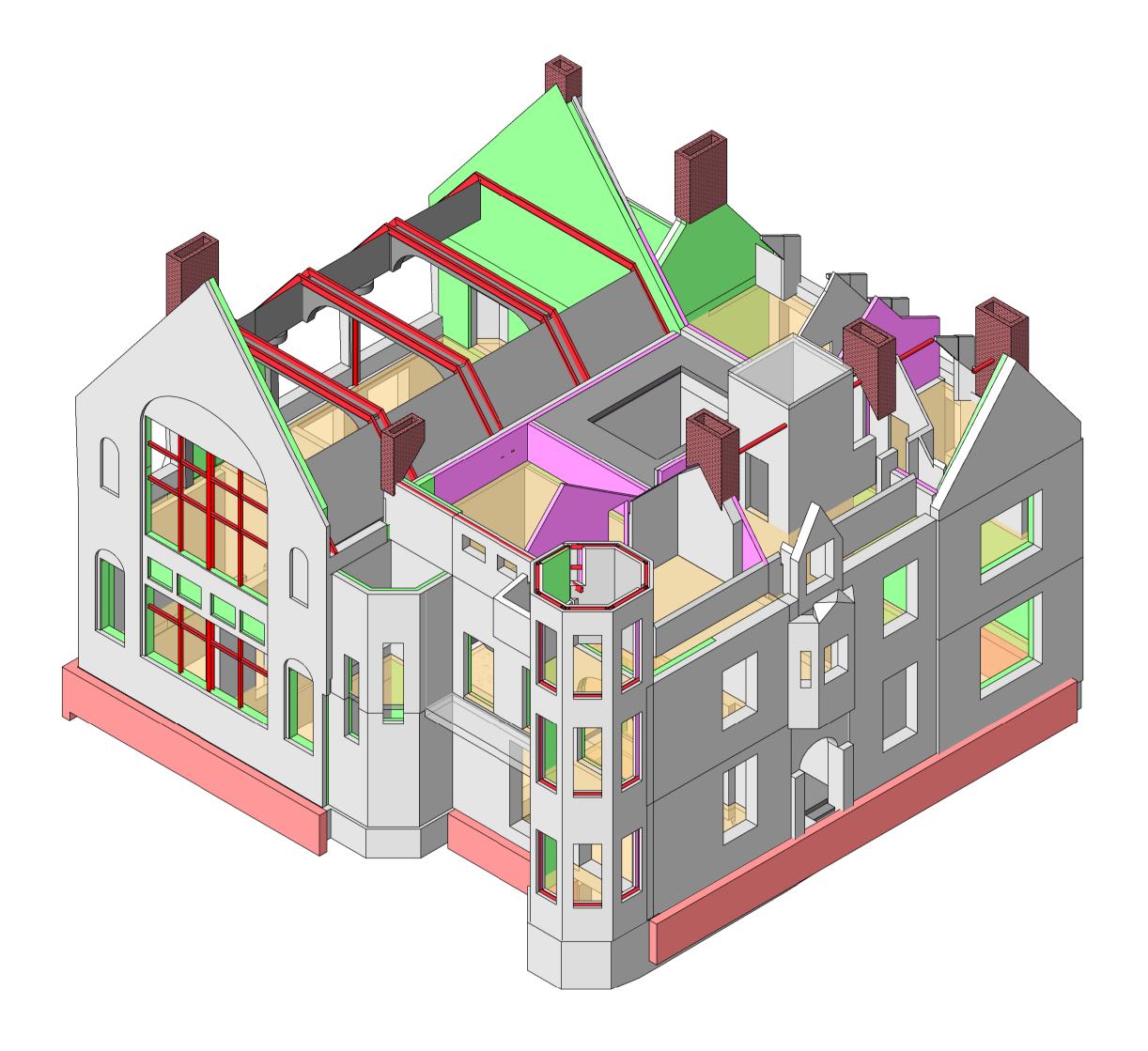
PROJECT No.	6-DP315.20
TASK No.	STRU1
SHEET No.	1

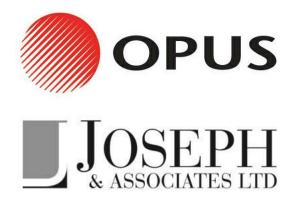
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CHRISTCHURCH CITY COUNCIL	MONTH	02	03	04									
OLD MUNICIPAL CHAMBERS - FULL RESTORATION	YEAR	17	17	17									
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DRAWING No.	SIZE	DRAWING TITLE	REV	/ISIO	N					
S001	A1	INDEX	Α	В	В					
S100	A1	FOUNDATIONS LAYOUT								
S101	A1	GROUND FLOOR	Α	В	В					
S102	A1	FIRST FLOOR	Α	В	С					
S103	A1	SECOND FLOOR	Α	В	С					
S104	A1	SECOND FLOOR CEILING	Α	В	С					
S105	A1	ROOF	Α	В	С					
S200	A1	CROSS SECTIONS 1	Α	В	С					
S201	A1	CROSS SECTIONS 2	Α	В	С					
S202	A1	CROSS SECTIONS 3	Α	В	В					
S203	A1	CROSS SECTIONS 4	Α	В	С					
S204	A1	CROSS SECTIONS 5		В	С					
S205	A1	CROSS SECTIONS 6		В	С					
S206	A1	CROSS SECTIONS 7	Α	В	В					
S207	A1	CROSS SECTIONS 8		В	С					
S300	A1	FOUNDATION DETAILS	*	В	С					
S400	A1	TURRET DETAILS	Α	В	В					
S500	A1	TIMBER DETAILS AND SCHEDULES	*	В	С					
S600	A1	CHAMBER ROOF DETAILS AND STEELWORK SCHEDULES	*	В	С					
S700	A1	CONCRETE SHEAR WALL DETAILS AND SCHEDULES	*	В	В					
	*	NOTE: THESE SHEETS WERE ISSUED AS HAND DRAWN SKETCHES.								

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Environmental consult															
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APPROVED BY :		W.	PARKER												

SHEET NO.	SHEET NAME
S001	INDEX
S100	FOUNDATIONS LAYOUT
S101	GROUND FLOOR
S102	FIRST FLOOR
S103	SECOND FLOOR
S104	SECOND FLOOR CEILING
S105	ROOF
S200	CROSS SECTIONS
S201	CROSS SECTIONS
S202	CROSS SECTIONS
S203	CROSS SECTIONS
S204	CROSS SECTIONS
S205	CROSS SECTIONS
S206	CROSS SECTIONS
S207	CROSS SECTIONS
S300	FOUNDATION DETAILS
S400	TURRET DETAILS
S500	TIMBER DETAILS & SCHEDULES
S600	CHAMBER ROOF DETAILS & STEELWORK SCHEDULES
S700	CONCRETE SHEAR WALL DETAILS & SCHEDULES







DO NOT SCALE

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING ANY WORK.

ALL STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, FIRE, MECHANICAL & ELECTRICAL DRAWINGS.

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REVISIONS

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NOTES

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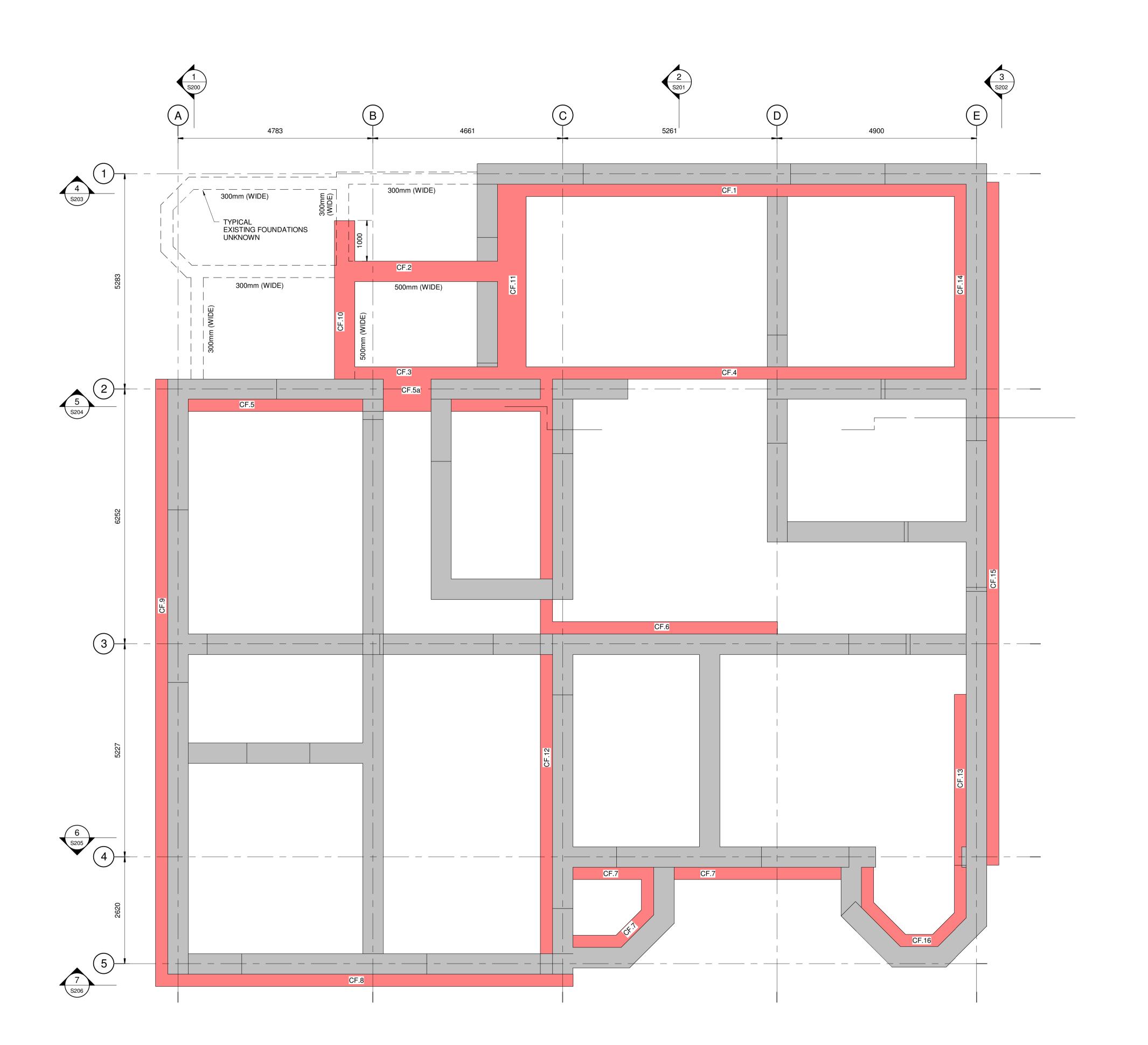
OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

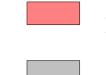
FULL RESTORATION **DEVELOPED DESIGN**

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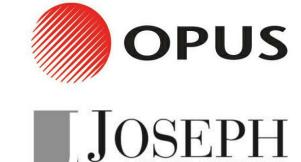


<u>NOTE</u>

CF = NEW CONCRETE FOUNDATION CW = NEW CONCRETE WALL C = NEW STEEL COLUMN

TW = NEW TIMBER WALL

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24/02/2017

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- 3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
- 4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
- 5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND **DETAILS**
- 6. ALL EXISTING BRICK PILES ARE TO BE REPLACED WITH TIMBER ORDINARY PILES IN ACCORDANCE WITH NZS3604



OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

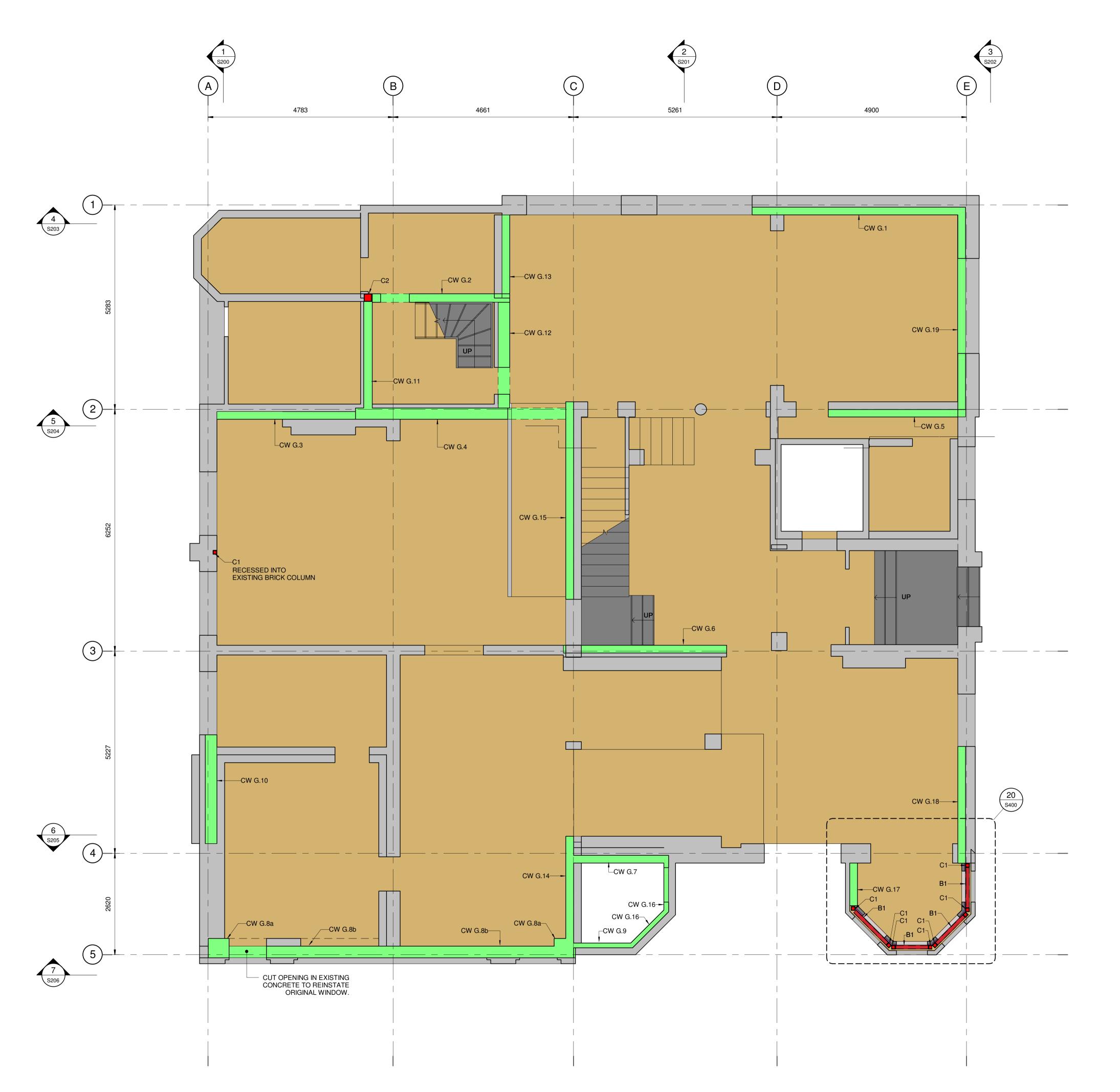
FULL RESTORATION **DEVELOPED DESIGN**

FOUNDATIONS LAYOUT

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STRUCTURAL





NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700

EXISTING WALLS WIDTH VARIES



NEW STEEL ELEMENTS. REFER TO SHEET S600.

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION **DEVELOPED DESIGN**

GROUND FLOOR

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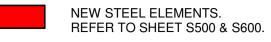
STRUCTURAL





NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700

EXISTING WALLS WIDTH VARIES



NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF FLOOR JOISTS. REFER TO SCHEDULE FOR DETAILS

NEW TIMBER CONSTRUCTION.

NOTE

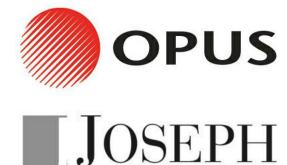
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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

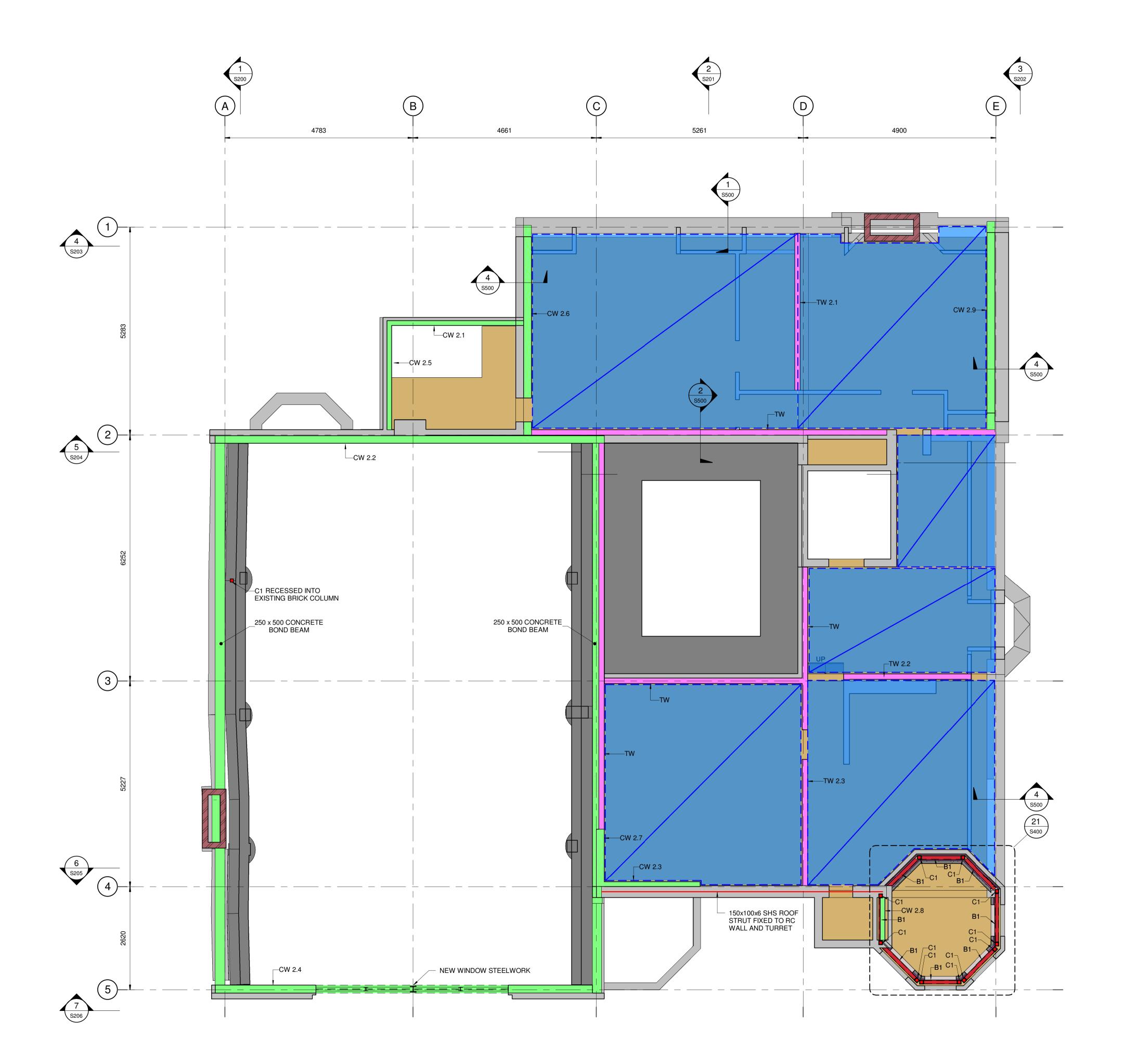
FULL RESTORATION DEVELOPED DESIGN

FIRST FLOOR

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S102 STRUCTURAL





NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700

EXISTING WALLS WIDTH VARIES



NEW STEEL ELEMENTS. REFER TO SHEET S600.



NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF FLOOR JOISTS. REFER TO SCHEDULE FOR DETAILS



NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

NOTE

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

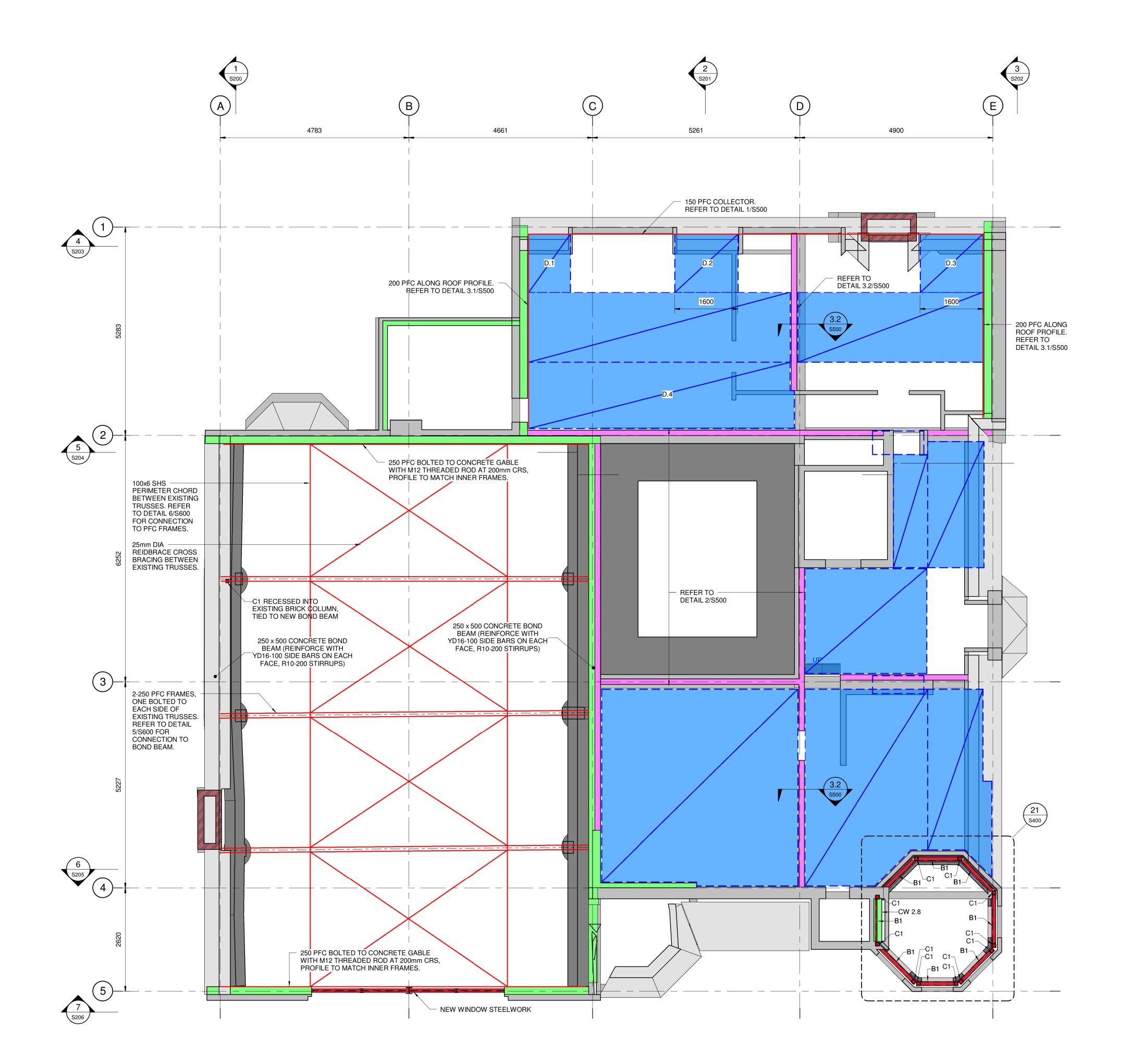
FULL RESTORATION **DEVELOPED DESIGN**

SECOND FLOOR

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S103 STRUCTURAL





NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700

EXISTING WALLS WIDTH VARIES



NEW STEEL ELEMENTS. REFER TO SHEET S600.



NEW PLYWOOD DIAPHRAGM FIXED TO UNDERSIDE OF CEILING FRAMING. REFER TO SCHEDULE FOR DETAILS



NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

NOTE

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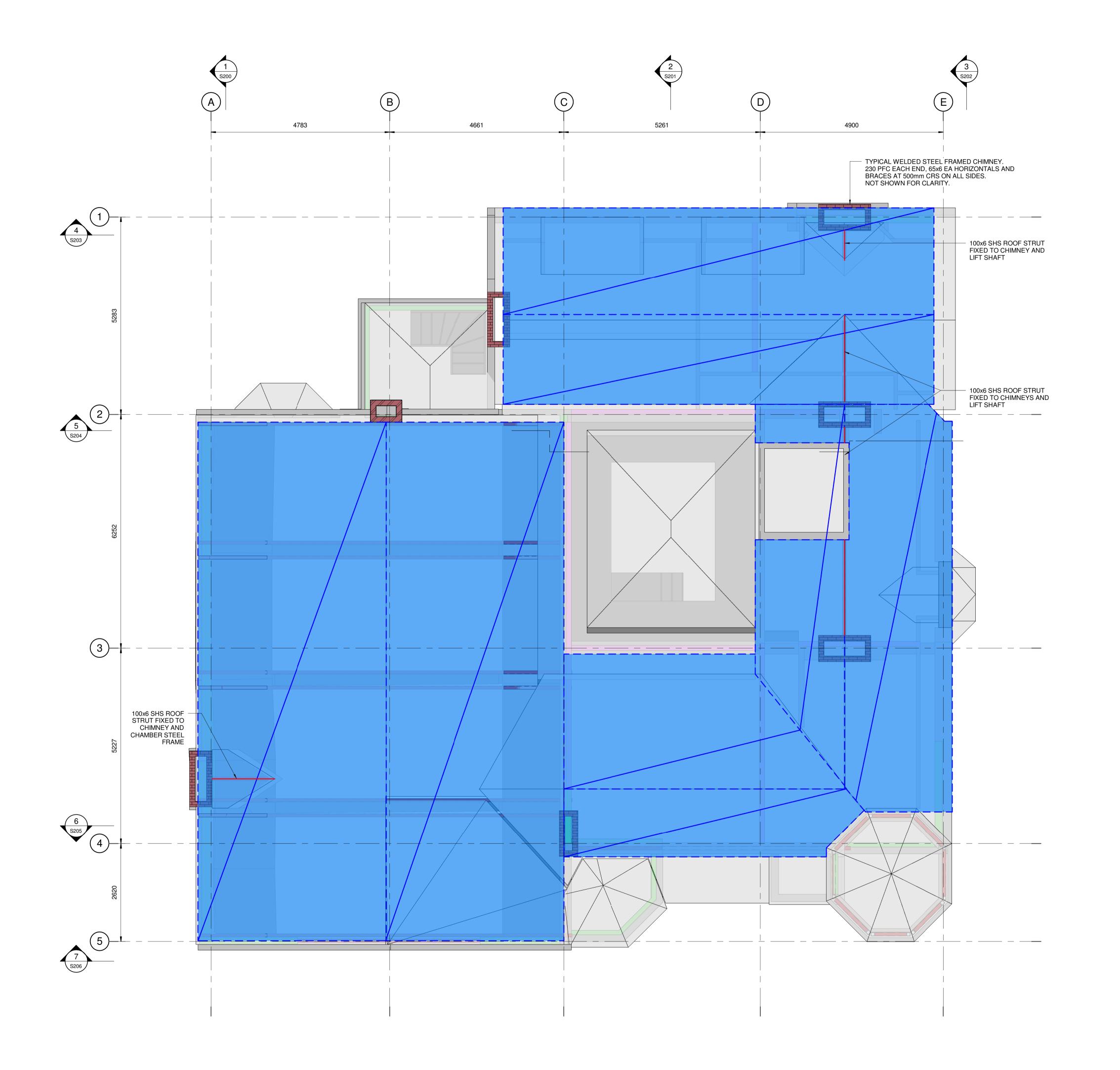
OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION DEVELOPED DESIGN

SECOND FLOOR CEILING

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EXISTING WALLS WIDTH VARIES



NEW PLYWOOD DIAPHRAGM FIXED TO TOP OF ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

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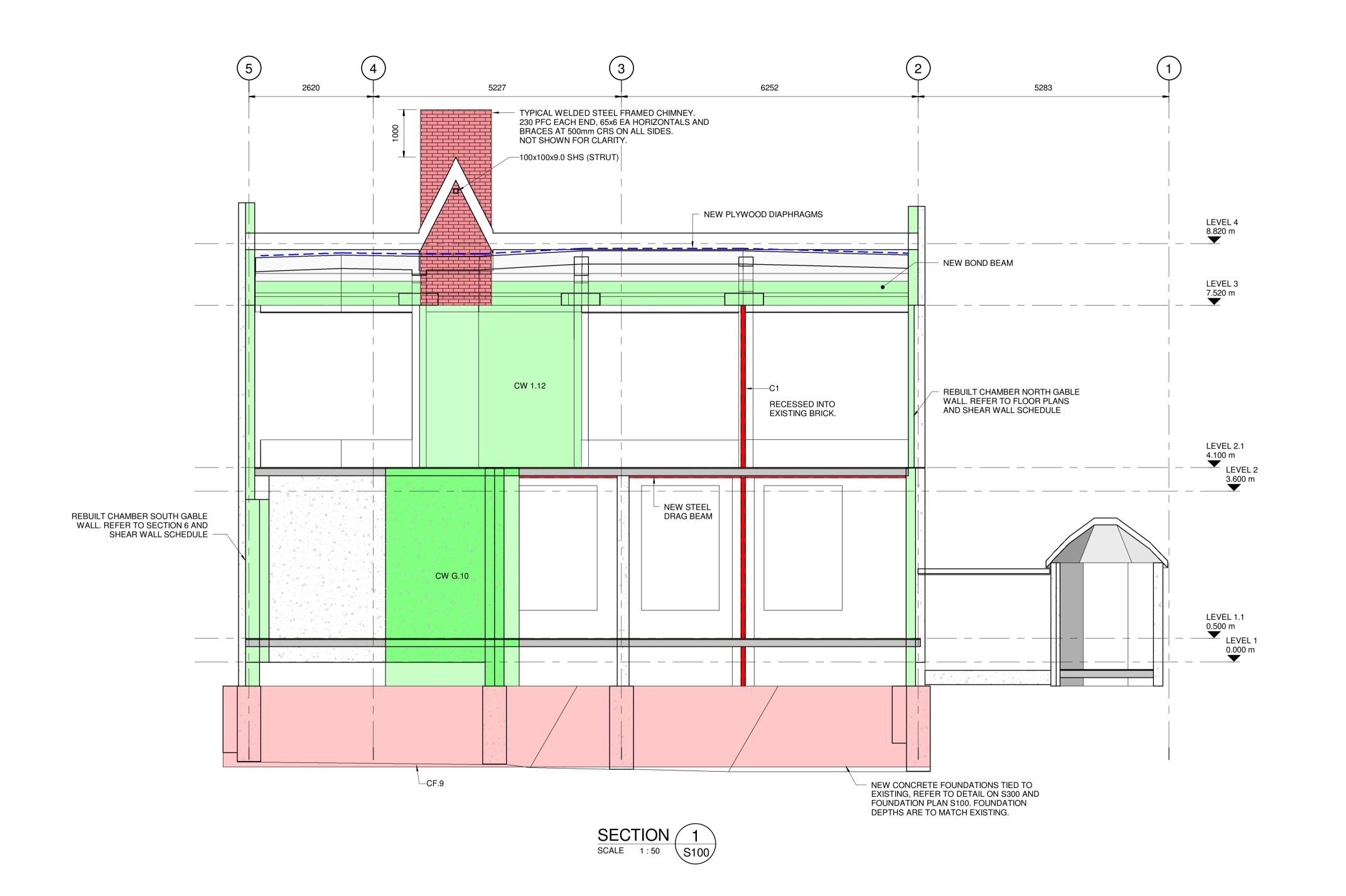
OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION **DEVELOPED DESIGN**

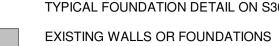
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Revision		Sheet No.	
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NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300









 NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

NOTE

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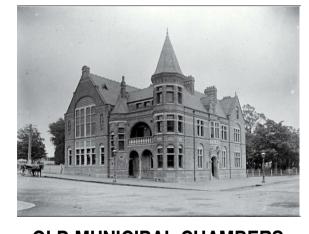
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- 5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND DETAILS



OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

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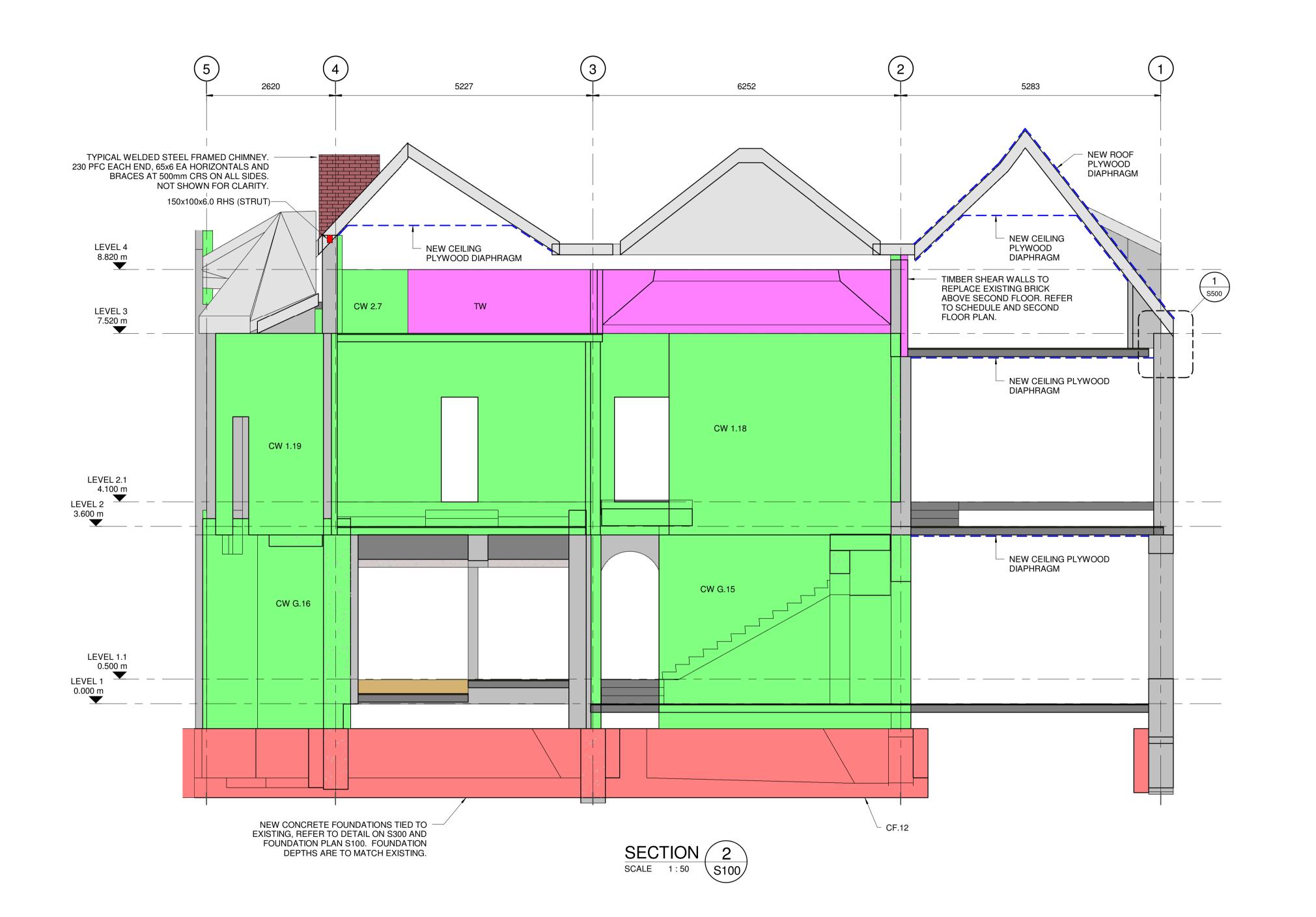
FULL RESTORATION
DEVELOPED DESIGN

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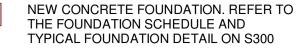
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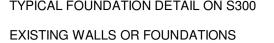
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NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700



NEW STEEL ELEMENTS. REFER TO SHEET S600.



NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

 NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

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- CONCRETE SHEAR WALL SCHEDULE AND DETAILS

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- 4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND DETAILS
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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

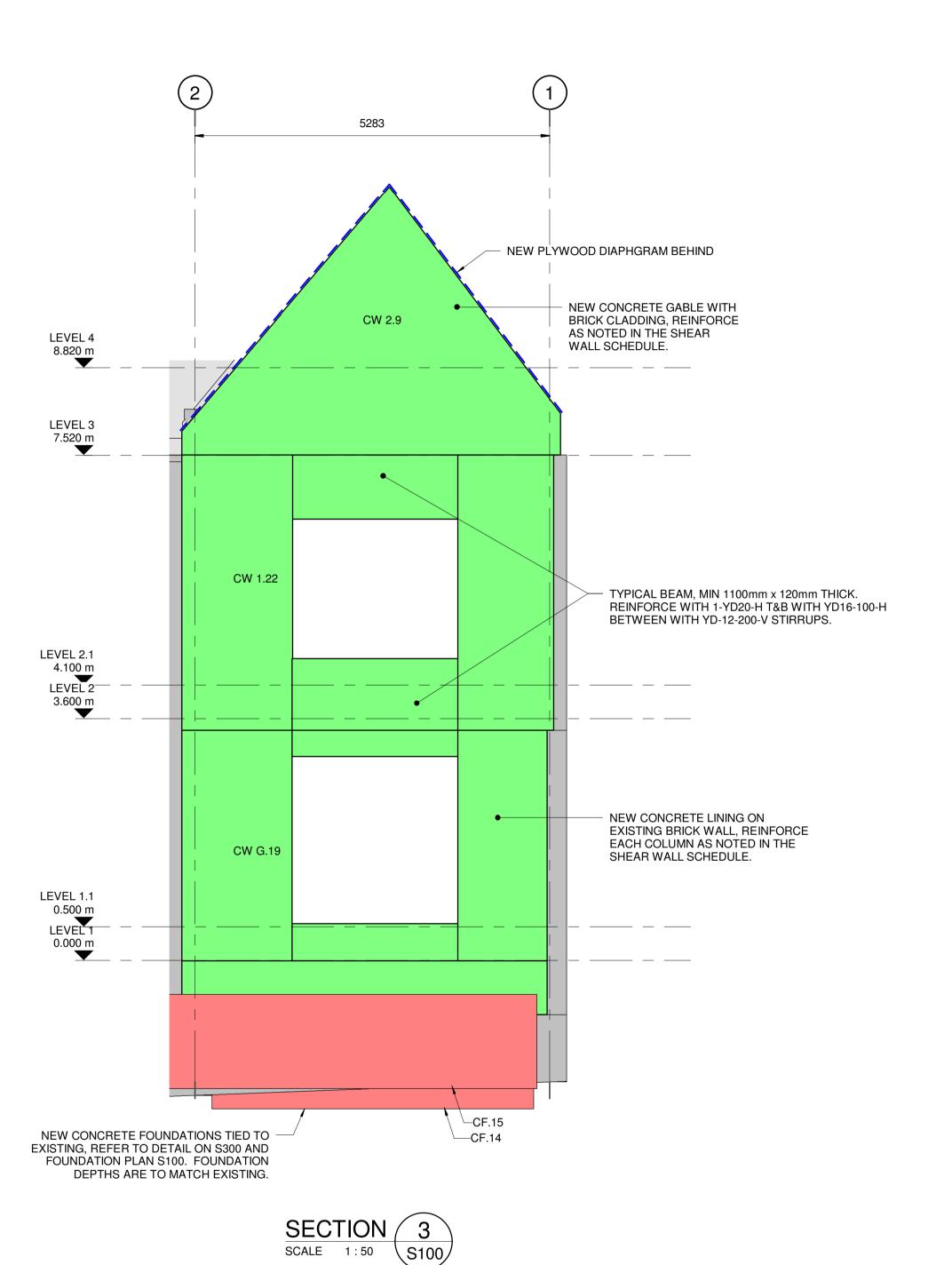
FULL RESTORATION **DEVELOPED DESIGN**

CROSS SECTIONS

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STRUCTURAL







NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300



EXISTING WALLS OR FOUNDATIONS



NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700



NEW STEEL ELEMENTS. REFER TO SHEET S600.



NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.

 — — NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING.

REFER TO SCHEDULE FOR DETAILS

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

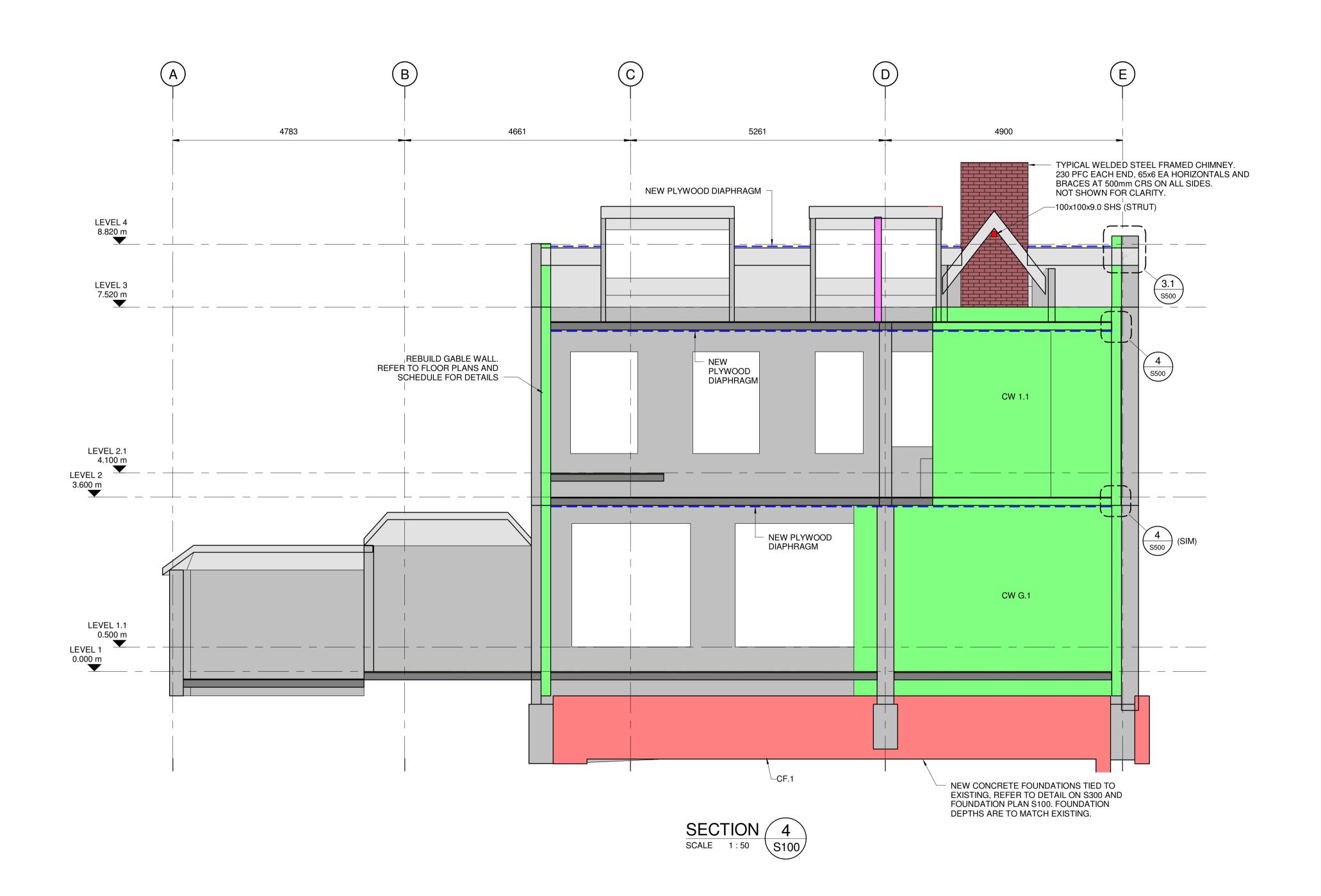
FULL RESTORATION

DEVELOPED DESIGN

CROSS SECTIONS

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EXISTING WALLS OR FOUNDATIONS



NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700



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FULL RESTORATION **DEVELOPED DESIGN**

CROSS SECTIONS

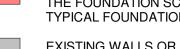
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6-	DP315.20		24/03/2017
Revision		Sheet No.	
	C		S203

STRUCTURAL









EXISTING WALLS OR FOUNDATIONS



NEW CONCRETE WALLS. REFER TO THE SHEAR WALL SCHEDULE AND TYPICAL SHEAR WALL DETAIL ON S700



NEW STEEL ELEMENTS. REFER TO SHEET S600.



NEW TIMBER SHEAR WALLS. REFER TO SCHEDULE FOR DETAILS.



 NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

NOTE

CF = NEW CONCRETE FOUNDATION

CW = NEW CONCRETE WALL

TW = NEW TIMBER WALL

C = NEW STEEL COLUMN

B = NEW STEEL BEAM





DO NOT SCALE

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NOT FOR CONSTRUCTION

04/04/2017

24/03/2017

24/02/2017

REVISIONS

C ISSUED FOR INFORMATION

B ISSUED FOR INFORMATION A ISSUED FOR PRICING

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- 5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND **DETAILS**



OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

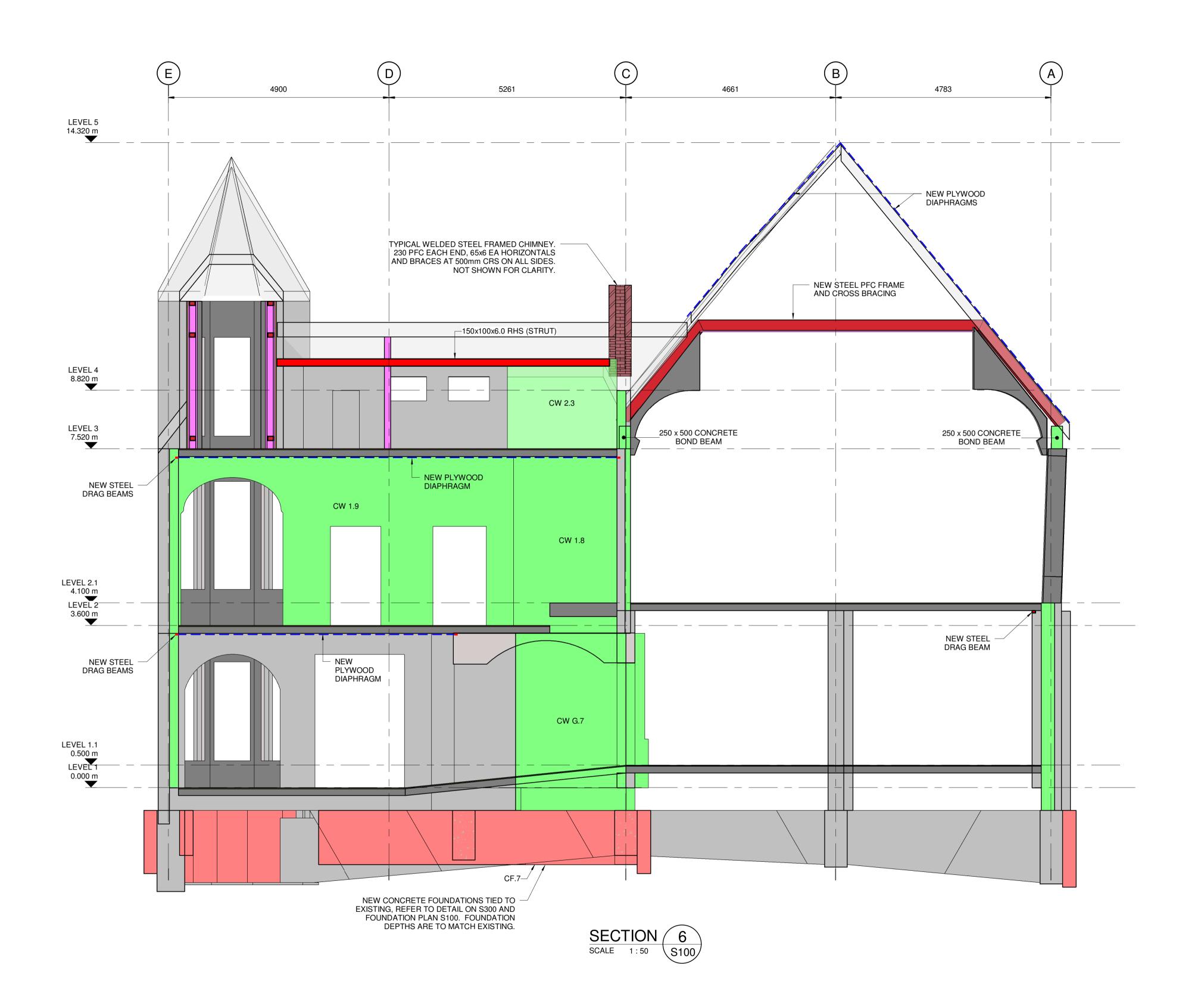
FULL RESTORATION **DEVELOPED DESIGN**

CROSS SECTIONS

Scale			
SCALE	@ A1= 1:	50	
Design	SPT	Verified	
Drawn	SEH	Approved	W
Project No.	-DP315.20	Issue Date	24/03/20
Revision		Sheet No.	
	С		S20

STRUCTURAL











EXISTING WALLS OR FOUNDATIONS



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24/03/2017 24/02/2017

04/04/2017

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

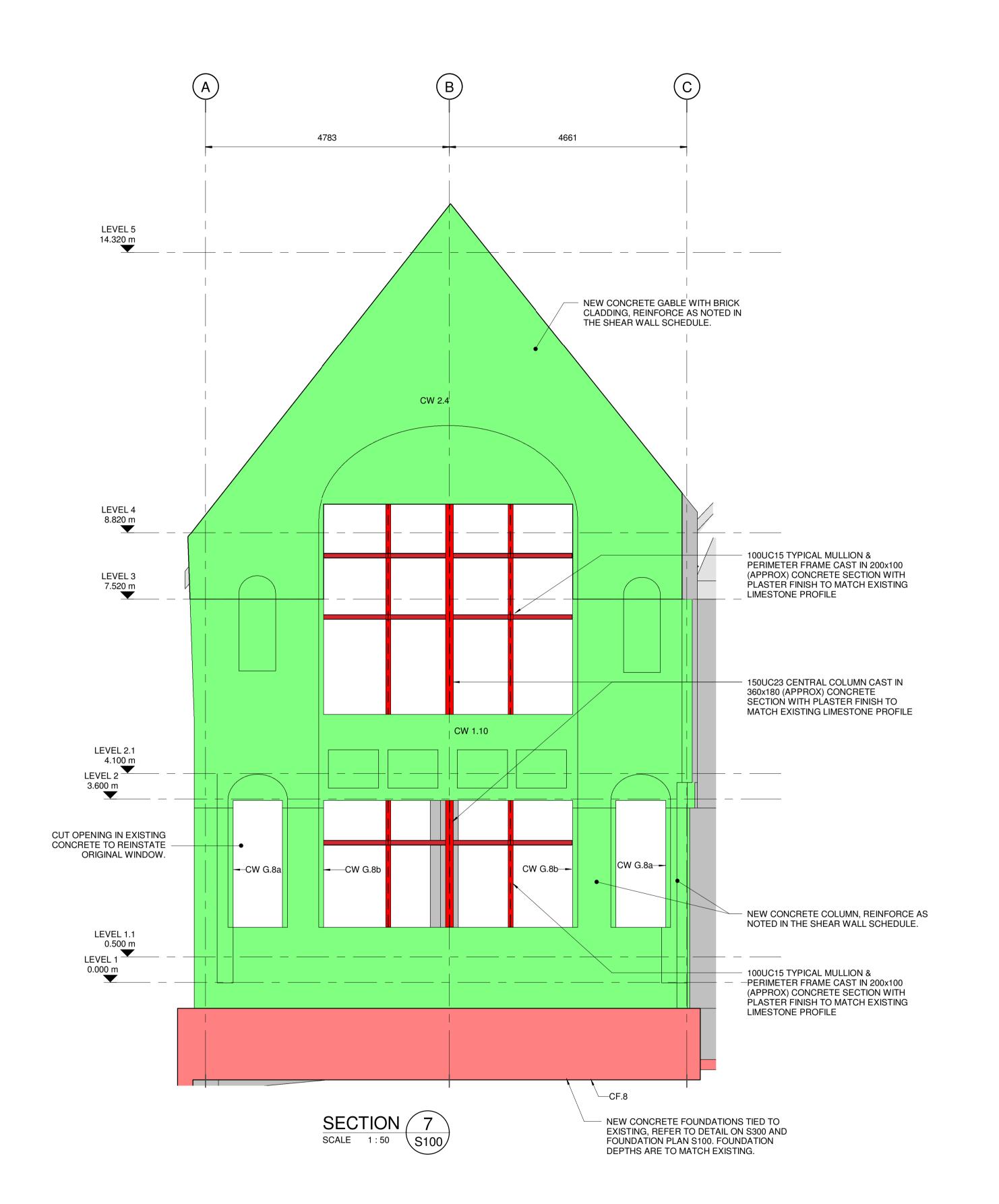
FULL RESTORATION **DEVELOPED DESIGN**

CROSS SECTIONS

Scale			
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Design	SPT	Verified	SC
Drawn	SEH	Approved	WRF
Project No.		Issue Date	
6	-DP315.20		24/03/2017
Revision		Sheet No.	
	С		S205

STRUCTURAL









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NEW PLYWOOD DIAPHRAGM FIXED
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REFER TO SCHEDULE FOR DETAILS

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24/03/2017

24/02/2017

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION DEVELOPED DESIGN

CROSS SECTIONS

Scale			
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Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
Project No.		Issue Date	
6-	DP315.20		24/03/2017
Revision		Sheet No.	
	В		S206

STRUCTURAL



PLYWOOD ROOF DIAPHRAGM, REFER TO SCHEDULE AND ROOF PLAN FOR DETAILS AND EXTENT. 25mm DIAMETER REIDBRACE CROSS BRACING BETWEEN PFC FRAMES. STANDARD REID CONNECTIONS AT EACH END. 100x6 SHS PERIMETER CHORD BOLTED TOGETHER THROUGH EXISTING TRUSSES. REFER TO DETAIL 6/S600 250PFC FRAME BOLTED TOGETHER ON EACH SIDE OF EXISTING TRUSSES. PROVIDE ADDITIONAL TIMBER BLOCKING AS REQUIRED. REMOVE EXISTING STEEL TIE - CONNECTION BETWEEN STEEL FRAME AND CONCRETE BOND BEAM. REFER TO DETAIL 5/S600 NEW 250x500 CONCRETE BOND BEAM EACH SIDE OF CHAMBER. REFER TO SECOND FLOOR PLAN FOR DETAILS. **CHAMBER ROOF SECTION**

LEGEND

NEW CONCRETE FOUNDATION. REFER TO THE FOUNDATION SCHEDULE AND TYPICAL FOUNDATION DETAIL ON S300



EXISTING WALLS OR FOUNDATIONS



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TO SCHEDULE FOR DETAILS.

NEW TIMBER SHEAR WALLS. REFER

 NEW PLYWOOD DIAPHRAGM FIXED TO FLOOR JOISTS & ROOF FRAMING. REFER TO SCHEDULE FOR DETAILS

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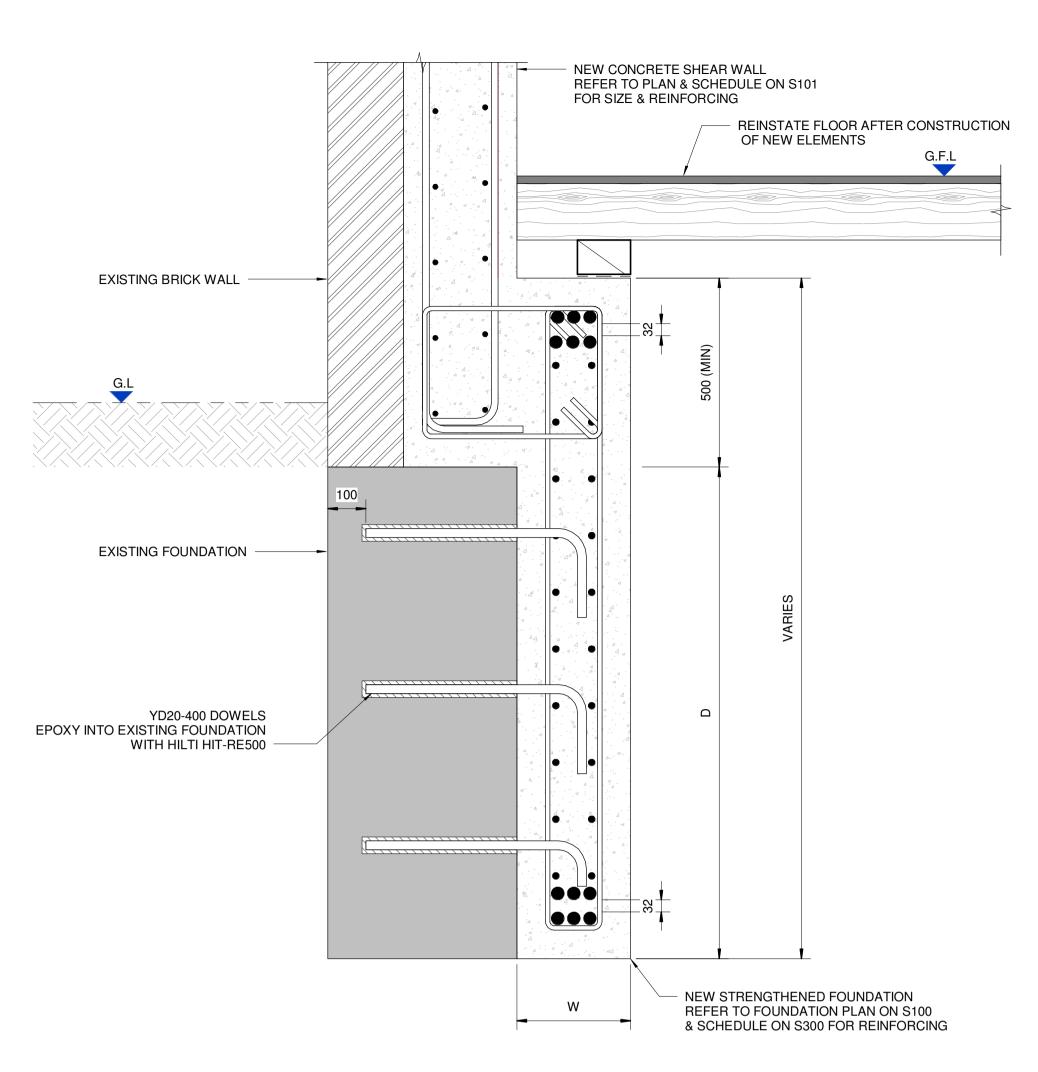
OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION DEVELOPED DESIGN

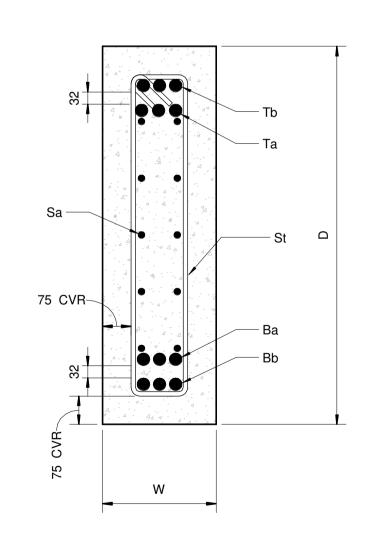
CROSS SECTIONS

SCALE @ A1= As indicated 6-DP315.20 24/03/2017





TYPICAL STRENGTHENED FOUNDATION



	FOUNDATION BEAM REINFORCING SCHEDULE								
					REINF.	REINF.	REINF.	REINF.	
BEAM MARK	WIDTH	DEPTH	REINF. St	REINF. Sa		Bb	Ta	Tb	COMMENT
CF.1	300	1300	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.2	500	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32		4-YD32		NEW FOUNDATION. EXISTING FOUNDATION UNKNOWN - ALLOW TO REPLACE WITH NEW
CF.3	300	1600	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION. ALLOW TO EPOXY AND INFILL WITH ADDITIONAL REINFORCING WHERE EXISTING DRAWINGS INDICATE OPENING IN FOUNDATIONS
CF.4	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.5	300	1200	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.5a	500	1200	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	4-YD32	4-YD32	4-YD32	TIED TO EXISTING FOUNDATION
CF.6	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32		3-YD32		TIED TO EXISTING FOUNDATION
CF.7	300	1200	R10-200 STIRRUP SETS	YD16-150	3-YD32		3-YD32		TIED TO EXISTING FOUNDATION
CF.8	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.9	300	1700	R10-200 STIRRUP SETS	YD16-150	3-YD32		3-YD32		TIED TO EXISTING FOUNDATION
CF.10	500	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32		4-YD32		NEW FOUNDATION. EXISTING FOUNDATION UNKNOWN - ALLOW TO REPLACE WITH NEW
CF.11	700	1400	2-R10-200 STIRRUP SETS	YD16-150	4-YD32	2-YD32	4-YD32	2-YD32	NEW FOUNDATION
CF.12	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32		3-YD32		TIED TO EXISTING FOUNDATION
CF.13	300	1000	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.14	300	1700	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.15	300	1400	R10-200 STIRRUP SETS	YD16-150	3-YD32	2-YD32	3-YD32	2-YD32	TIED TO EXISTING FOUNDATION
CF.16	300	1600	R10-200 STIRRUP SETS	YD16-150	2-YD32		2-YD32		TIED TO EXISTING FOUNDATION





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04/04/2017

24/03/2017

24/02/2017

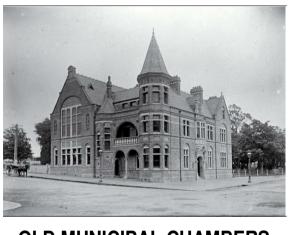
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OLD MUNICIPAL CHAMBERS

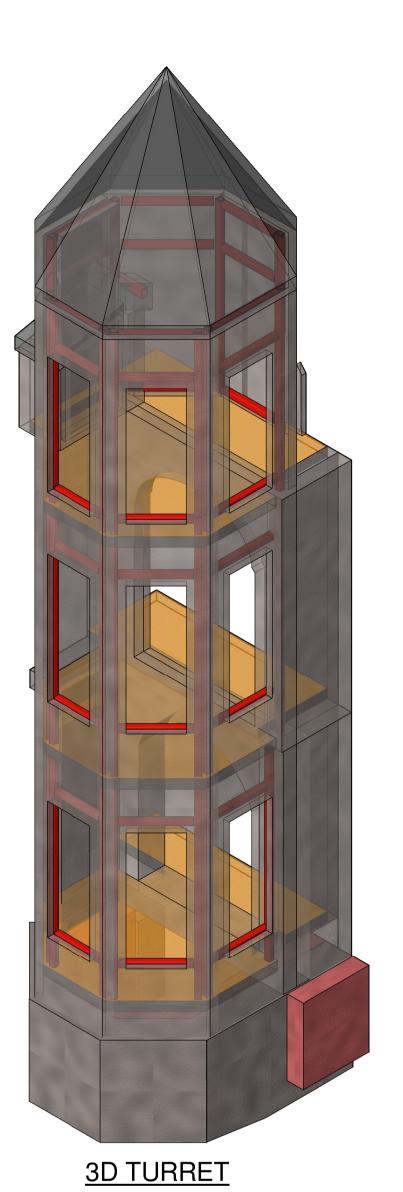
Repairs, Reconstruction & Restoration

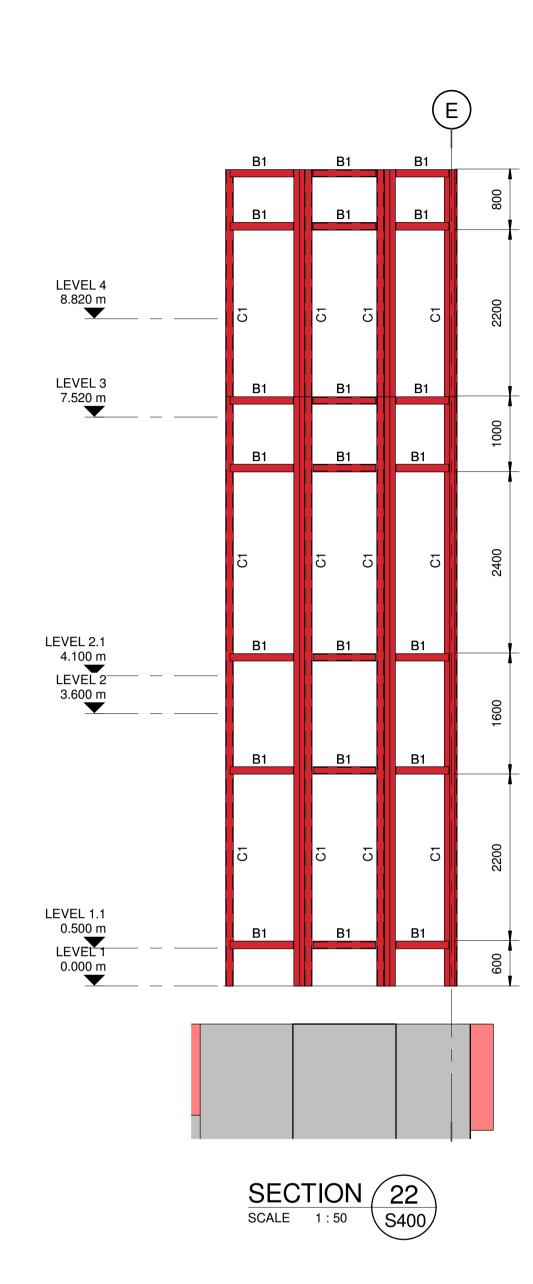
FULL RESTORATION **DEVELOPED DESIGN**

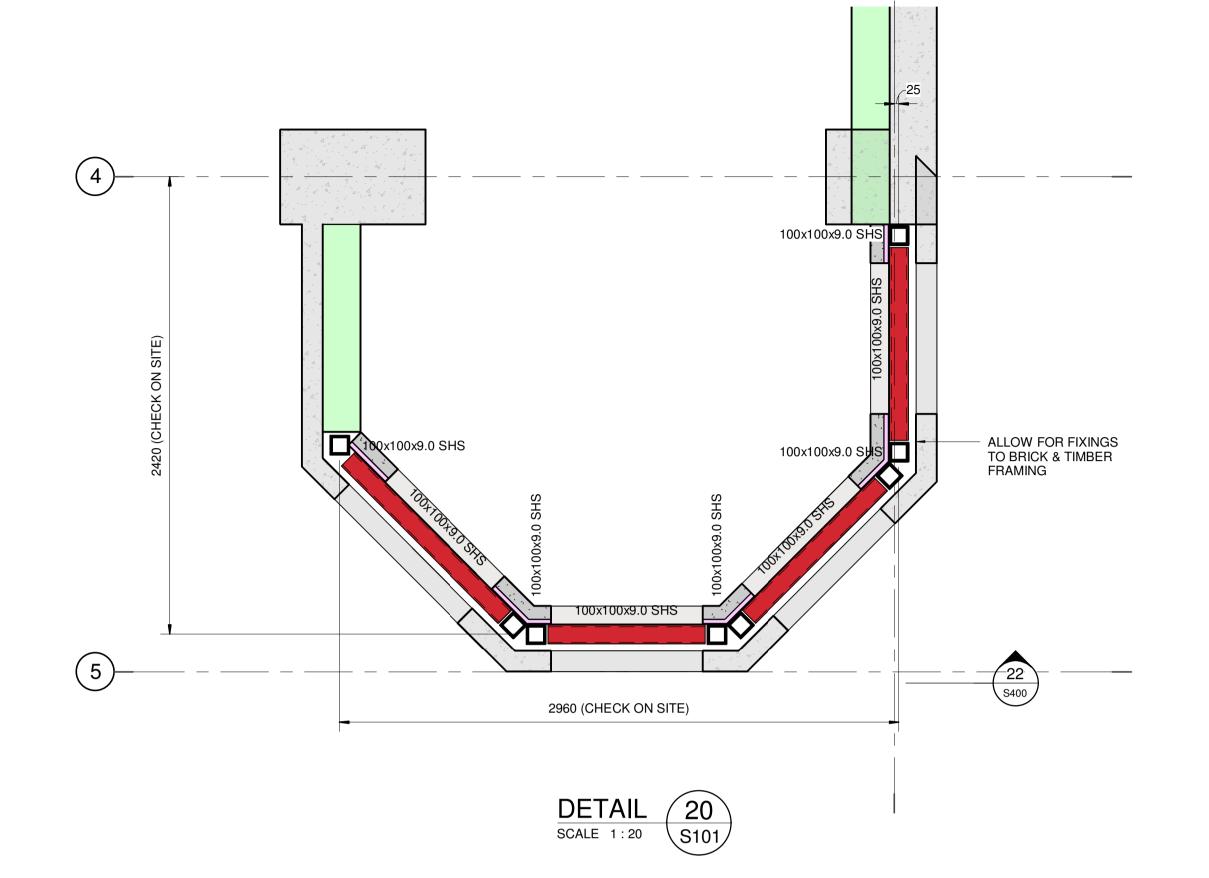
FOUNDATION DETAILS

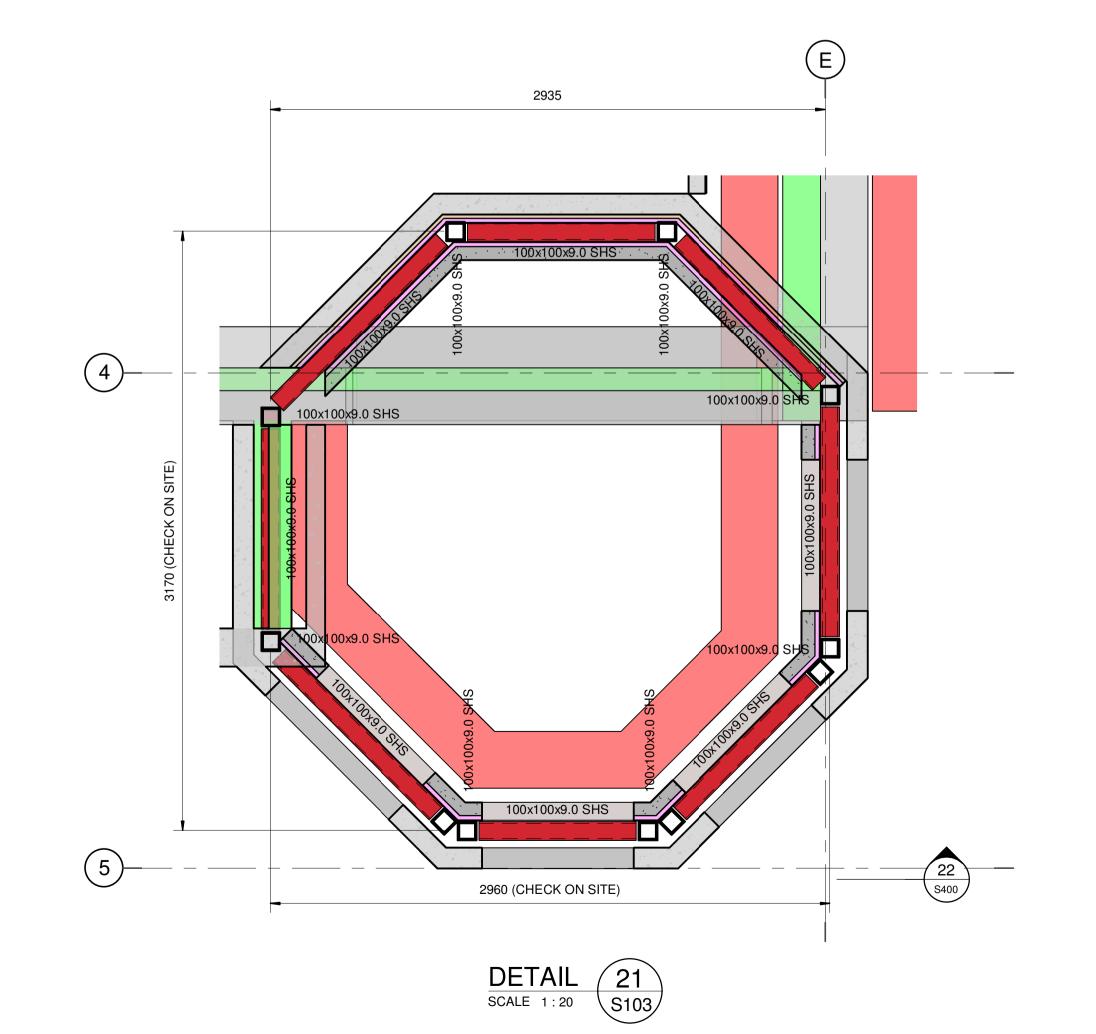
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1	Project No.		Issue Date	
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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

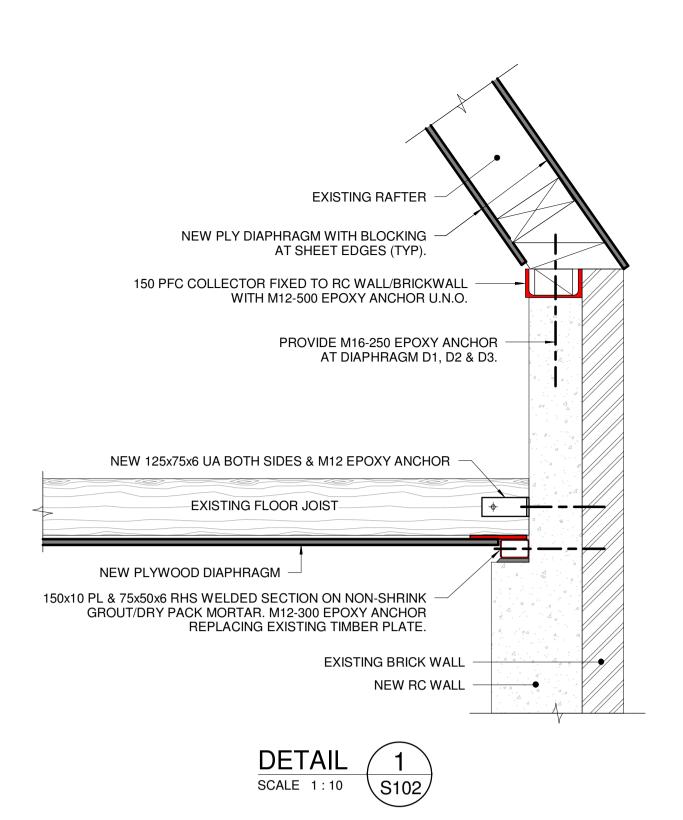
FULL RESTORATION **DEVELOPED DESIGN**

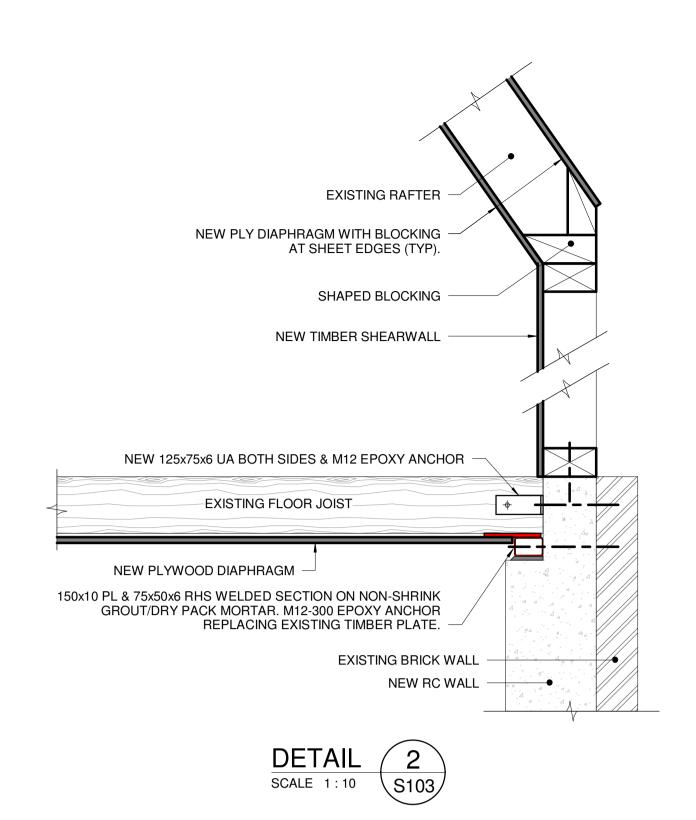
TURRET DETAILS

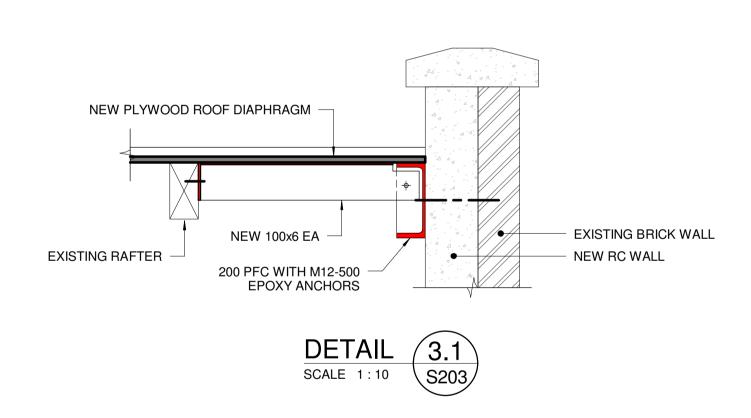
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Design	SPT	Verified	SO
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Project No.		Issue Date	
6	-DP315.20		24/03/2017
Revision		Sheet No.	
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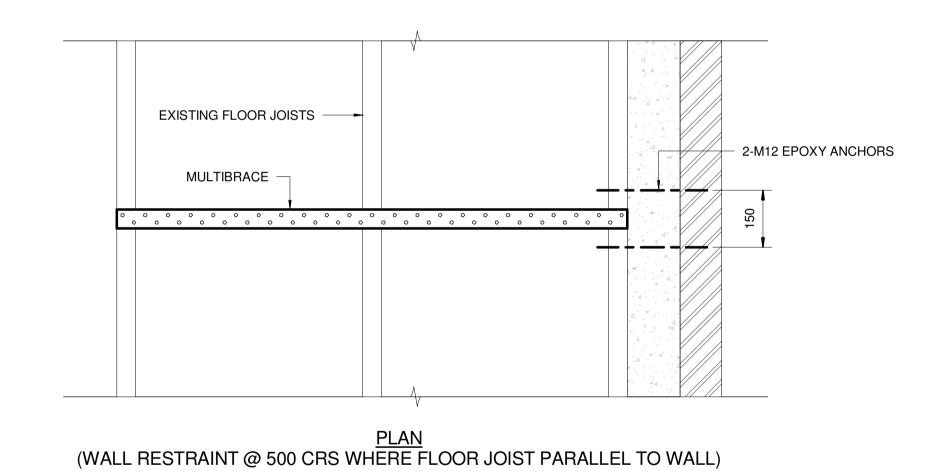
STRUCTURAL

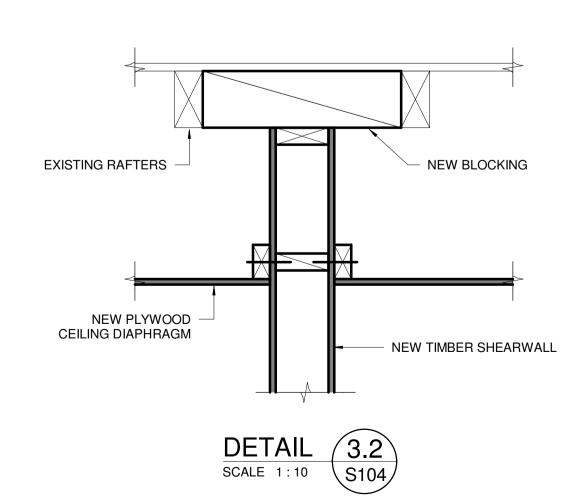


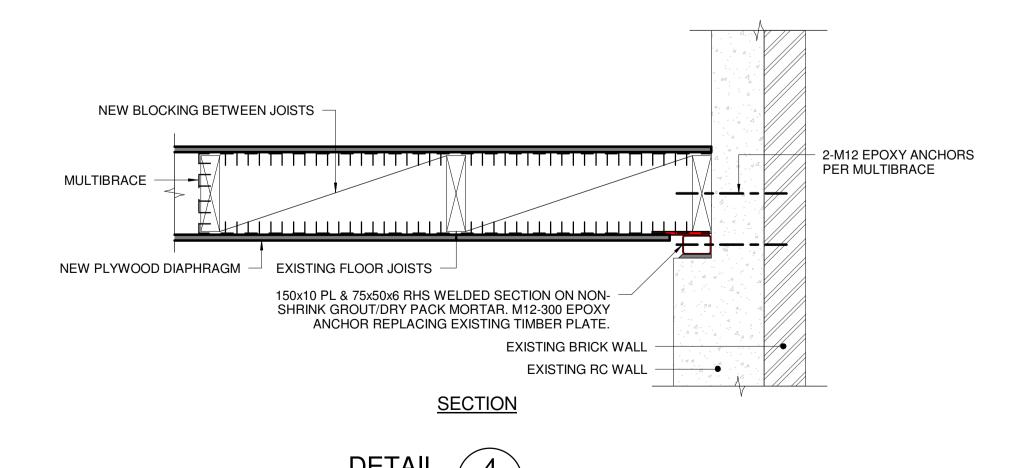












SCALE 1:10 \S102/

DIAPHRAGM SCHEDULE						
MARK	END CHORDS	SHEATHING	NAILING AT SHEET EDGES			
ROOF DIAPHRAG	GM					
TYPICAL U.N.O.	EXISTING OR WHERE DAMAGED REPLACE WITH 150x45 HYSPAN	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 100CRS			
CEILING DIAPHE	RAGM					
TYPICAL U.N.O.	150x45 SG8	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS			
D1, D2, D3	150x90 HYSPAN	15mm PLY, F8 BOTH SIDES	Ø3.15x90 @ 25CRS			
D4	150x90 SG8	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 25CRS			
1ST FLOOR DIAF	PHRAGM					
TYPICAL U.N.O.	REFER DETAIL 1	19mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS			
2ND FLOOR DIA	PHRAGM					
TYPICAL U.N.O.	REFER DETAIL 1	15mm PLY, F8 ONE SIDE	Ø3.15x90 @ 50CRS			

TIMBER SHEAR WALL SCHEDULE							
WALL MARK	END CHORDS	SHEATHING	NAILING @ SHEET EDGES				
TW	140x90mm SG8	15mm PLY, F8, ONE SIDE	Ø3.15X 90 @ 50CRS				
TW 2.1	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS				
TW 2.2	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS				
TW 2.3	140x90mm SG8	15mm PLY, F8, BOTH SIDES	Ø3.15X 90 @ 50CRS				





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- 6. PROVIDE DPC BETWEEN ALL CONCRETE/BRICK & STEEL, TIMBER



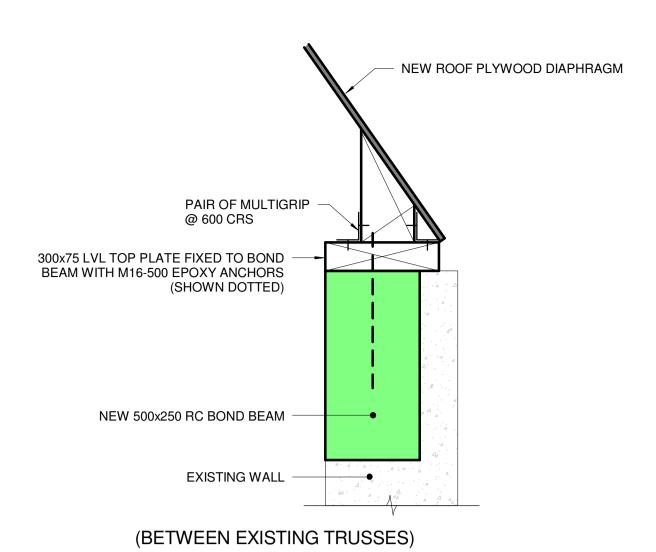
OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

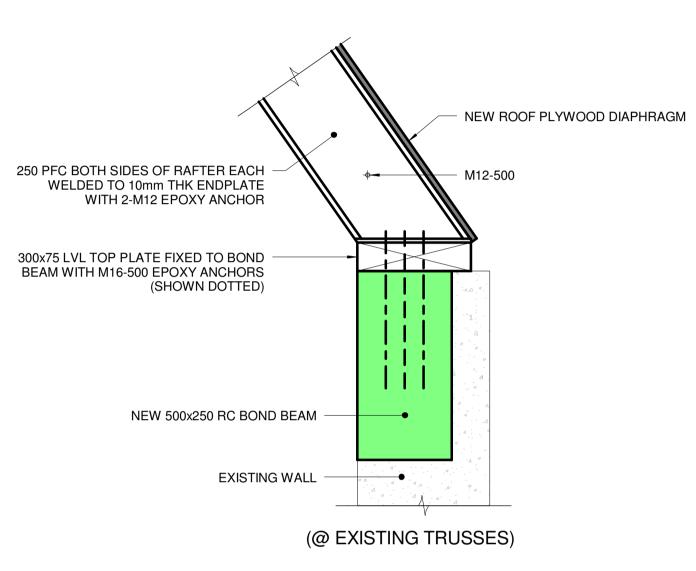
FULL RESTORATION DEVELOPED DESIGN

TIMBER DETAILS & SCHEDULES

SCALE	@ A1= As i	indicated	
Design	SPT	Verified	SO
Drawn	SEH	Approved	WRP
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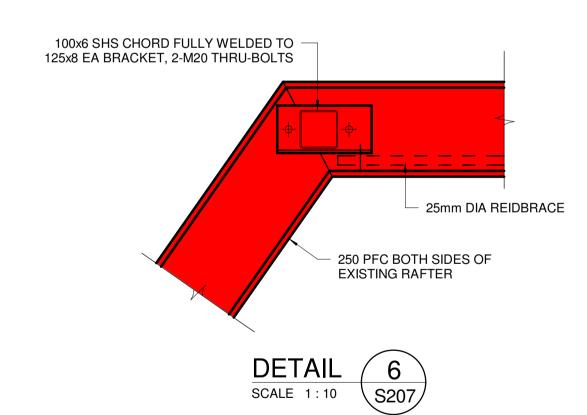




DETAIL (5)

S207

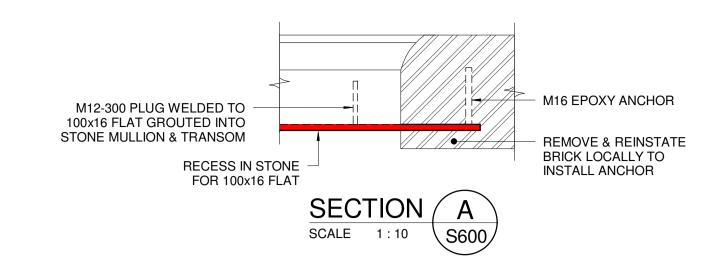
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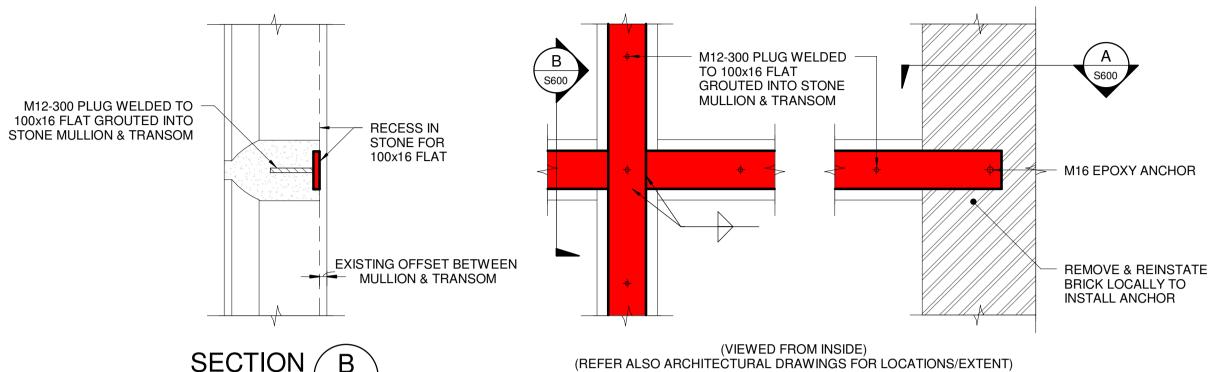


STEEL BEAM SCHEDULE				
BEAM MARK	BEAM TYPE			
B1	100x100x9.0 SHS			

CTEEL COLUMN COLEDUI E				
STEEL COLUMN SCHEDULE				
COLUMN MARK	COLUMN SIZE			
C1	100x100x9.0 SHS			
C2	200x200x9.0 SHS			

NOTE: FOR ALL STEEL MEMBERS ALLOW TO FIX TO EXISTING WITH M12-300 U.N.O.





SCALE 1:10

LIMESTONE WINDOW STRENGTHENING

NOTE: ALL WINDOW STRENGTHENING TO BE WITH STAINLESS STEEL.



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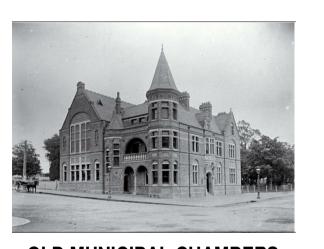
24/03/2017 24/02/2017

04/04/2017

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OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION DEVELOPED DESIGN

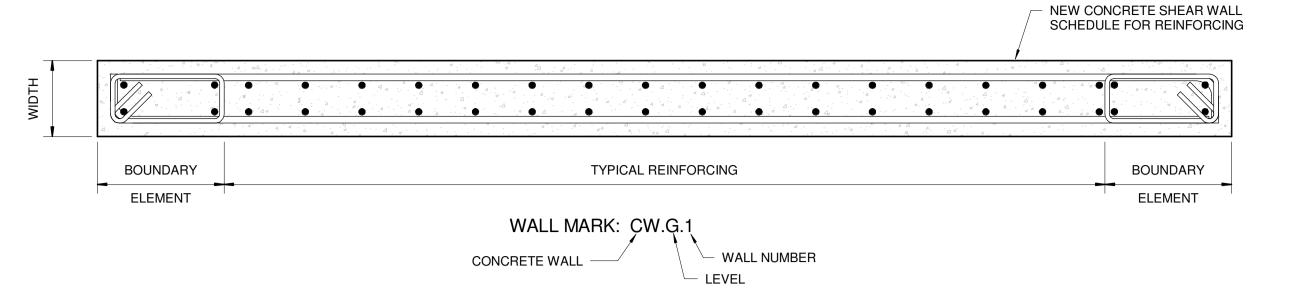
CHAMBER ROOF **DETAILS & STEELWORK** SCHEDULES

SCALE @ A1= 1:10 SO SEH Approved 6-DP315.20 24/03/2017

S600

STRUCTURAL





TYPICAL SHEAR WALL DETAIL

	SHEAR WALL REINFORCING SCHEDULE						
WALL	VAUDTU	MIN		TYPICAL			
MARK CW 1.1	WIDTH 200mm	LENGTH 3900mm	BOUNDARY ELEMENTS 4-YD16-V BOTH ENDS;	REINFORCING YD16-150-V EF;	COMMENTS LINING ON INSIDE FACE OF EXISTING WALL		
CW 1 0	000,000,000	2400000	R10-100-H	YD12-200-H EF	NEW CONCRETE WALL WITH DRICK VENEED, A DOLINDARY		
CW 1.2	200mm	3400mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER. 4 BOUNDARY ELEMENTS REQUIRED - EACH SIDE OF WINDOWS		
CW 1.3	120mm	3600mm		YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL CONTINUE ~300mm AROUND CORNER ON GRID A		
CW 1.4	200mm	700mm	4-YD16-V WEST END ONLY; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL TIED INTO ADJACENT WALL		
CW 1.5	200mm	5400mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW WALL, NO BRICK VENEER		
CW 1.6	120mm	4600mm		YD16-150-V EF; YD12-200-H EF	LINING ON ONE FACE OF EXISTING WALL		
CW 1.7	200mm	5000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON ONE FACE OF EXISTING WALL. CONTINUE WALL OVER WINDOW AND TIE INTO EXISTING CONCRETE ARCH. PROVIDE BOUNDARY ELEMENT ON EACH SIDE OF DOORWAY		
CW 1.8	200mm	2500mm		YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL		
CW 1.9	120mm	7500mm		YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL AROUND OPENINGS		
CW 1.10	200mm	4000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; R10-200-H EF	NEW WALL FRAME. 4 BOUNDARY ELEMENTS REQUIRED - EACH END OF EACH 2.0m WALL		
CW 1.11	120mm	2800mm		YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER. INCLUDES DIAGONAL RETURN AROUND STAIRS		
CW 1.12	200mm	4000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	REBUILD EXISTING CHIMNEY AND CONTINUE WALL ALONG TO WINDOW		
CW 1.13	200mm	2900mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER		
CW 1.14	200mm	2900mm	4-YD16-V SOUTH END ONLY; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER		
CW 1.15	200mm	2200mm	4-YD16-V NORTH END ONLY; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL		
CW 1.16	200mm	1200mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON CHAMBER SIDE OF EXISTING WALL		
CW 1.17	120mm	8100mm		YD16-150-V; YD12-200-H	LINING ON CHAMBER SIDE OF EXISTING WALL		
CW 1.18	200mm	4800mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON CHAMBER SIDE OF EXISTING WALL		
CW 1.19	120mm	1400mm		YD16-150-V; YD12-200-H	NEW CONCRETE WALL WITH BRICK VENEER		
CW 1.20	200mm	1400mm		YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER		
CW 1.21	200mm	3200mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL		
CW 1.22	200mm	3000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL. 4 BOUNDARY ELEMENTS REQUIRED - EACH END OF EACH 1.5M WALL		
CW 2.1	120mm	3400mm		YD16-150-V; YD12-200-H	NEW CONCRETE WALL WITH BRICK VENEER		
CW 2.2	200mm	9600mm	4-YD16 AROUND PERIMETER; R10-100 ALONG BE	YD16-150-V; YD12-200-H	RE-BUILD GABLE WITH CONCRETE WALL AND BRICK VENEER		
CW 2.3	120mm	2400mm		YD16-150-V; YD12-200-H	LINING ON INSIDE FACE OF EXISTING WALL		
CW 2.4	200mm	9600mm	4-YD16 AROUND PERIMETER; R10-100 ALONG BE	YD16-150-V EF; YD12-200-H EF	RE-BUILD GABLE WITH CONCRETE WALL AND BRICK VENEER		
CW 2.5	120mm	2900mm	4-YD16 BOTH ENDS; R10-100H	YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER. 4 BOUNDARY ELEMENTS		
CW 2.6	200mm	5200mm	4-YD16 AROUND PERIMETER; R10-100 ALONG BE	YD16-150-V EF; YD12-200-H EF	RE-BUILD GABLE WITH CONCRETE WALL AND BRICK VENEER		
CW 2.7	200mm	1200mm		YD16-150-V EF; YD12-200-H EF	REBUILD SECTION OF BRICK WALL		
CW 2.8	120mm	1400mm		YD16-150-V; YD12-200-H	NEW CONCRETE WALL WITH BRICK VENEER		
CW 2.9	200mm	3000mm	4-YD16 AROUND PERIMETER; R10-100 ALONG BE	YD16-150-V; YD12-200-H	RE-BUILD GABLE WITH CONCRETE WALL AND BRICK VENEER		

			SHEAR WA	LL REINFORCIN	IG SCHEDULE
WALL MARK	WIDTH	MIN LENGTH	BOUNDARY ELEMENTS	TYPICAL REINFORCING	COMMENTS
CW G.1	200mm	5500mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE OF EXISTING WALL
CW G.2	220mm	2200mm	6-YD20-V BOTH ENDS; R10-100-H	YD16-100-V EF; YD12-100-H EF	NEW WALL, NO BRICK VENEER
CW G.3	200mm	3700mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE OF EXISTING WALL
CW G.4	300mm	4000mm	6-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW WALL, NO BRICK VENEER
CW G.5	200mm	3400mm		YD16-100-V EF; YD12-100-H EF	LINING ON ONE FACE OF EXISTING WALL
CW G.6	200mm	4000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-100-V EF; YD12-100-H EF	LINING ON ONE FACE OF EXISTING WALL
CW G.7	200mm	3800mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	DECONSTRUCT EXTERNAL FACE OF WALL AND CONSTRUCT NEW WALL WITH BRICK VENEER ON OUTSIDE FACE
CW G.8a	500mm	500mm	10-YD25-V BOTH ENDS; R10-100-H	YD25-100-V EF; R10-100-H EF	CORNER COLUMNS BOTH ENDS TO BE THE SAME. NEW CONCRETE FRAME
CW G.8b	300mm	750mm	6-YD25-V BOTH ENDS; R10-100-H	YD25-150-V EF; R10-100-H EF	INTERNAL COLUMNS BOTH SIDES TO BE THE SAME. NEW CONCRETE FRAME
CW G.9	120mm	2800mm		YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER. INCLUDES DIAGONAL RETURN AROUND STAIRS
CW G.10	300mm	2900mm	6-YD25-V BOTH ENDS; R10-100-H	YD16-100-V EF; YD12-100-H EF	REBUILD EXISTING CHIMNEY AND CONTINUE WALL ALONG TO WINDOW. WELL TIED INTO EXISTING CONCRETE WALL
CW G.11	220mm	1700mm	6-YD20-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW WALL
CW G.12	300mm	3000mm	6-YD16-V BOTH ENDS; R10-100-H	YD16-100-V EF; YD12-100-H EF	NEW WALL
CW G.13	200mm	2000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL
CW G.14	200mm	2800mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON WEST SIDE OF EXISTING WALL
CW G.15	200mm	5100mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON WEST SIDE OF EXISTING WALL
CW G.16	120mm	1400mm		YD16-150-V; YD12-200-H	NEW CONCRETE WALL WITH BRICK VENEER
CW G.17	200mm	1400mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	NEW CONCRETE WALL WITH BRICK VENEER
CW G.18	200mm	3200mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-150-V EF; YD12-200-H EF	LINING ON INSIDE FACE OF EXISTING WALL
CW G.19	200mm	3000mm	4-YD16-V BOTH ENDS; R10-100-H	YD16-100-V EF; YD12-100-H EF	LINING ON INSIDE FACE OF EXISTING WALL. 4 BOUNDARY ELEMENTS REQUIRED – EACH END OF EACH 1.5M WALL



DO NOT SCALE

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING ANY WORK.

ALL STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, FIRE, MECHANICAL & ELECTRICAL DRAWINGS.

NOT FOR CONSTRUCTION

REVISIONS

B ISSUED FOR INFORMATION A ISSUED FOR PRICING

24/03/2017 24/02/2017

NOTES

- 1. ALL DIMENSIONS TO BE CONFIRMED
- ALL GRIDLINES ARE SET BASED ON ARCHITECTS MODEL
- 3. REFER TO SHEET S700 FOR CONCRETE SHEAR WALL SCHEDULE AND DETAILS
- 4. REFER TO SHEET S600 FOR STEELWORK SCHEDULES AND **DETAILS**
- 5. REFER TO SHEET S500 FOR TIMBER DIAPHRAGM SCHEDULE AND **DETAILS**



OLD MUNICIPAL CHAMBERS Repairs, Reconstruction & Restoration

FULL RESTORATION **DEVELOPED DESIGN**

CONCRETE SHEAR WALL DETAILS & SCHEDULES

SCALE @ A1= 1:10

6-DP315.20

24/03/2017

S700

