

JOB CLIENT REF# Lot 2 136 Hwy 26 LEGAL DESC. Newstead 3286

FRAMING PARAMETERS STEEL SECTION: 89.0x41.3x0.75mm LC **GROUND STUD HEIGHT:** 2720mm UPPER STUD HEIGHT: 2720mm STUD CENTRES: 600mm **DESIGN LOADS** WIND ZONE: HIGH

STEELHAUS

GROUND SNOW LOAD: 0kPa **EARTHQUAKE ZONE:** ZONE 1

BC Number - DD007.2021.00043914.001

CG TYPICAL C SECTION 10g 16x16mm

TYPICAL FRAME ASSEMBLY SCREW 10g 16x16mm TYPICAL HEX HEAD SCREW

TYPICAL FLAT HEAD SCREW



BC Number - DD007.2021.00043914.001



AND ERECTION All cold formed steel structure design and detailing to be certified by suitably qualified

GENERAL NOTES ON COLD FORMED STEEL FABRICATION

persons prior to construction.

Product Range and Specifications Grade Standard AS 1397:2011 Thickness (Base Metal) 0.75 Steel grade Coating weight Z275 or AZ150

Please refer to current Construction Manual for all details. Current construction manual can be found at.

www.steelhaus.co.nz

Refer to architectural drawings for dimensions, foundation structure and any additional structural steel not shown on structural drawings.

Framing components are to be pre-assembled into panels prior to erecting. Prefabricated panels shall be square with components attached in a manner to avoid raking.

Design, fabrication and erection shall conform to "Cold Formed Steel Structures" AS4600. All screws to be 10gx16 TPI Tek screws UNO

Erect framing and panels level and square in strict accordance with the approved shop drawings. Handling and lifting of prefabricated panels shall be done in a manner as to not cause distortion in a member. Tracks shall be securely anchored to the supporting structure as shown on the construction drawings.

Concrete anchors shall be installed after full concrete compressive strength has been achieved.

Do not cut load bearing studs, headers, joists or trusses to install plumbing, electrical or other items in excess of a 35mm diameter hole at the centre of a member, unless studs have been reinforced to maintain structural integrity as per details provided.

Ensure continuous DPC between galvanised steel Concrete, Copper, Brass and CCA treated timber.

Builder to check all trim sizes, braces and cladding fixings on site before enclosing.

Trussses have been designed with ceiling battens @ 600/450 crs. fixed directly to the underside of the truss. If steel ceiling battens with clips are used the trusses will need to be redesigned to suit this system and bottom chord restraints will need



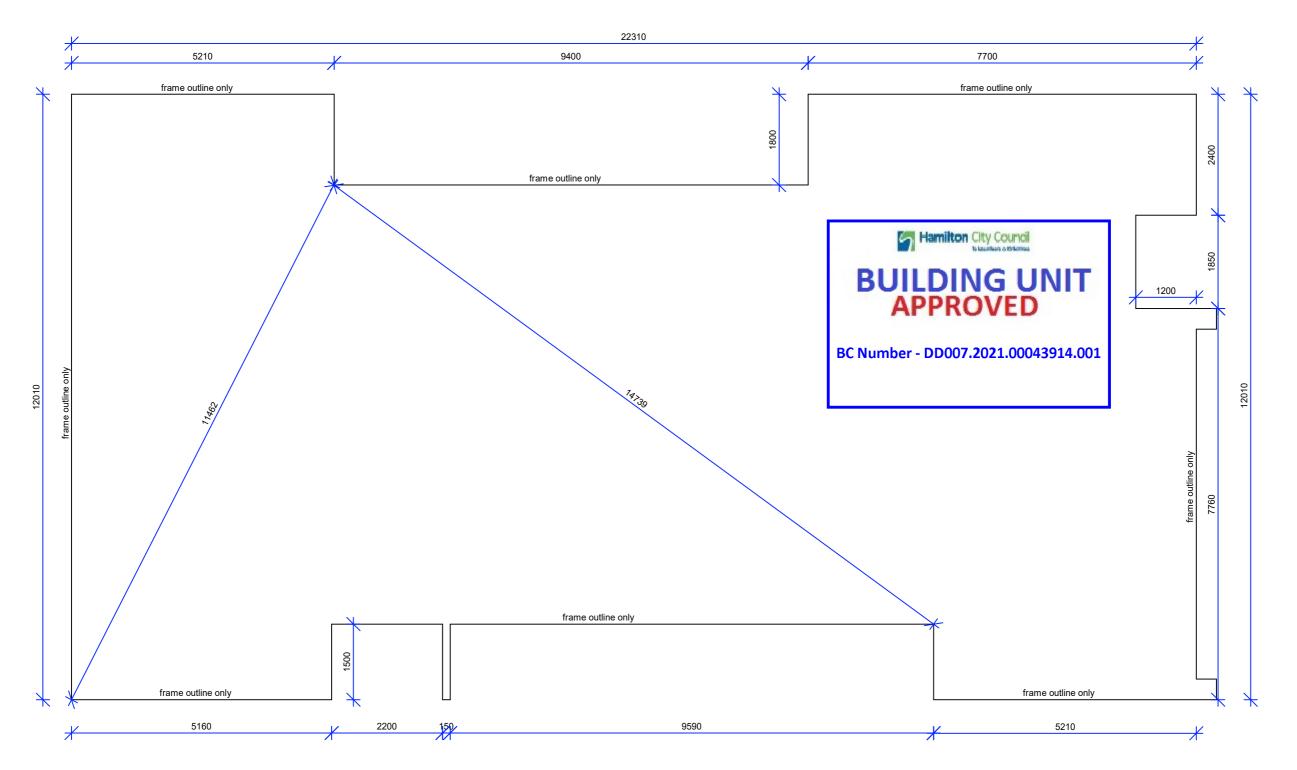


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2.	FOR PS1 RESIGN	21.12.06	CF

DIMENSIONS PROVIDED REPRESENT EXTERIOR LINE OF STEELHAUS FRAMES

CLADDING REBATES OR ANY ADDITIONAL SLABS NOT RELATIVE TO STEELHAUS FRAMING HAVE NOT BEEN SHOWN.

"FRAMING OUTLINE" DIMENSIONS ARE PURELY PROVIDED FOR A DOUBLE CHECK.









SteelHaus (2014) Ltd
12 Hautu Drive, Wiri, Auckland 2104
0508 826 766
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New Residence
Proposed Cameron Residence

CLIENT Martin Cameron

REF# J000608

LEGAL DESCRIPTION

136 Hwy 26

Newstead

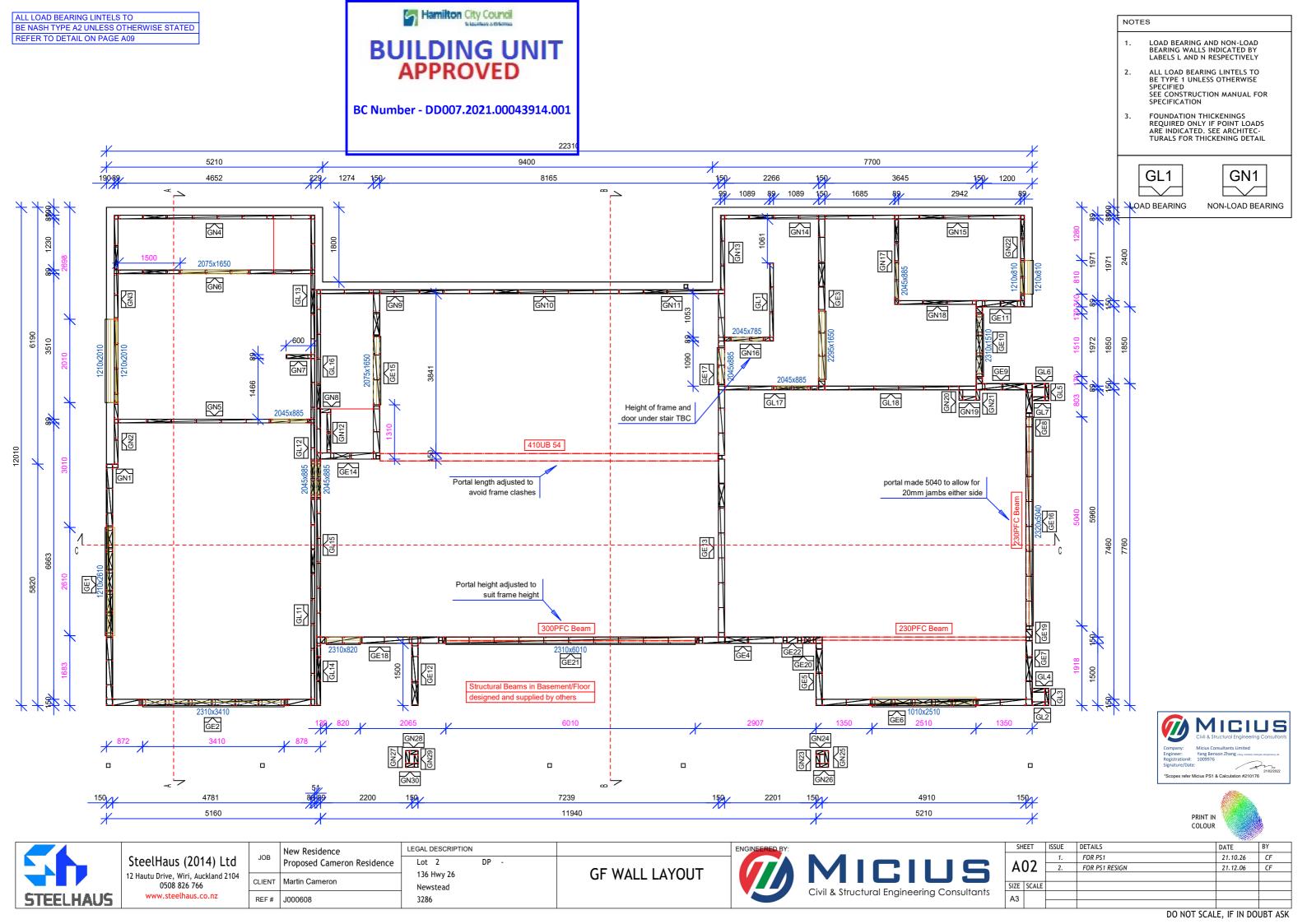
Lot 2

3286

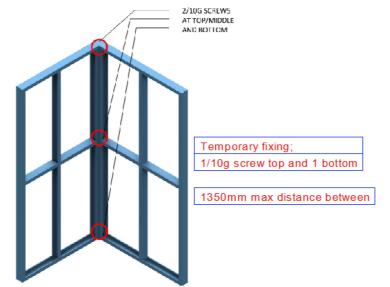
FRAMING OUTLINE

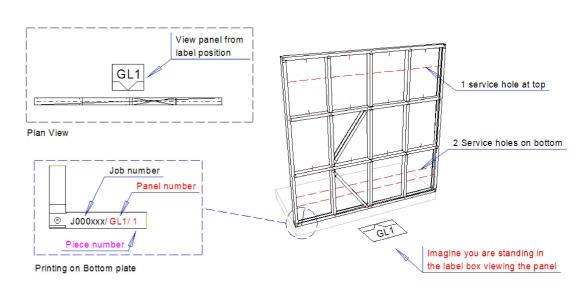


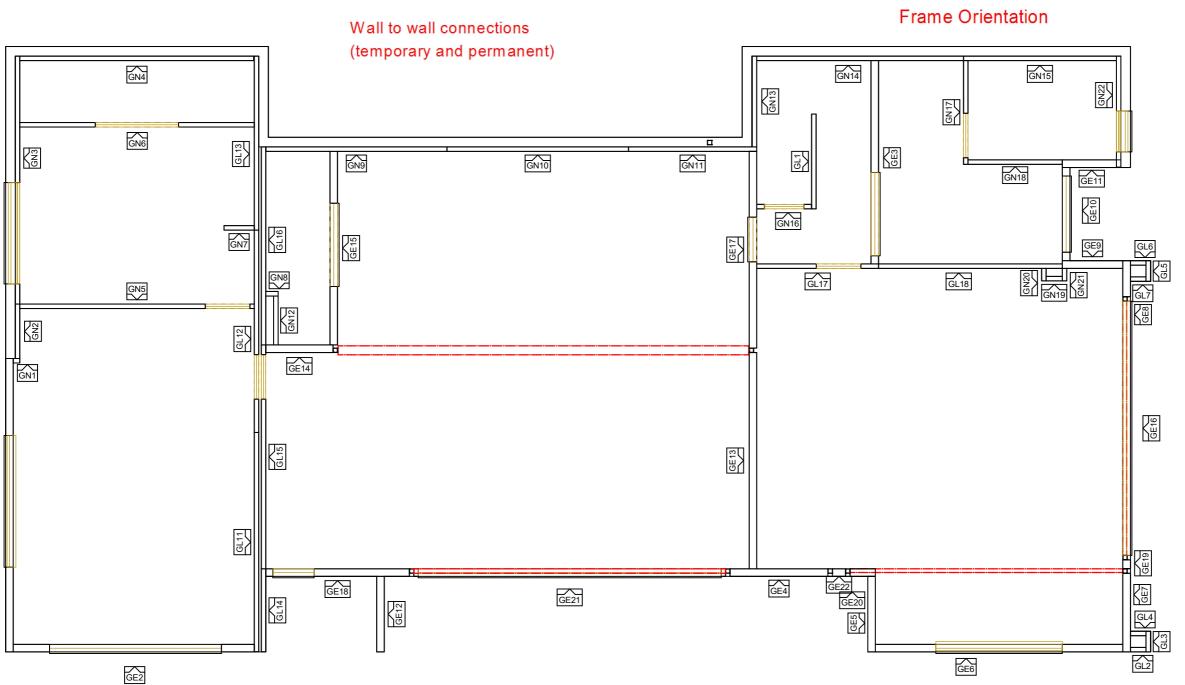
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REF# 100060

New Residence
Proposed Cameron Residence

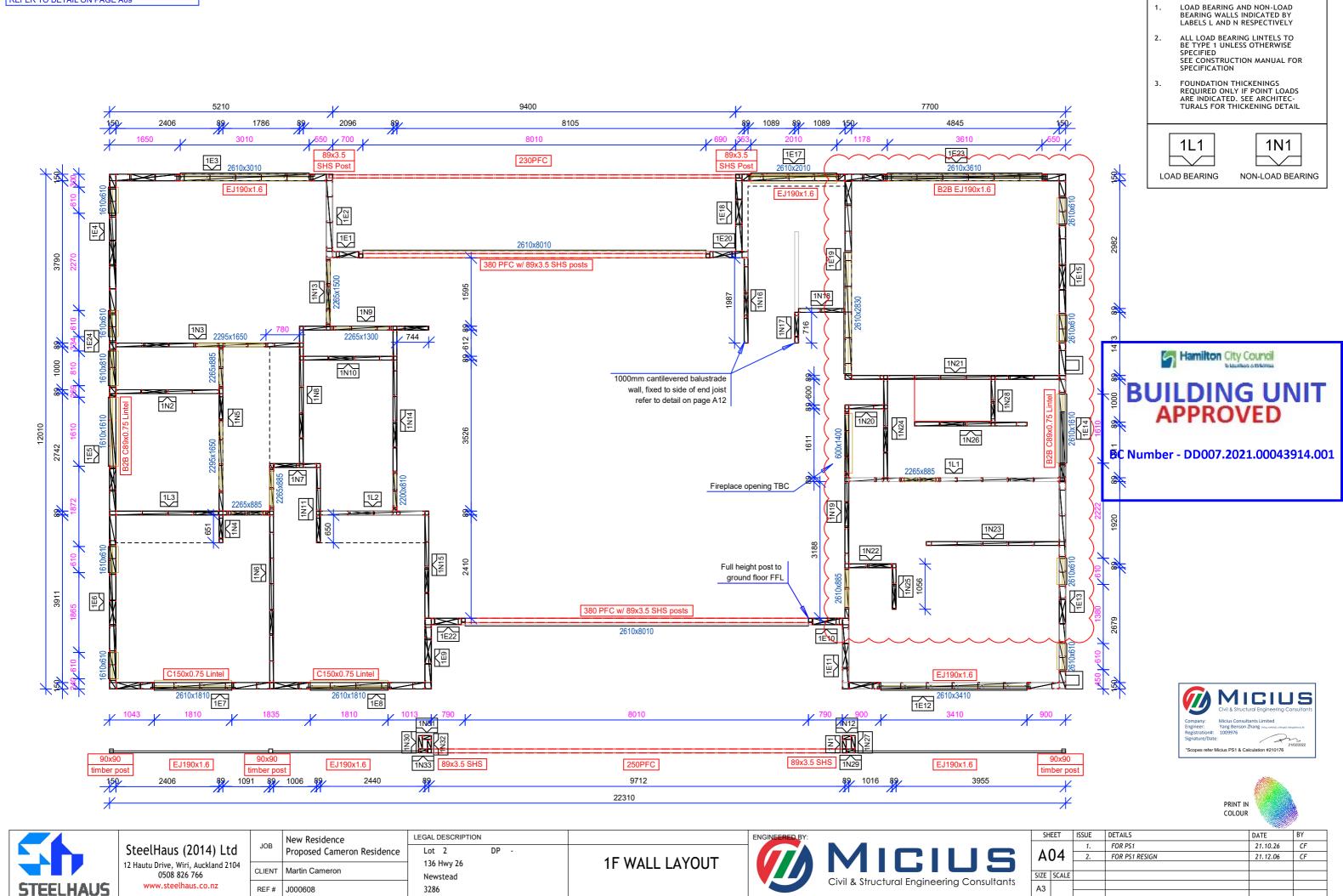
CLIENT Martin Cameron

REF# J000608

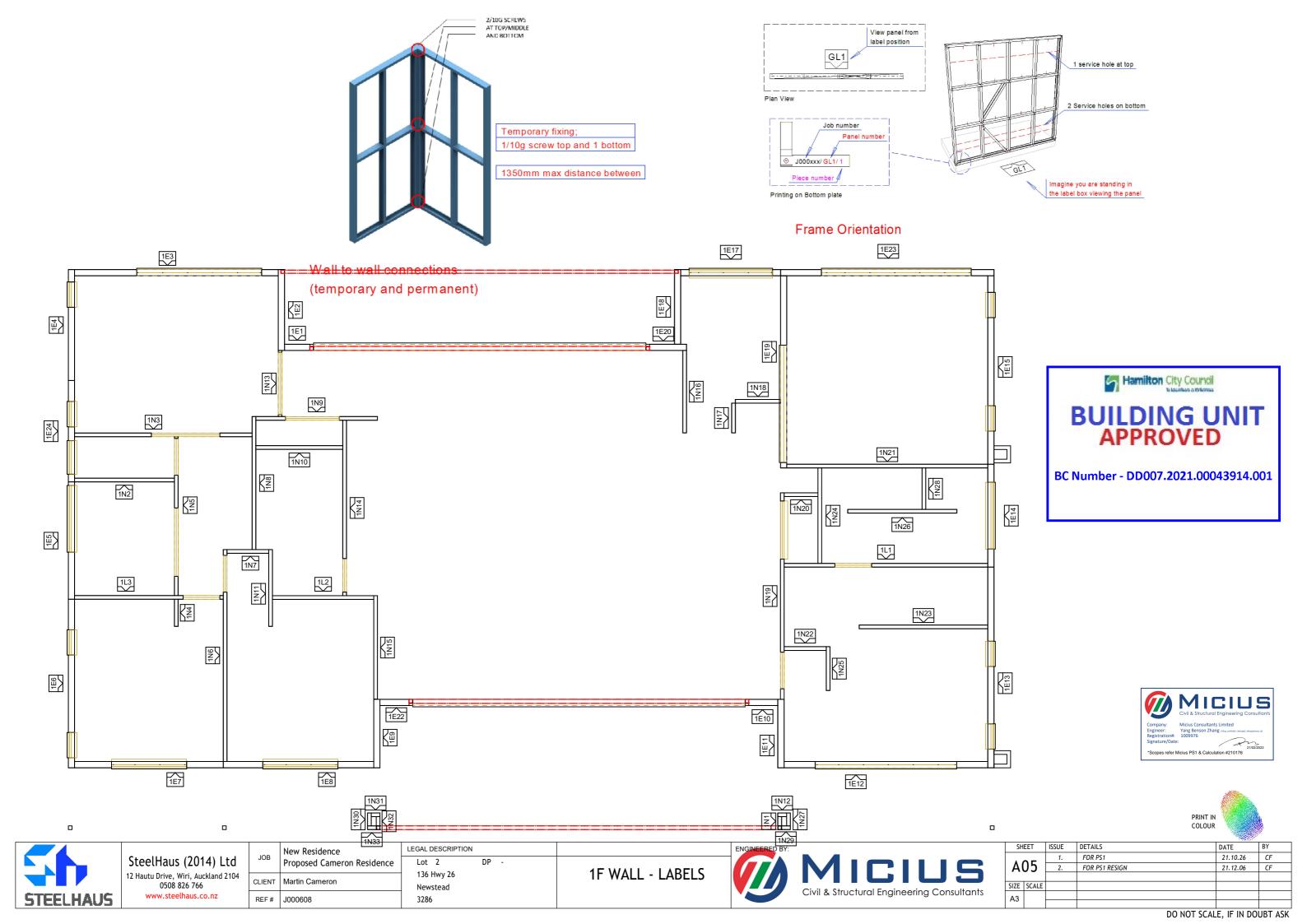
136 Hwy 26 GF WALL - LAB
Newstead
3286



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NOTES



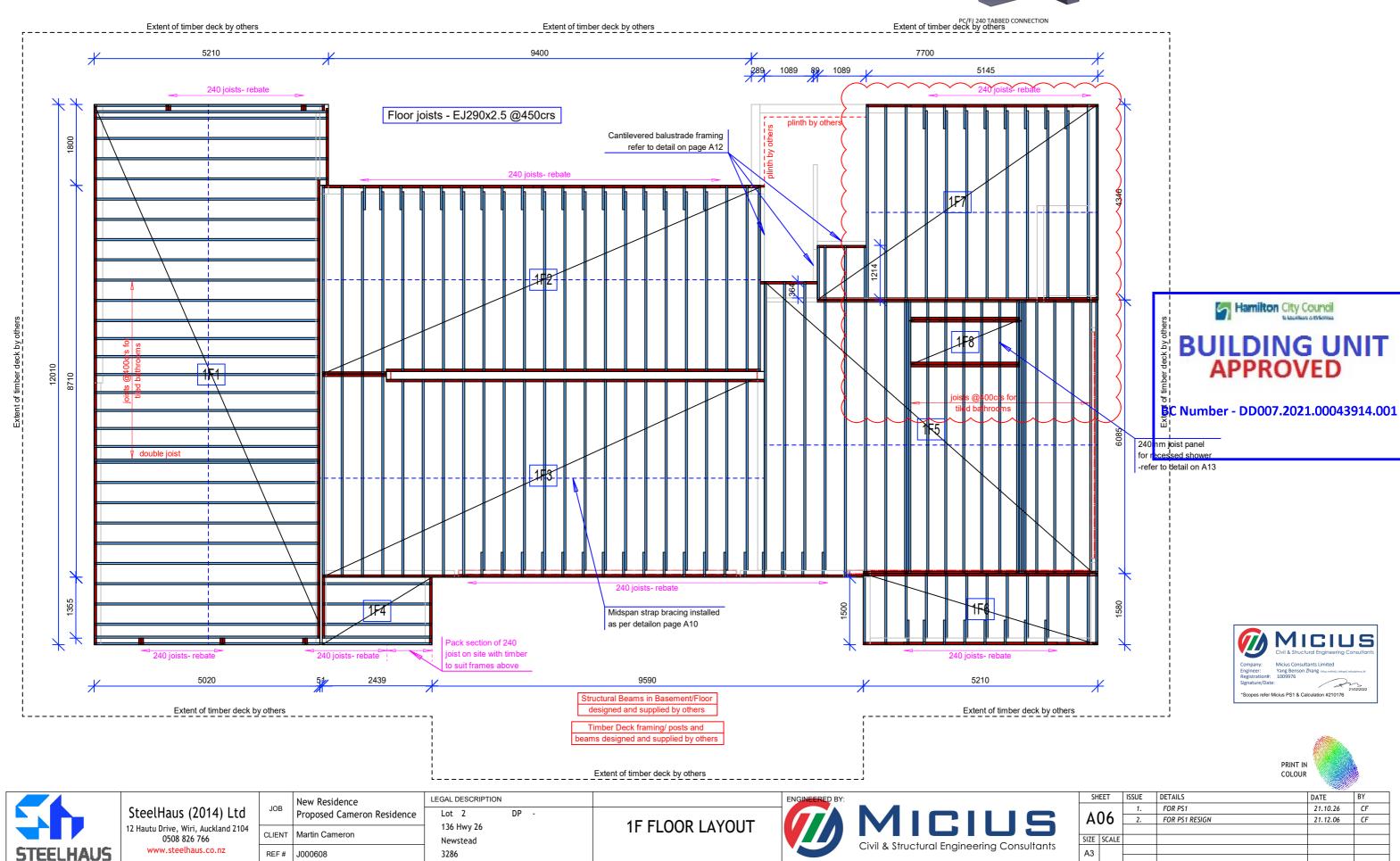
F1240 FLOOR JOIST SWAGED
TO FIT INTO PERIMETER
CHANNEL (PC)

6/10G SCREWS PER JOIST
TABBED CONNECTION

PC240 U-SECTION TABBED AT
EVERY JOIST CONNECTION

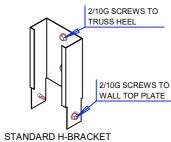
NOTES

 TOP PLATE PACKERS TO BE PLACED ON LOAD BEARING WALLS ONLY

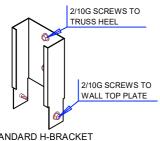


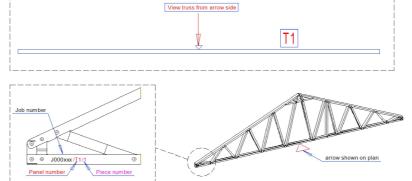
Truss Connection Screw #s Unless otherwise specified all truss uplift connections are to be 5.0kN

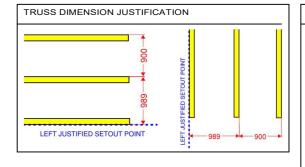
Uplift Capacity	Screw Quantity per connection
5.0 kN	2/10g
7.5 kN	3/10g
10.0 kN	4/10g
12.5 kN	5/10g



600







NOTES

600

- TOP PLATE PACKERS TO BE PLACED ON LOAD BEARING WALLS ONLY
- 2. ALL TRUSS CONNECTIONS TO BE 5kN UNLESS OTHERWISE STATED
 - TRUSS DETAILS REFER TO PS1 & ENGINEERS CALCULATIONS
- RPB ROOF PLANE BRACE 25x0.55mm MS STRIP ROOF PLANE BRACE EACH ROOF PLANE DIAGONAL BRACE IS TO CONSIST OF A DIAGONAL OPPOSING PAIR OF CONTINUOUS STEEL STRIPS EACH

Hamilton City Council

HAVING A CAPACITY OF 8kN IN TENSION, FIXED TO EACH TOP CHORD THAT IS INTERSECTED WITH 2/10G SCREWS AND TO THE TOP PLATE WITH 4/10G SCREWS.



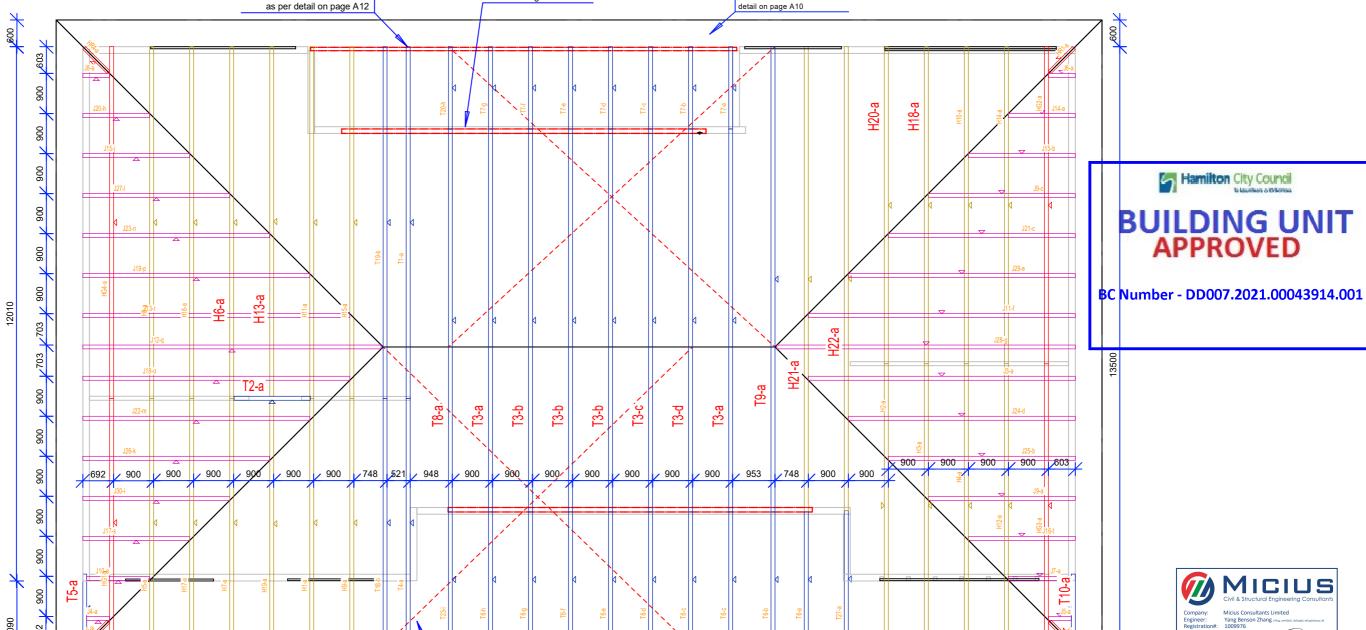
H-Bracket supplied



Trusses subject to engineering

Heels of trusses to be nogged











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New Residence Proposed Cameron Residence CLIENT | Martin Cameron REF# J000608

LEGAL DESCRIPTION

136 Hwy 26

Newstead

DP

Lot 2

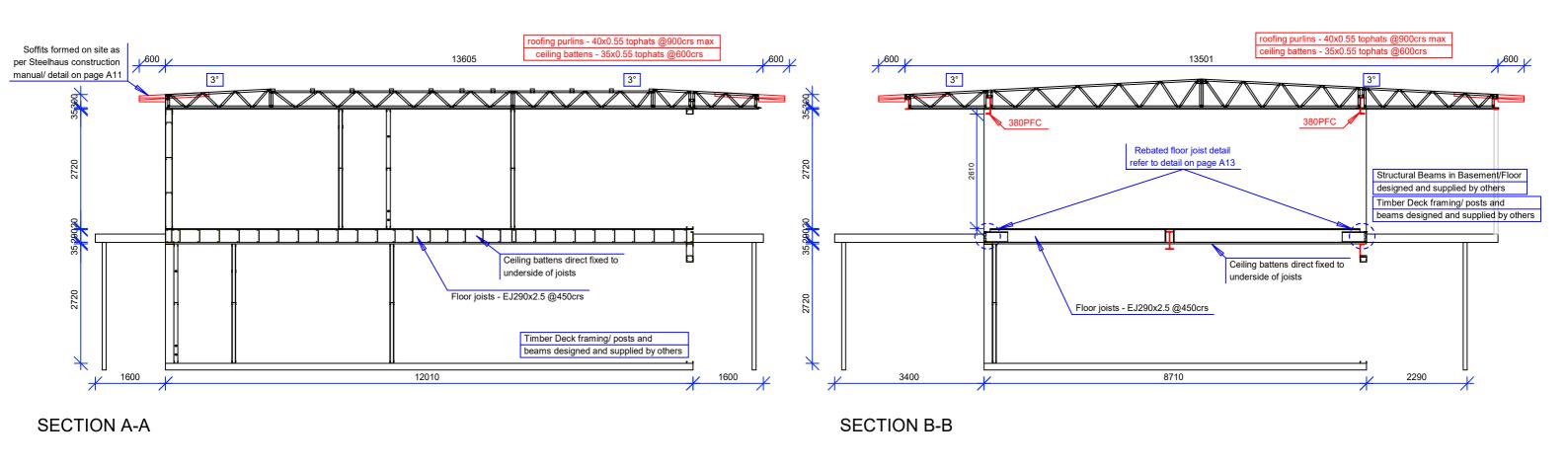
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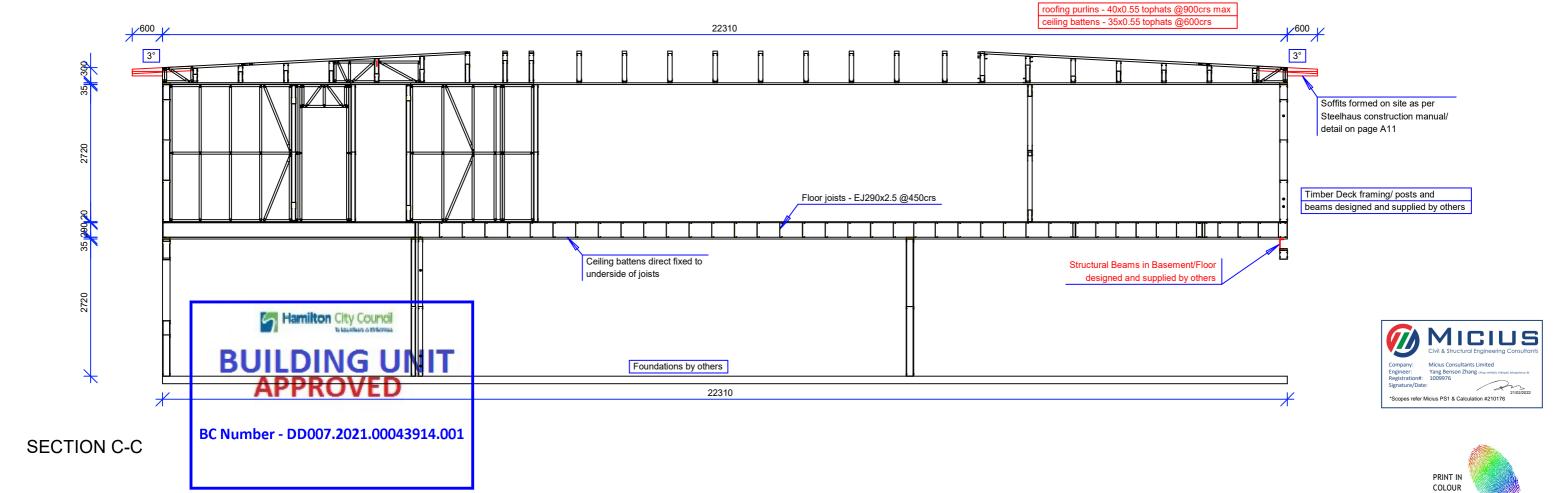
ROOF LAYOUT

25mm roof strap brace



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SECTIONS

STEELHAUS

SteelHaus (2014) Ltd
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New Residence
Proposed Cameron Residence

CLIENT Martin Cameron

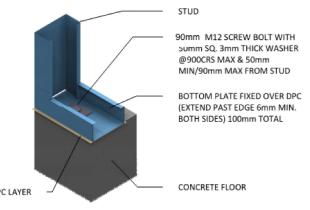
REF# J000608

Lot 2 DP -136 Hwy 26 Newstead 3286

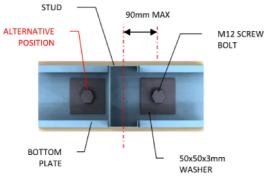
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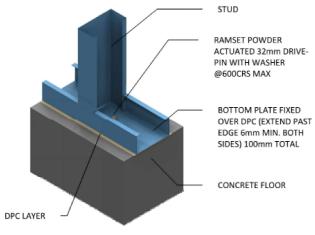
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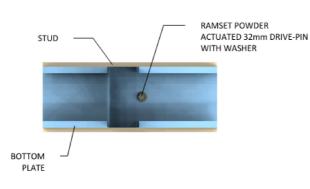
LOAD BEARING WALL HOLD DOWN



LOAD BEARING WALL HOLD DOWN PLAN VIEW



NON-LOAD BEARING WALL HOLD DOWN 3D VIEW

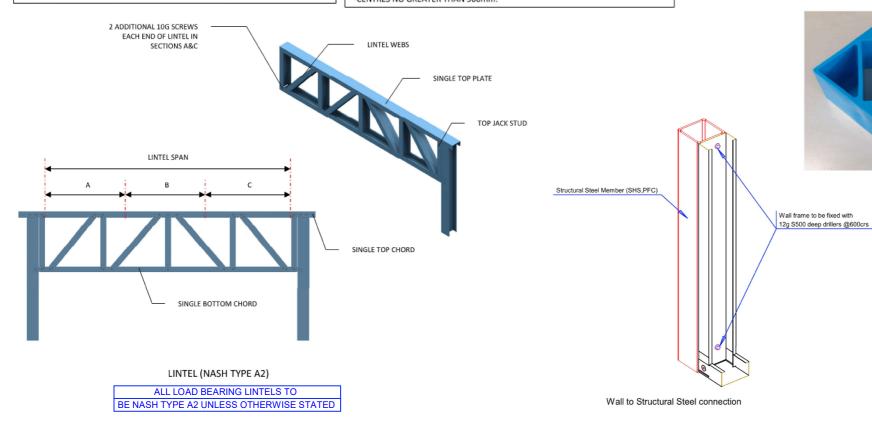


NON-LOAD BEARING WALL HOLD DOWN (PLAN VIEW)

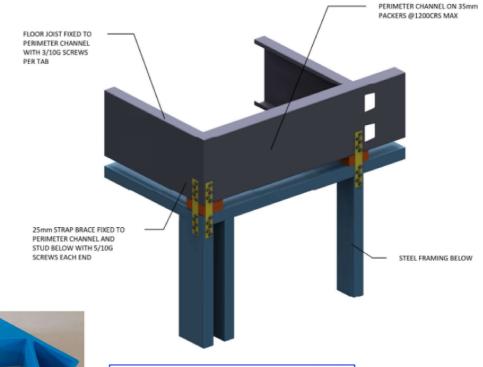
NOTE: ALL EXTERNAL AND BRACED WALL FRAMES ON CONCRETE FLOORS MUST HAVE M12 BOLTS @CRS NO GREATER THAN 900mm WITH 50x50x3 WASHERS LOCATED WITHIN 90mm TO END OF PANEL AS PER NASH 3405:2011 8.9.1

NOTE: ALL CONCRETE HOLD DOWNS REQUIRE A SCREW BOLT OR CONNECTION AT: -EACH INTERSECTION OF EXTERNAL OR BRACED WALL

-EACH SIDE OF OPENINGS. -CENTRES NO GREATER THAN 900mm







Packer spaced at 1200mmcrs MAX. place within 100mm of stud below

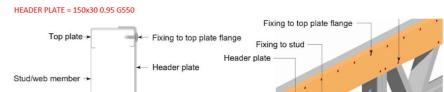
Midfloor packer installation

HEADER PLATES/ TOP PLATE STIFFENING WHERE SPECIFED SHALL BE FIXED AS PER BELOW;

-1/10G FLAT HEAD SCREW TO TOP PLATE FLANGE @150CRS AND AT EACH END.

-1/10G FLAT HEAD SCREW INTO EACH INTERSECTING VERTICAL/WEB MEMBER AND AT EACH END.

NO HOLES ALLOWED IN L-ANGLEW APART FROM FIXINGS JOINS OF L-ANGLE TO BE DIRECTLY ON VERTICAL MEMBER



HEADER PLATE/ TOP PLATE STIFFENER

Fixing to stud/web member



MICIUS

*Scopes refer Micius PS1 & Calculation #210176



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New Residence CLIENT | Martin Cameron

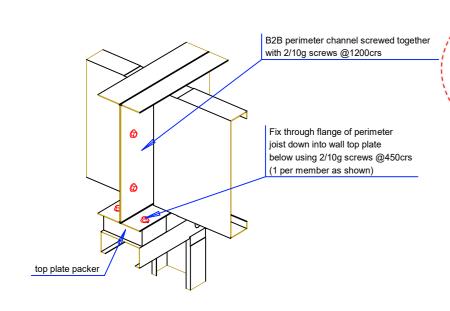
Proposed Cameron Residence J000608

LEGAL DESCRIPTION Lot 2 DP 136 Hwy 26 Newstead 3286

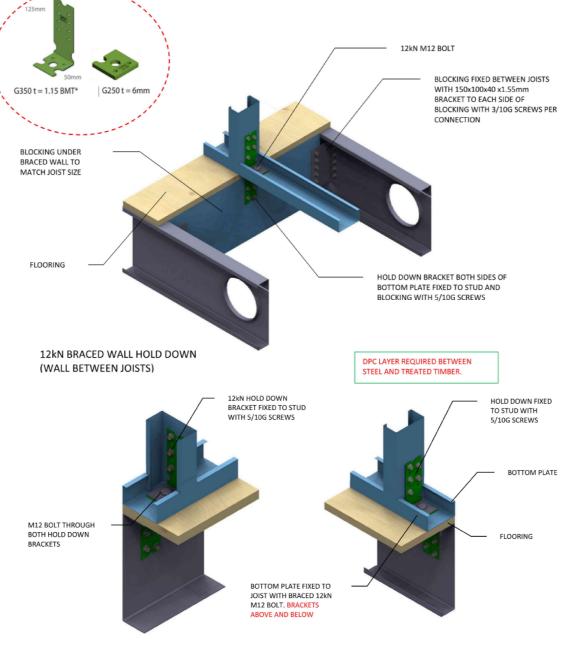
DETAILS

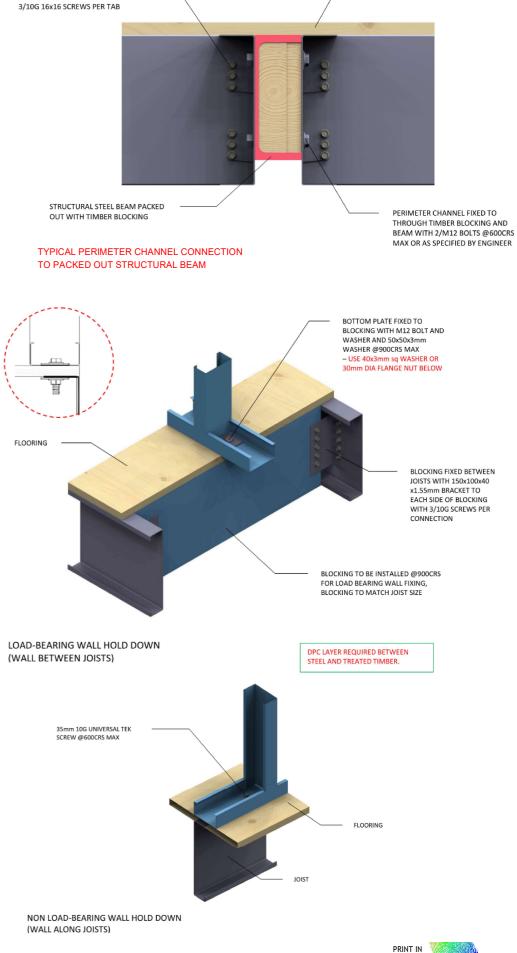


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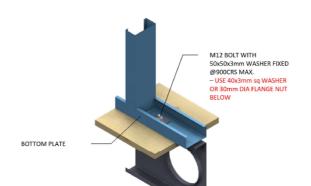
B2B perimeter channel onto load bearing wall







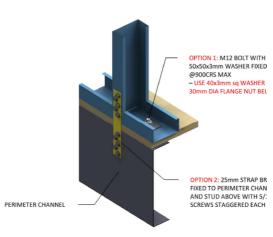
BC Number - DD007.2021.00043914.001



12kN BRACED WALL HOLD DOWN

(WALL ALONG BOUNDARY JOIST)

12kN BRACED WALL HOLD DOWN (WALL ALONG JOIST)





LOAD-BEARING WALL HOLD DOWN (WALL ALONG JOIST)

LOAD-BEARING WALL HOLD DOWN (WALL ALONG BOUNDARY JOIST)

DETAILS



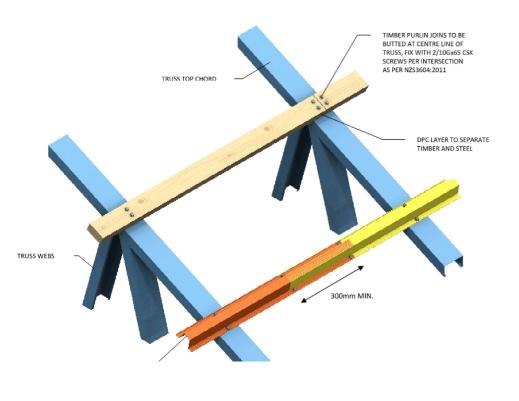
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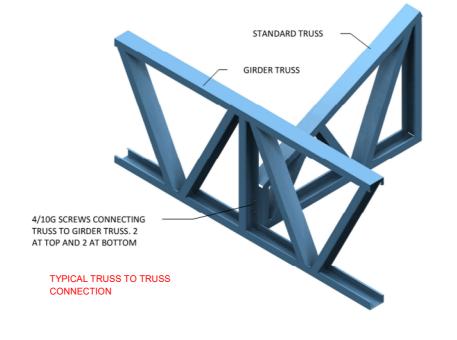
New Residence Proposed Cameron Residence CLIENT | Martin Cameron REF# J000608

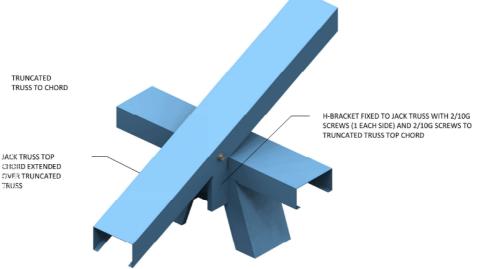
LEGAL DESCRIPTION Lot 2 DP 136 Hwy 26 Newstead 3286

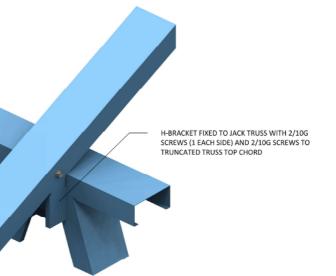


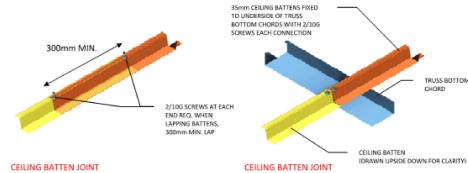
FLOOR JOISTS FIXED TO PERIMETER CHANNEL WITH FLOORING SYSTEM BY OTHERS





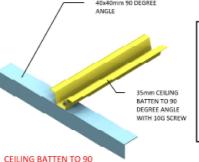






CEILING BATTEN JOINT (NOT ON TRUSS)

(ON TRUSS)



Ceiling Battens 35mm Top Hat Section Table of max span vs. Spacings Span (m) Span (m) Figs based of 1.7 1.5 1.4 1.3 1.5 1.4 1.4 1.3 Using 13mm gib ceilings Using 16mm gib Ceilings Using 20mm gib Ceilings

DEGREE BEND ANGLE

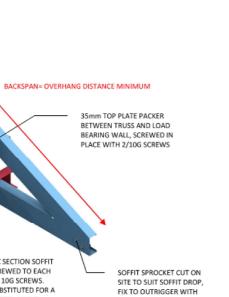
35mm CEILING BATTEN FIXED TO UNDERSIDE OF TRUSS 4/10G SCREW CONNECTION TO TRUSS BOTTOM CHORDS REQ. BOTTOM CHORDS WITH 2/10G WHEN USING THE FALL SCREWS PER CONNECTION RESTRAINT SYSTEM TRUSS BOTTOM CHORD

CEILING BATTEN TO TRUSS CONNECTION (IF USED WITH FALL RESTRAIN SYSTEM)

CEILING BATTEN TO TRUSS CONNECTION (STANDARD)







2/10G SCREWS

OUTRIGGER FIXED TO RIGHT SIDE OF TRUSS TOP

THIS ASSISTS WITH FASCIA BRACKET FIXING

WHEN VIEWING TRUSS FROM BUILDING EXTERIOR)

CHORD WITH 10G SCREWS @300CRS.

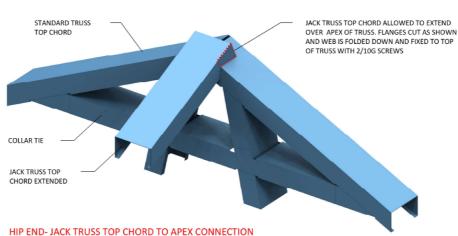
UNLIPPED C SECTION SOFFIT RIBBON SCREWED TO EACH

-CAN BE SUBSTITUTED FOR A

STUD WITH 10G SCREWS.

40x40mm STEEL ANGLE

HIP END- JACK TRUSS TOP CHORD TO TRUNCATED TRUSS CONNECTION



Scopes refer Micius PS1 & Calculation #210176



FOR VISUAL CLARITY

H-BRACKET FIXED TO TRUSS AND TOP PLATE WITH 2/10G SCREWS TO EACH MEMBER

SPROCKET FIXED TO RIBBON WITH 2/10G SCREWS, 1 AT THE

TOP AND 1 AT THE BOTTOM

TRUSS HOLD-DOWN INCLUDING SOFFIT CONSTRUCTION

NOTE: THE SOFFIT RIBBON CAN BE EITHER LENGTHS OF UNLIPPED FRAMING SECTION OR LENGTHS OF 40x40mm STEEL ANGLE.

FASCIA BEING FIXED TO ALLOW FOR BRACKET FIXING

-THE SOFFIT RIBBON IS TO BE INSTALLED OVER THERMAL BREAK AND

BUILDING PAPER. SOFFIT FRAMING MUST BE IN PLACE PRIOR TO THE

THERMAL BREAK AND BUILDING PAPER IS NOT SHOWN IN RENDERS

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New Residence Proposed Cameron Residence CLIENT | Martin Cameron www.steelhaus.co.nz J000608

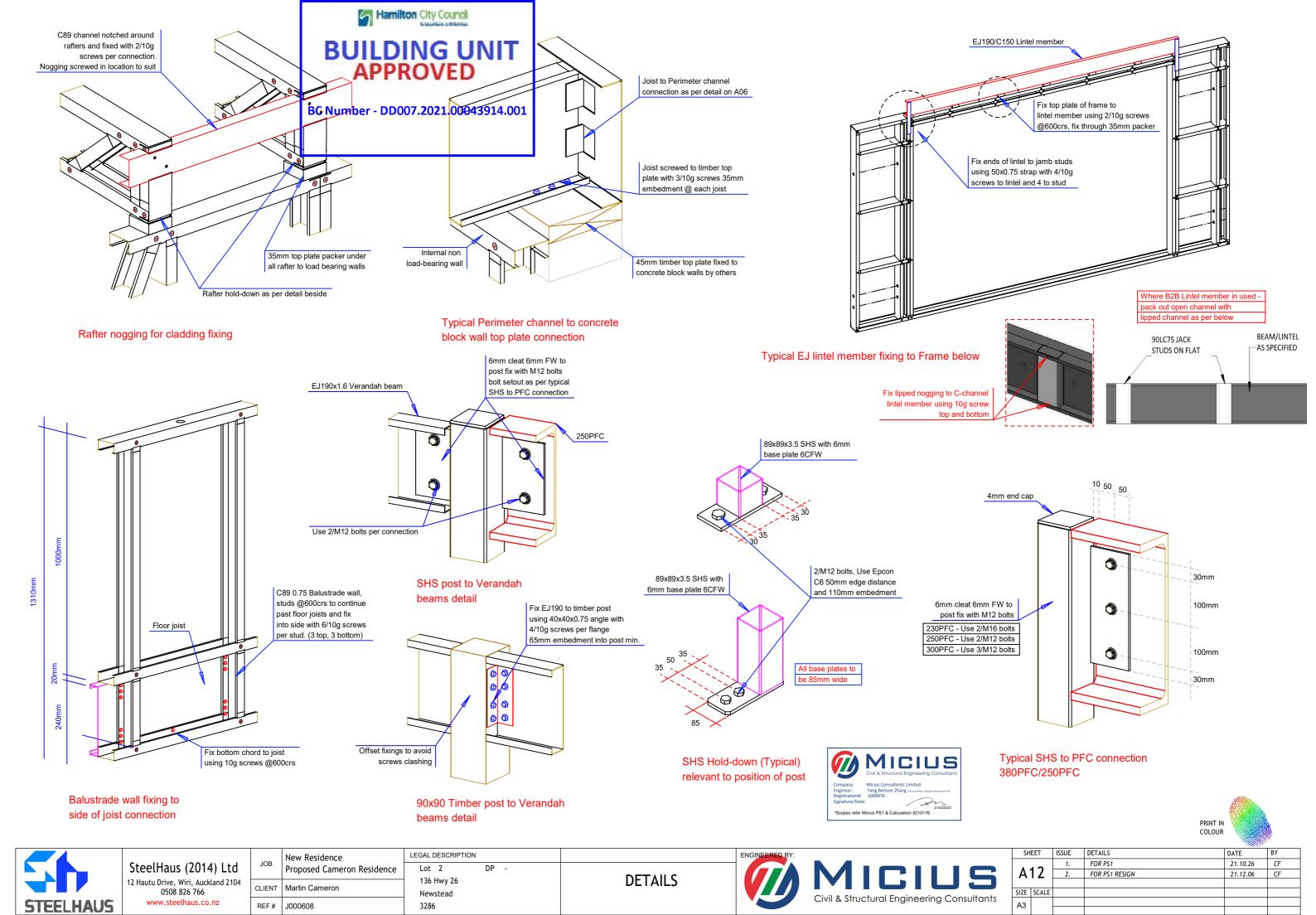
Lot 2 DP 136 Hwy 26 Newstead 3286

LEGAL DESCRIPTION

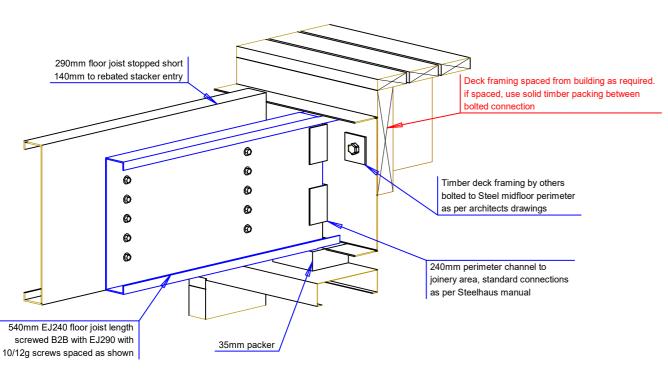
DETAILS Civil & Structural Engineering Consultants

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DO NOT SCALE, IF IN DOUBT ASK

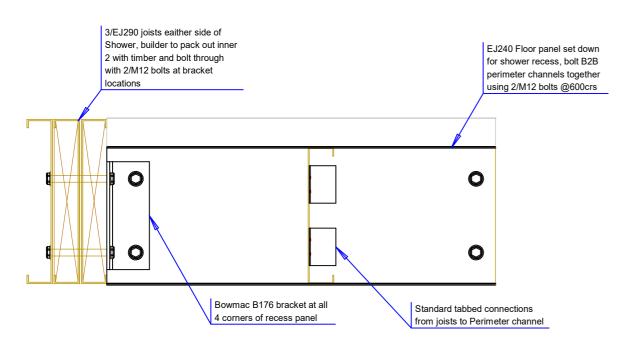


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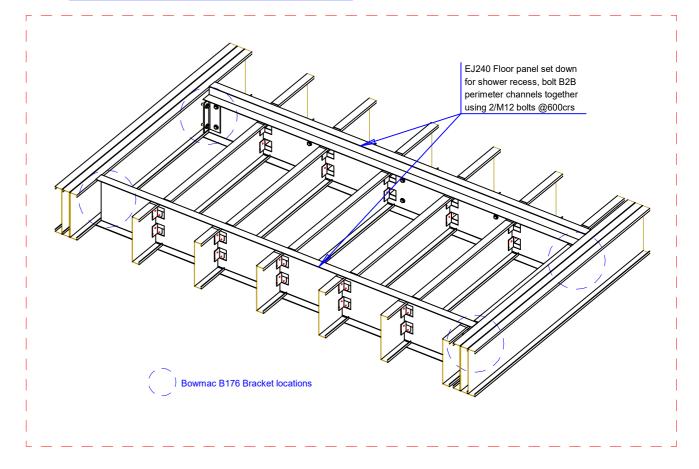


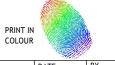


Rebated floor joist detail/
Timber deck connection to Midfloor



Shower rebate floor panel connection detail





	1
STEE	LHAUS

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Proposed Cameron Residence

CLIENT Martin Cameron

REF# J000608

LEGAL DESCRIPTION

Lot 2 DP
136 Hwy 26

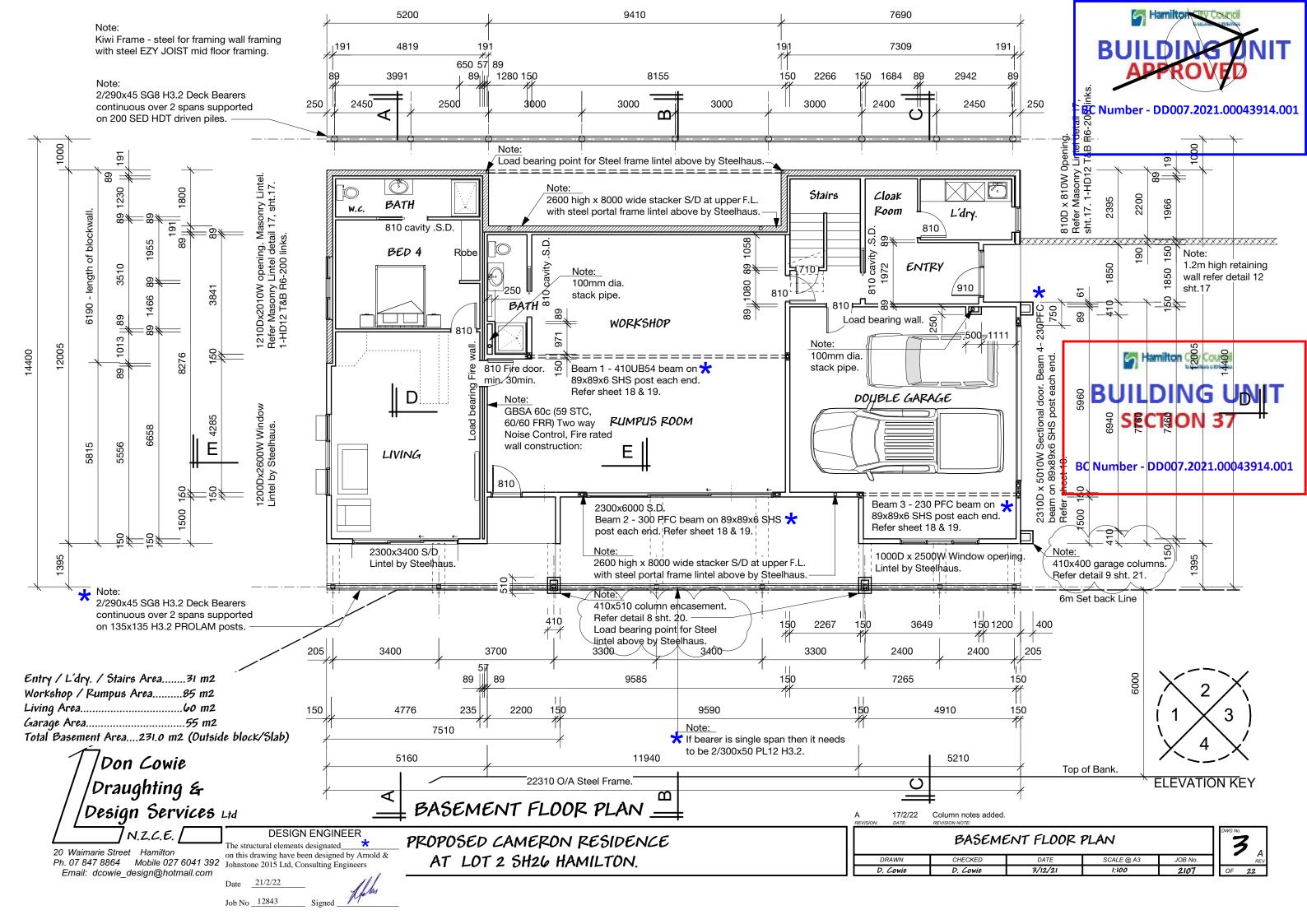
Newstead

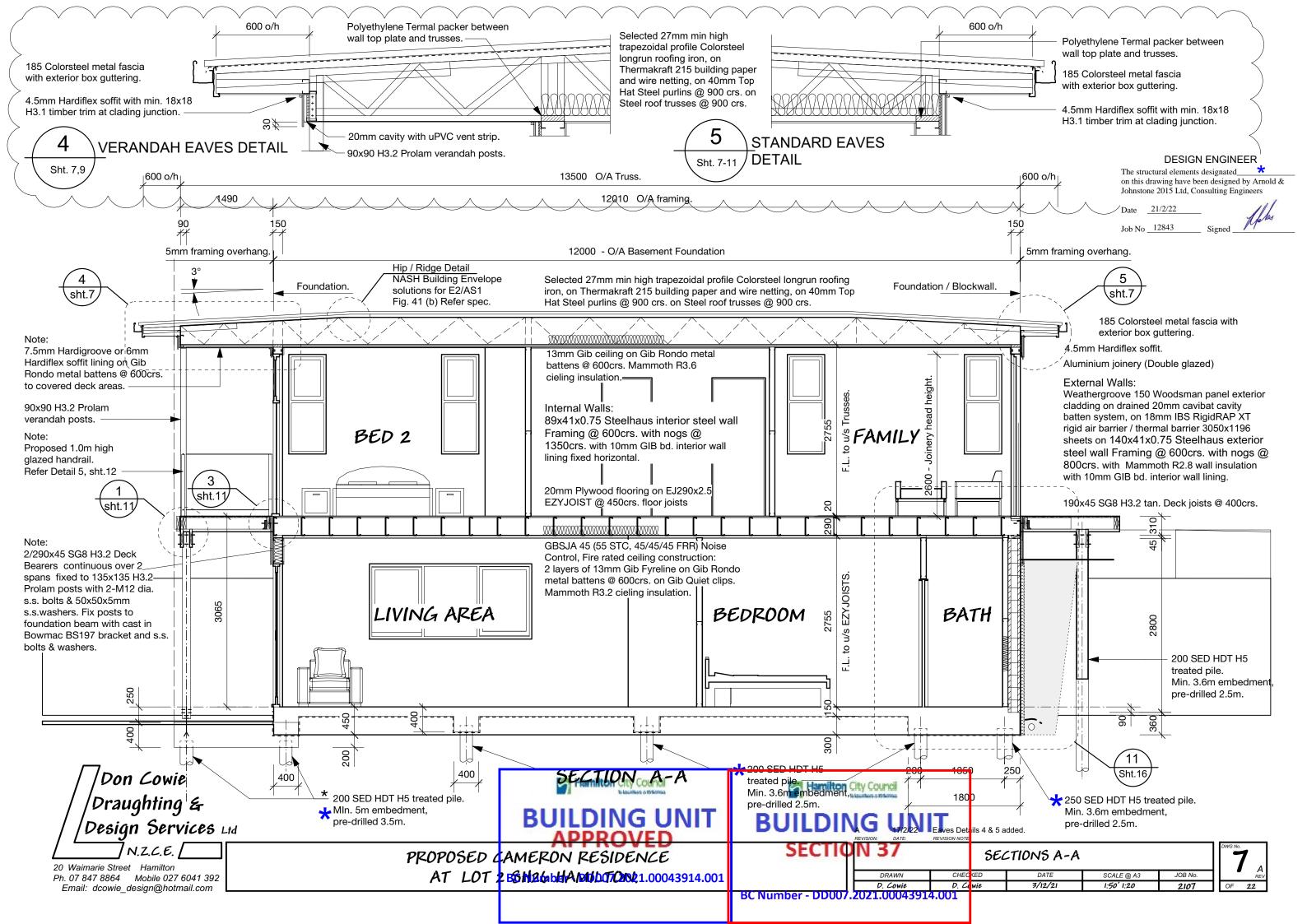
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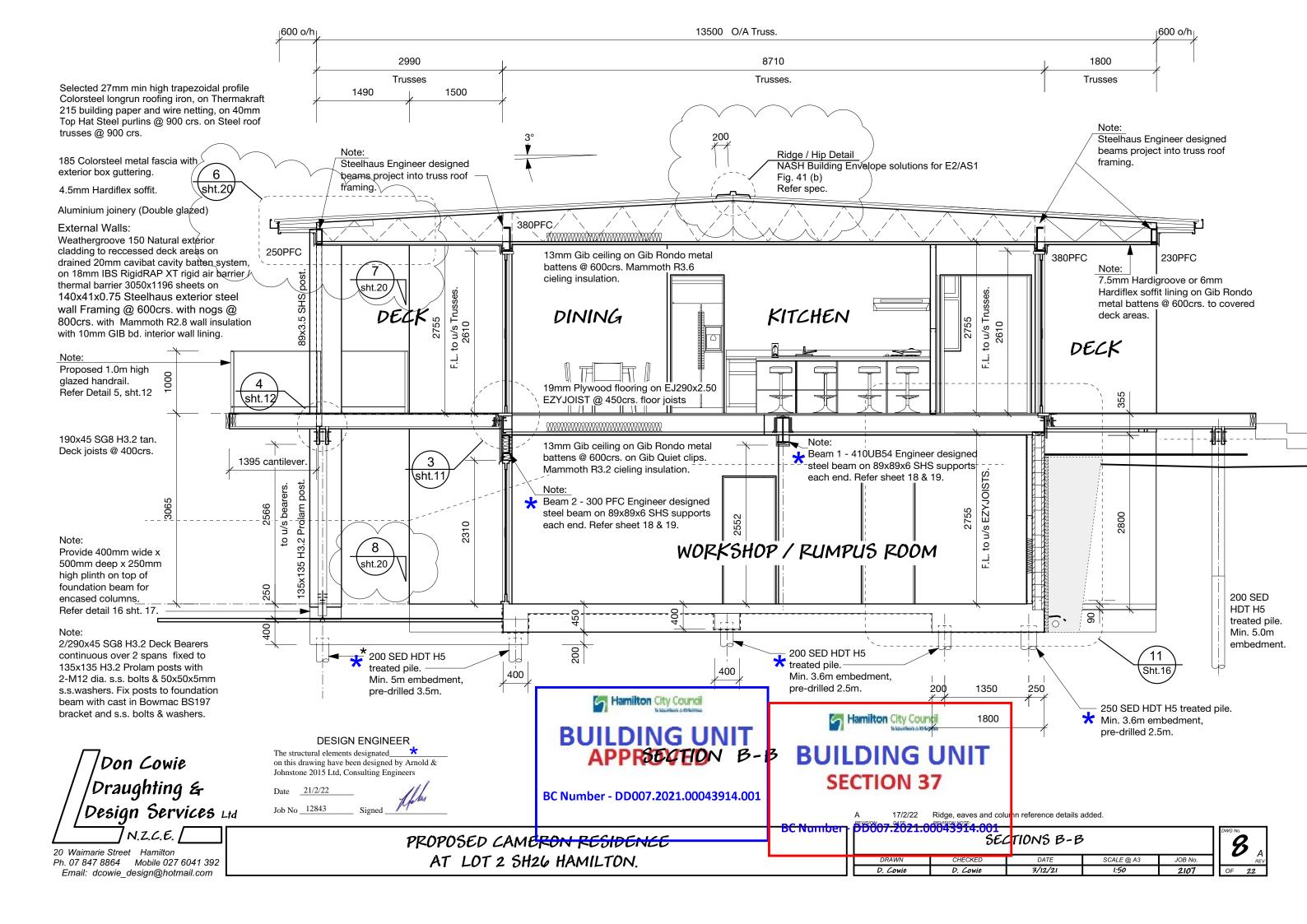
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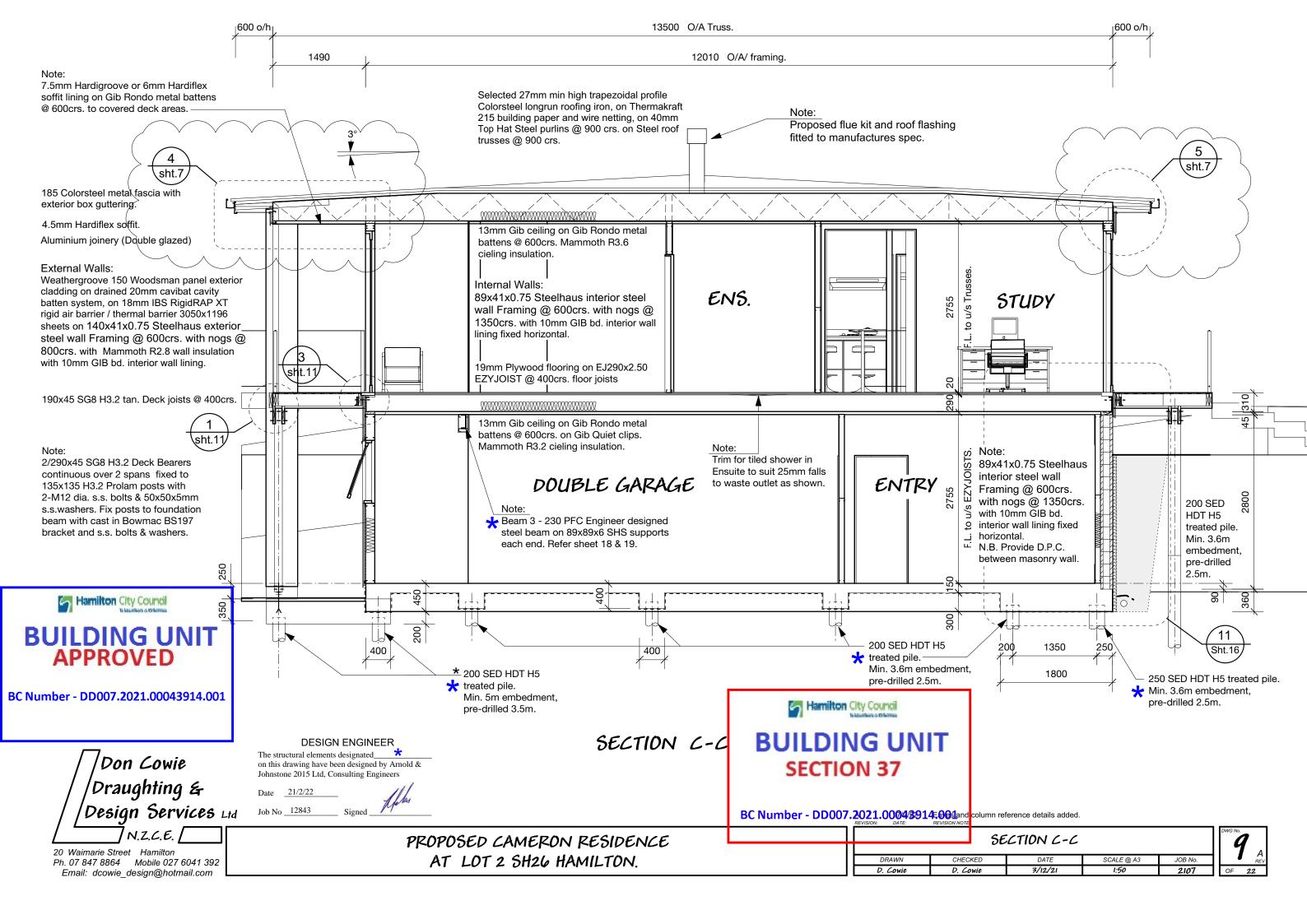


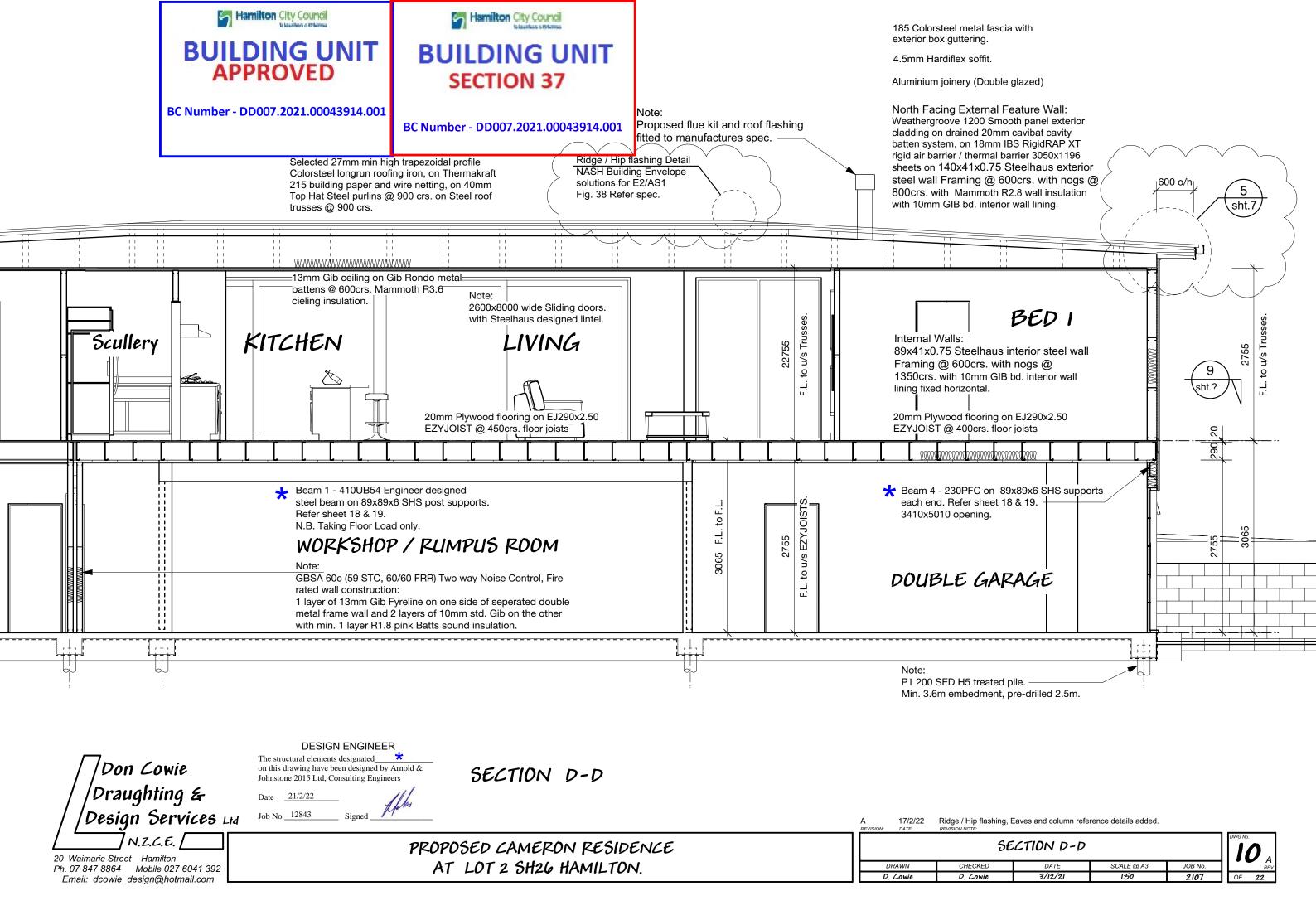
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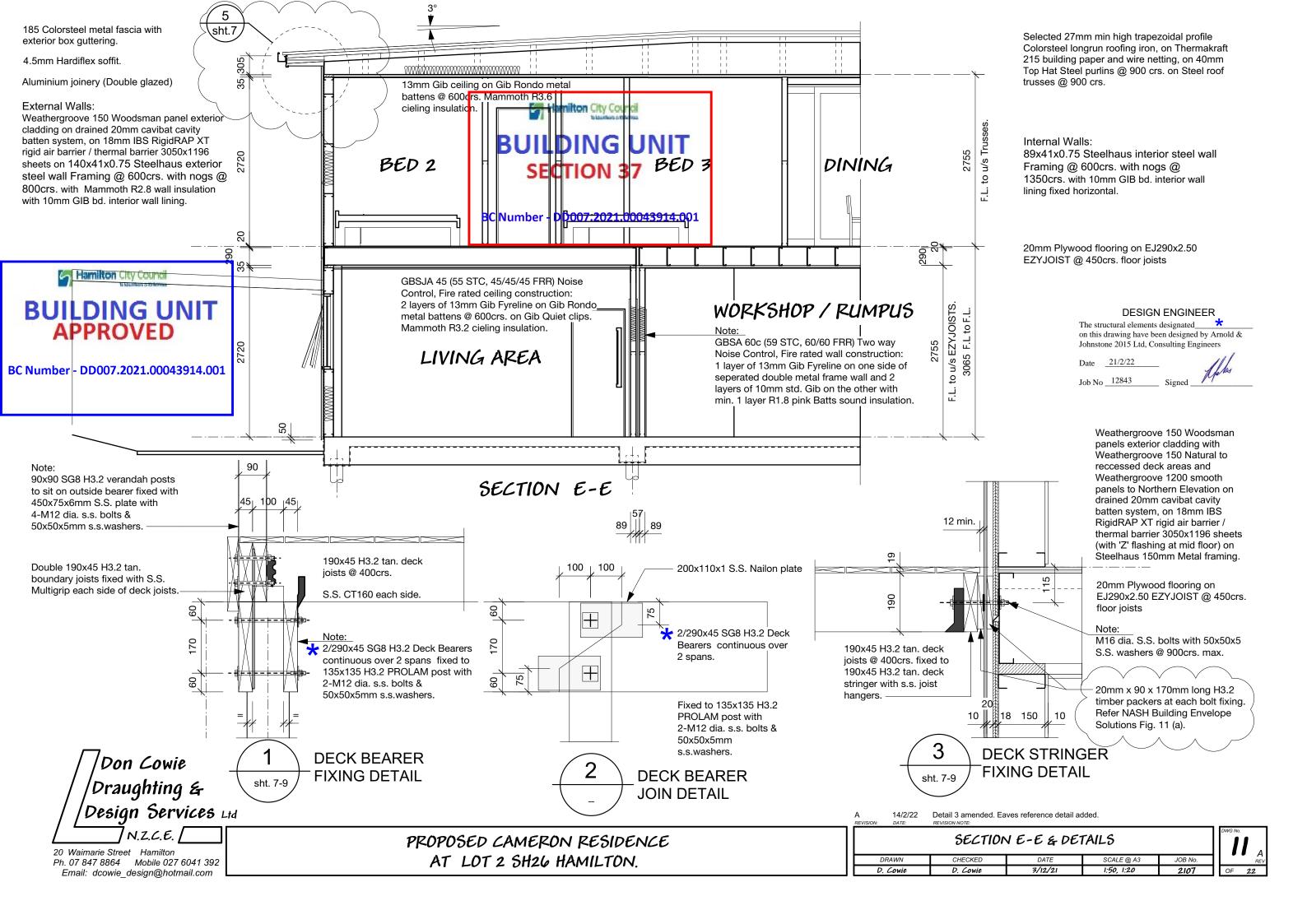


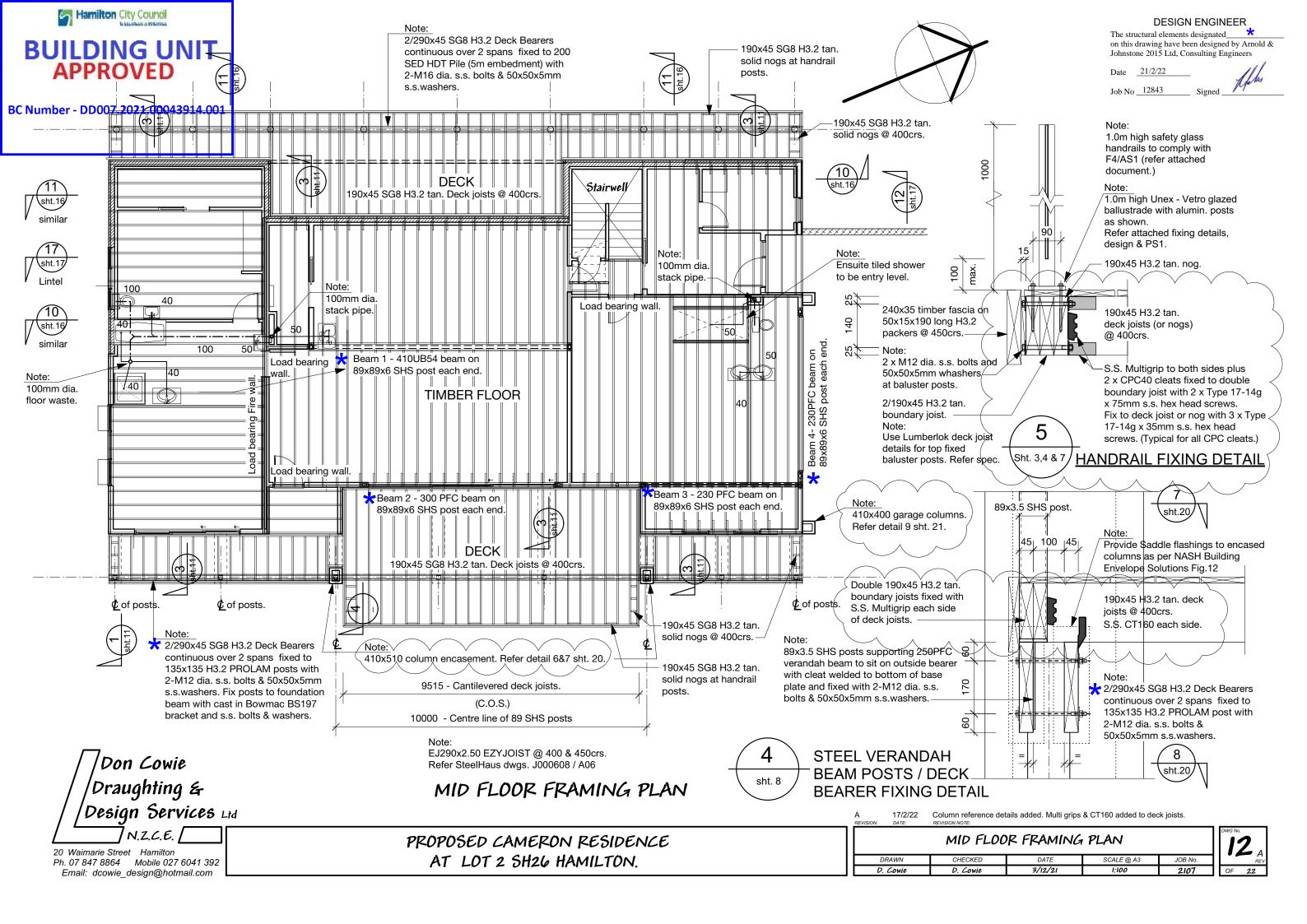


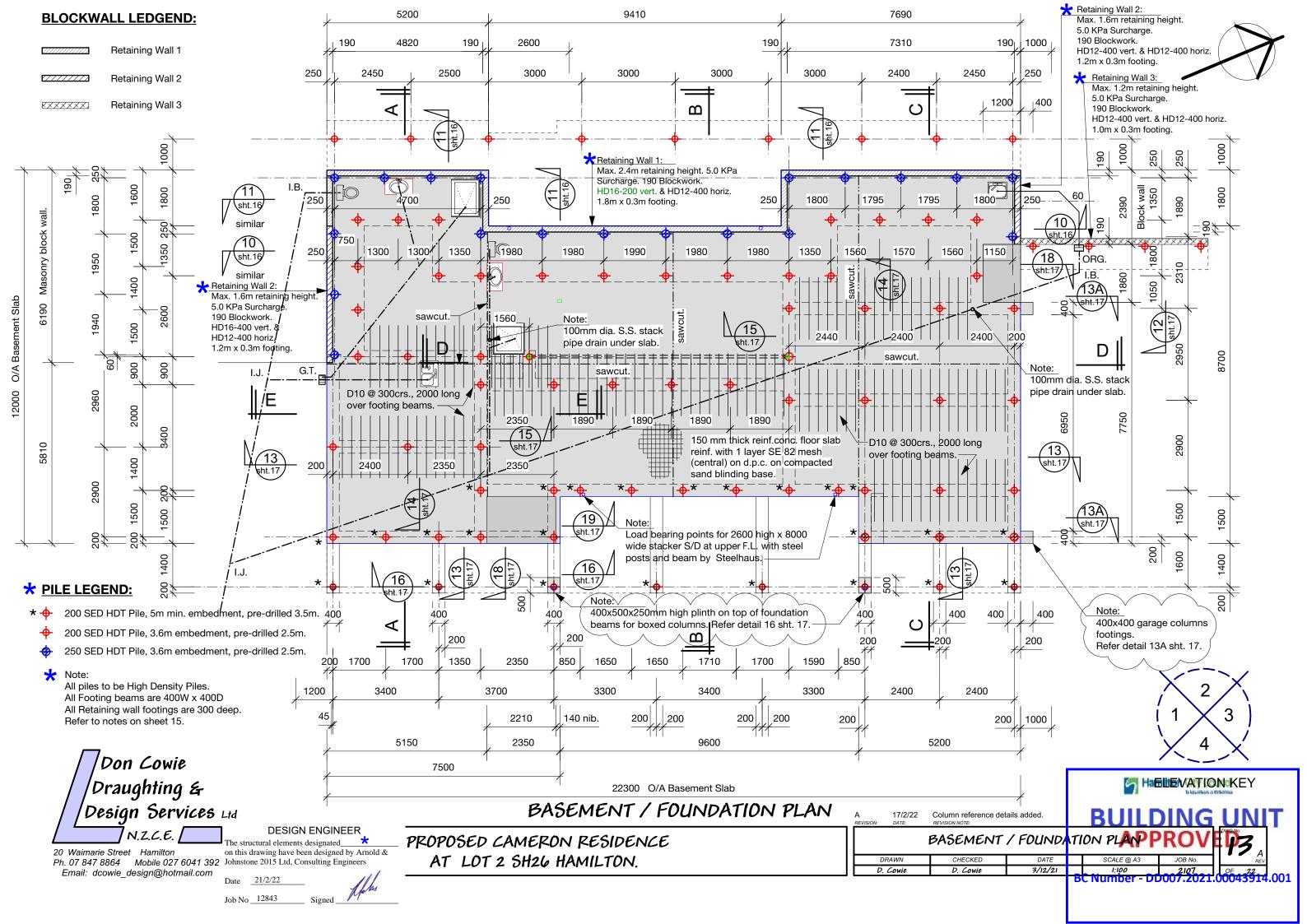


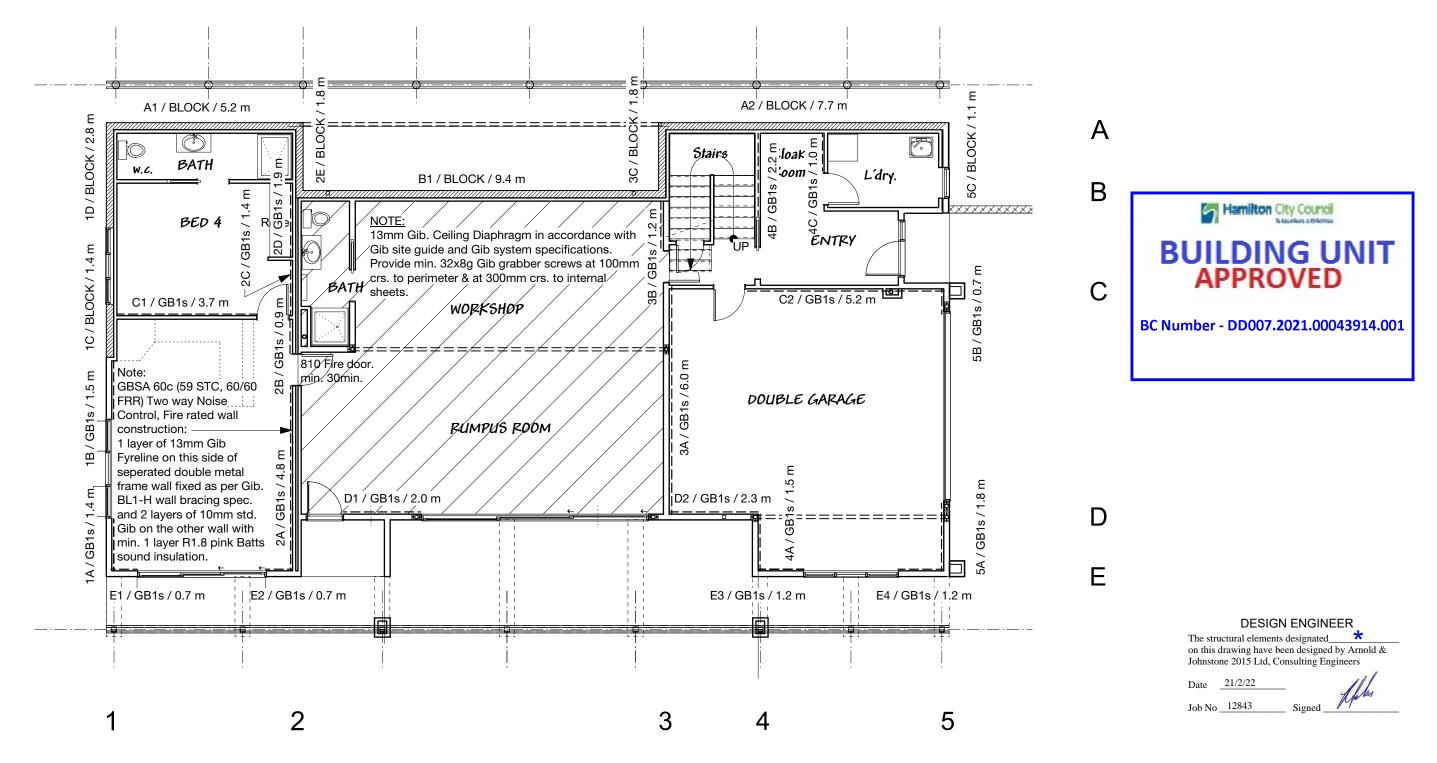












Note:

Refer to Gib Ezy Brace literature for full system installation details.

| Don Cowie | Draughting & Design Services Ltd

N.Z.C.E.

Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com

20 Waimarie Street Hamilton

* BASEMENT WALL BRACING PLAN

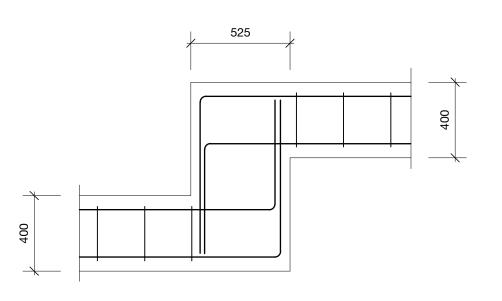
BASEMENT WALL BRACING LEGEND:

Brace Type	Lining requirement	Bottom plate fixing
GB1s	Min 10mm Gib Braceline on one side.	Gib EzyBrace end brace hold down washer as per NASH Gib System Specifications
BLOCK	190 series concrete blockwall.	N/A

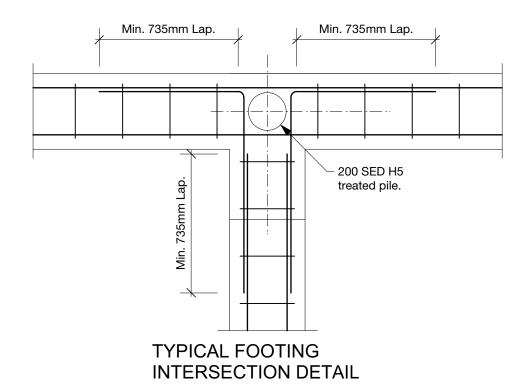
PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

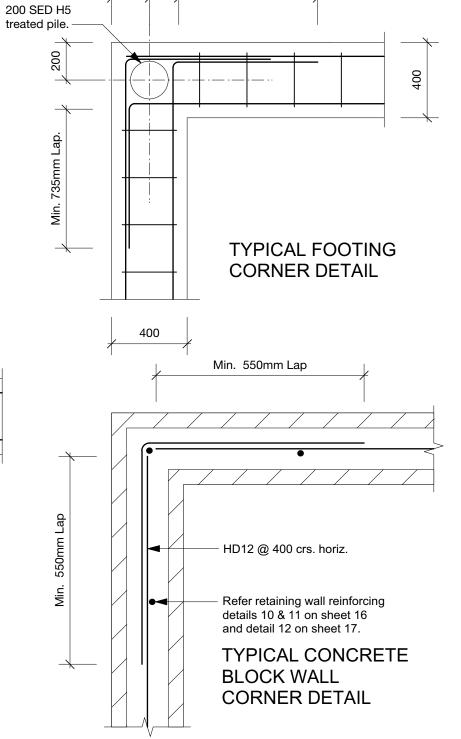
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BASEMENT WALL BRACING PLAN								
DF	RAWN	CHECKED	DATE	SCALE @ A3	JOB No.	11 Ť		
D.	Cowie	D. Cowie	3/12/21	1:100	2107	OF		





FOOTING STEP ELEVATION





Min. 735mm Lap.

200





The structural elements designated___ on this drawing have been designed by Arnold & Johnstone 2015 Ltd, Consulting Engineers

Job No 12843

PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

CONCRETE NOTES

- **CONCRETE TO BE 20MPa**
- ALL STEEL INCLUDING MESH SHALL BE DUCTILITY CLASS E IN ACCORDANCE WITH NZS 4671
- BAR REINFORCEMENT SHALL BE GRADE 500 UNO.
- LAP MESH 225mm MINIMUM OR GREATER IF MANUFACTURER RECOMMENDS.
- CONCRETE PLACING, FINISHING & CURING SHALL BE IN ACCORDANCE WITH NZS3109:1997.
- CURING OF THE CONCRETE MUST TAKE PLACE IMMEDIATELY AFTER FINISHING THE CONCRETE BY PONDING OR CONTINUOUSLY SPRINKLING OF
- 7 SHRINKAGE CONTROL JOINTS: GENERALLY SAW CUTS ARE TO COINCIDE WITH MAJOR CHANGES IN PLAN. WHERE THE CONCRETE IS TO BE EXPOSED OR BRITTLE COVERING PLACED OVER, SPACED AT 6m CENTRES MAXIMUM TO CREATE BAYS WITH LENGTH: WIDTH RATIO OF 2:1.
- SHRINKAGE CONTROL JOINTS SHALL BE FORMED BY SAW CUTTING 25mm DEEP AFTER CONCRETE HARDENING AND NO LATER THEN 24 HOURS.
- PLUMBING & SERVICES SHALL BE CONVEYED UNDERGROUND TO THEIR PLAN LOCATION AND THEN BROUGHT UP THROUGH THE SYSTEM. AT NO STAGE SHALL ANY OF THE REINFORCEMENT BARS BE RELOCATED OR CUT TO ALLOW FOR THE SERVICES. SERVICES ARE TO BE PLACED CENTRALLY WITHIN AN OPENING 50mm GREATER IN DIAMETER THAN THE PIPE. HORIZONTAL PENETRATIONS THROUGH BEAMS SHALL BE LOCATED IN THE CENTRAL THIRD. ALL PIPES SHALL BE WRAPPED IN DENSO TAPE AND THE GAP SEALED WITH COMPRESSIVE FOAM.
- PROVIDE MIN. 75MM COVER TO FOOTING REINFORCEMENT.

PILE NOTES

ALL PILES TO BE PLACED SMALL END DOWN AND DRIVEN TO THE FOLLOWING CRITERIA;

200 SED PILES:

HAMMER WEIGHT = 500kg

DROP = 1.0m

SET = 15mm / BLOW

250 SED PILES:

HAMMER WEIGHT = 500kg

DROP = 1.0m

SET = 10mm / BLOW

- MINIMUM PILE EMBEDMENT DEPTH TO BE 5m min. for leading edge piles.
- PRE-DRILL HOLES 2.5m. CARE IS TO BE TAKEN WHEN DRIVING PILES IN TERMS OF VIBRATION EFFECTS ON ADJACENT STRUCTURES & SERVICES
- ENGINEER TO OBSERVE THREE TEST PILES AT OPPOSITE ENDS OF THE SITE
- DRAWINGS TO BE READ IN CONJUNCTION WITH TITUS CONSULTING
- ENGINEERING ASSESSMENT AND DESIGN REPORT 11122 DATED 19 JUNE 2020
- CUT TOP SURFACES ON PILES TO BE TREATED WITH TWO COATS OF METALEX
- ALL PILES TO BE HIGH DENSITY PILES
- ALL PILES TO BE TREATMENT CLASS H5
- BACKFILL HOLES AROUND LEADING EDGE PILES WITH LOOSE SAND OR CONCRETE TO ENSURE NO VOIDS ARE PRESENT.

MASONRY NOTES

- ALL MASONRY WALL SHALL BE LAID STRETCHER (RUNNING) BOND
- ALL MASONRY GROUT TO BE 20MPa MIN. STRENGTH AFTER 28 DAYS
- ALL GROUTING SHALL BE CARRIED OUT USING THE HIGH LIFT GROUTING 3
- ALL MASONRY UNITS SHALL BE SOLID FILLED WITH GROUT
- ALL WALL ENDS TO BE TRIMMED WITH HD12 BAR (U.N.O.) ALL WALLS TO HAVE HD12 BOND BEAM AT TOP UNO
- PROVIDE CONTROL JOINTS: MAXIMUM 5.0m CENTRES OR ONE SIDE OF DOOR OPENINGS
- CONTROL JOINTS ARE NOT REQUIRED IN RETAINING WALLS (U.N.O.)
- ALL HORIZONTAL AND VERTICAL WALL REINFORCEMENT TO HAVE 200mm HOOK RETURN ENDS

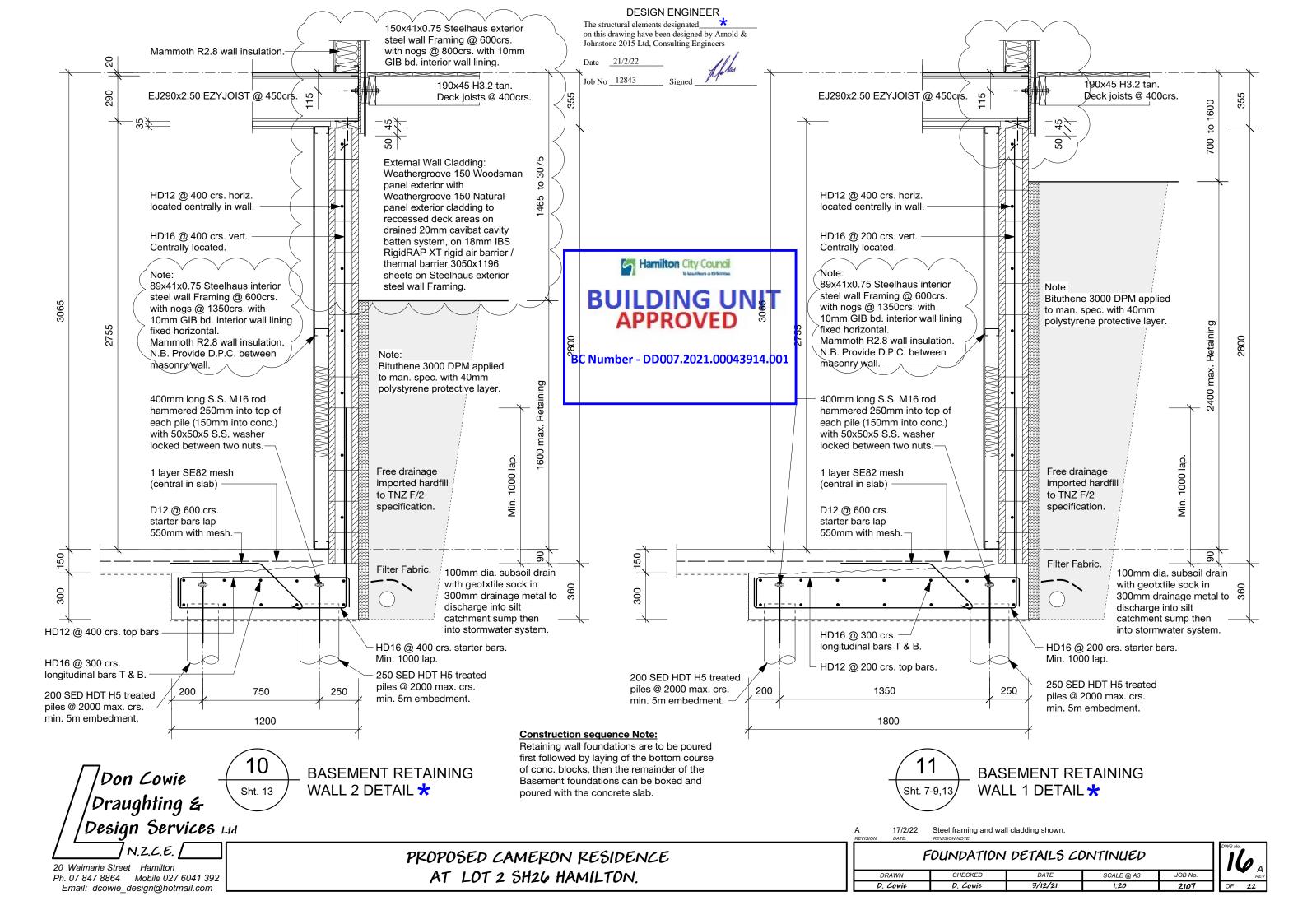
* FOUNDATION NOTES & DETAILS SCALE @ A3 JOB No 3/12/21 D Cowie 1:20 D Cowie

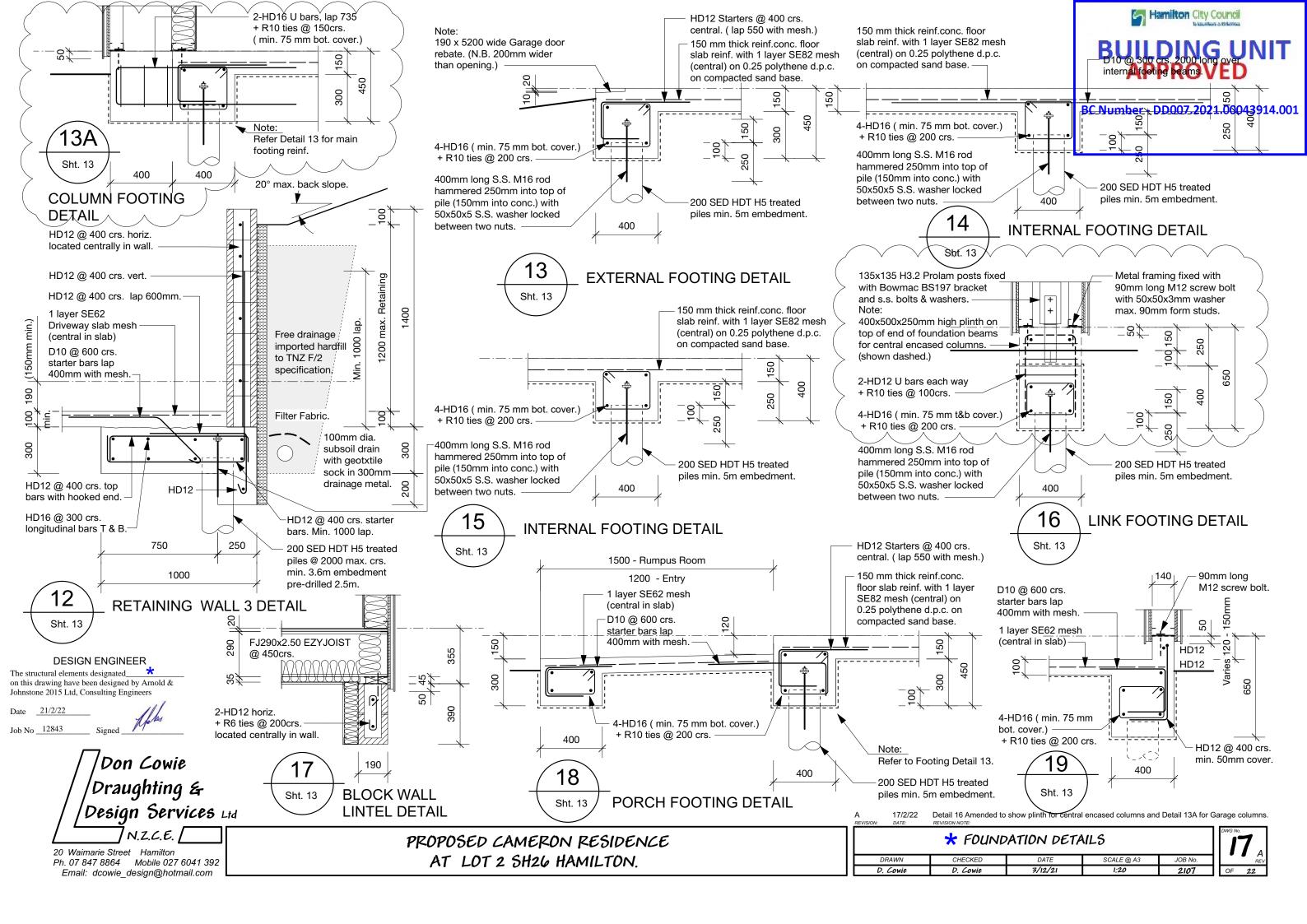


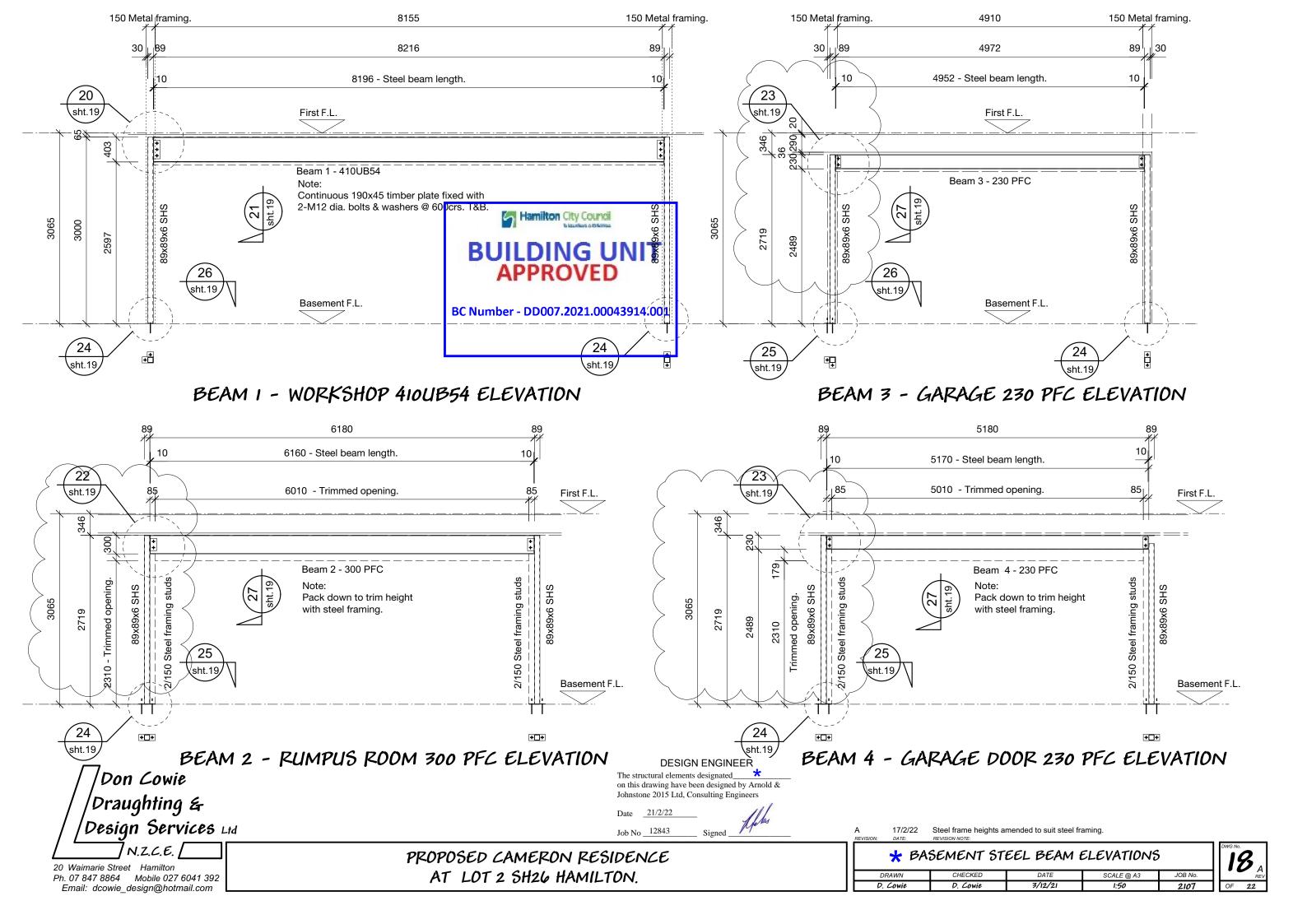


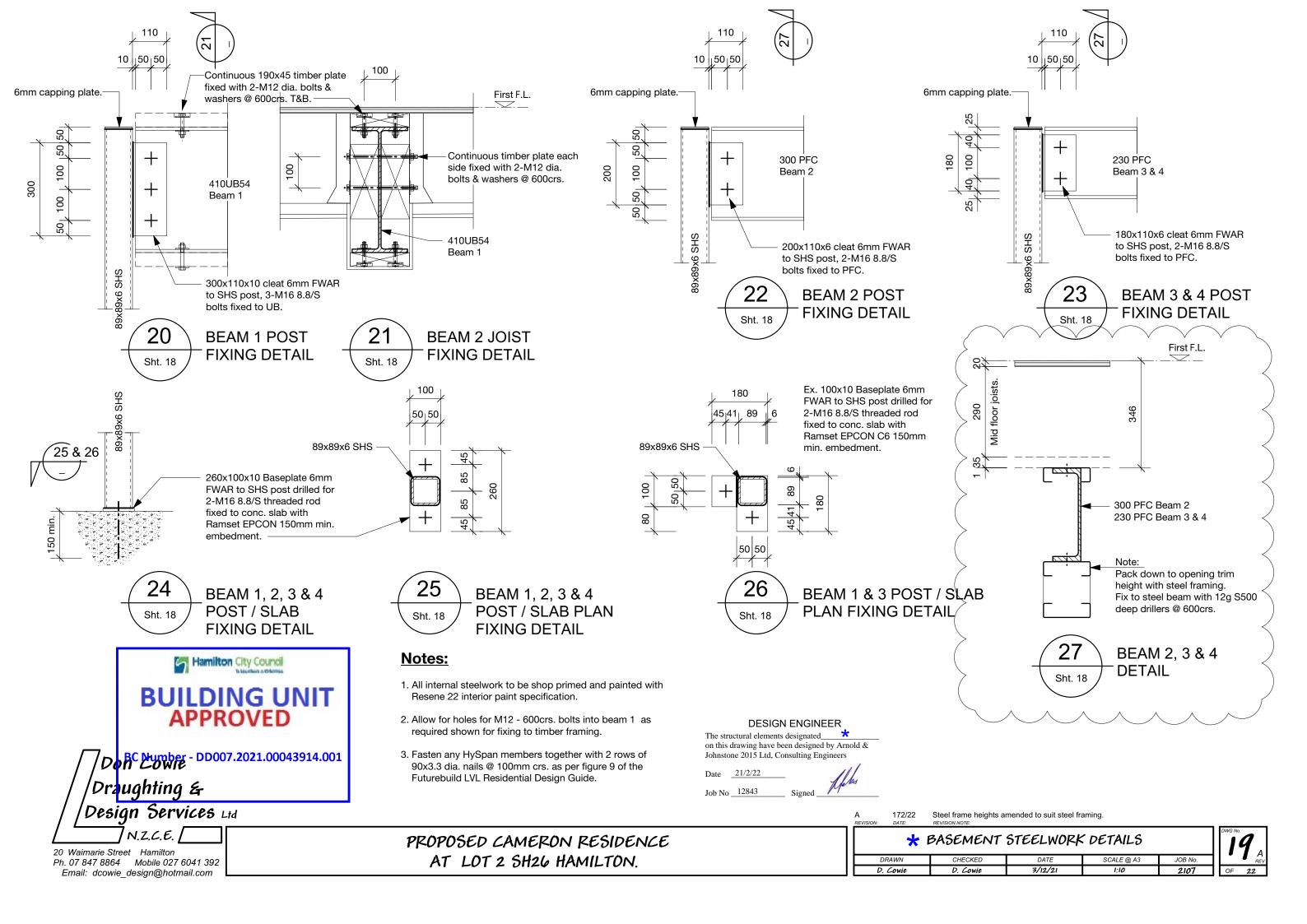
Draughting &

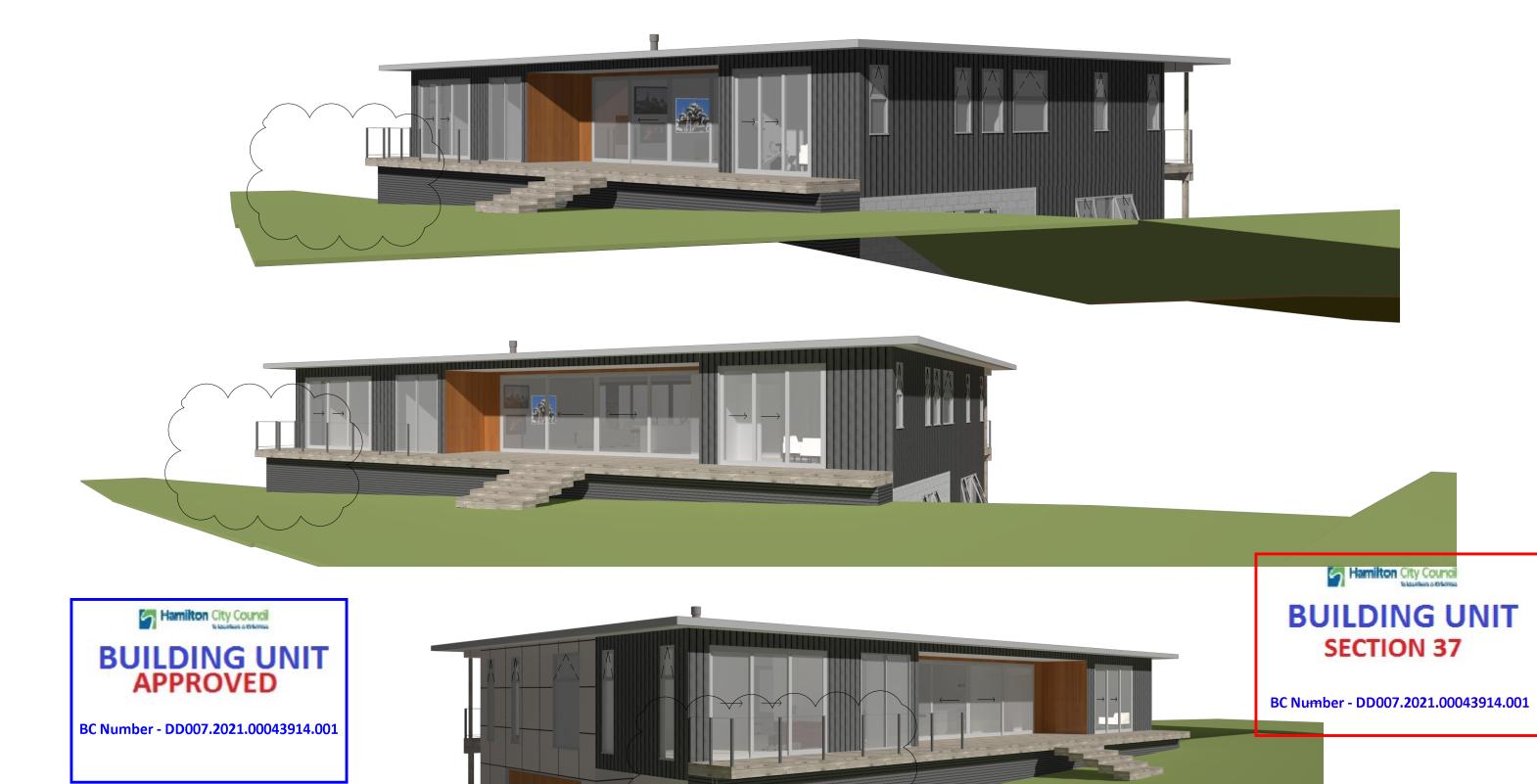
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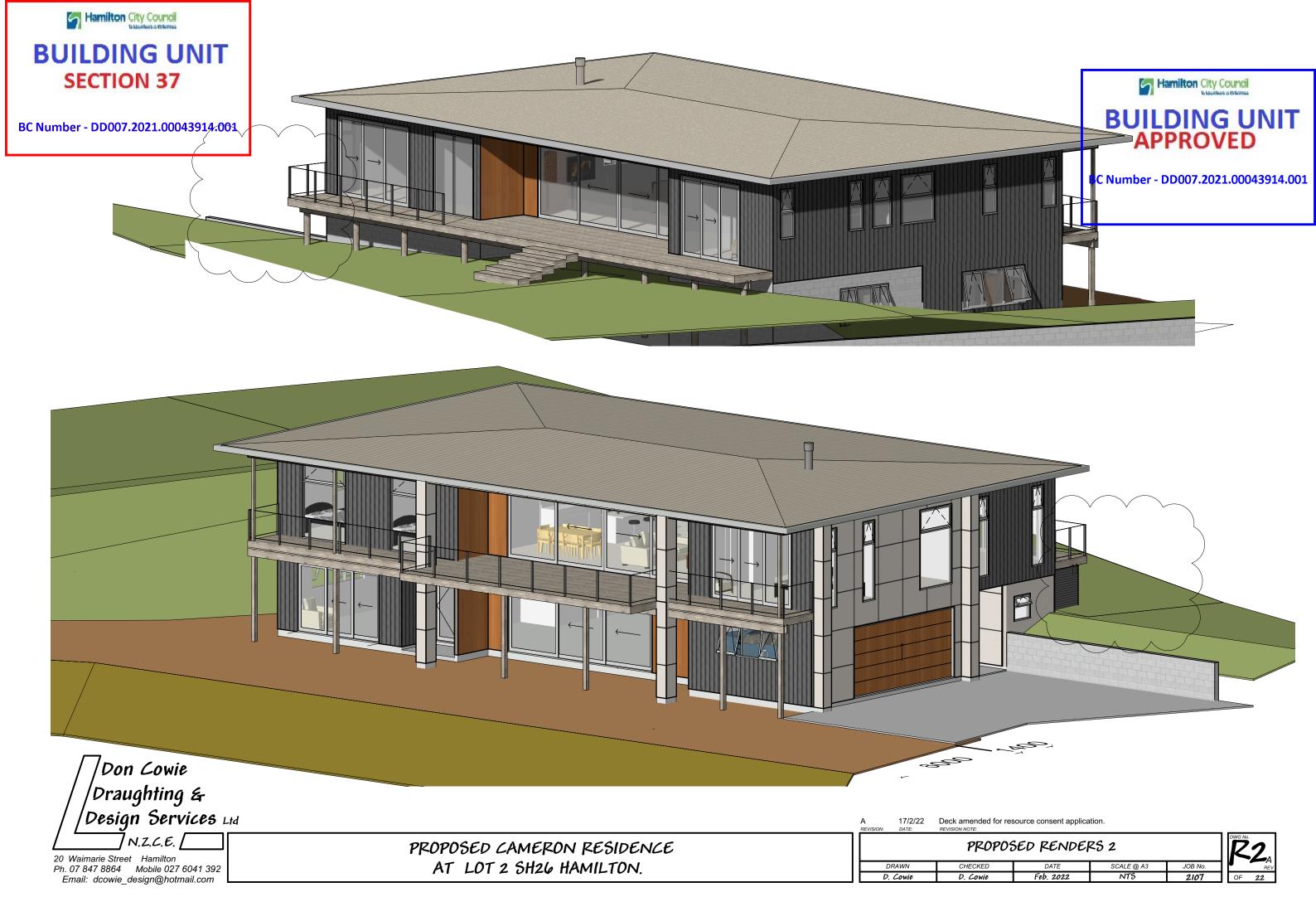
_____ N.Z.C.E. [

20 Waimarie Street Hamilton Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON. 17/2/22 Deck amended for resource consent application.

DATE: REVISION NOTE:

PROPOSED RENDERS I						
DRAWN	CHECKED	DATE	SCALE @ A3	JOB No.	11	
D Cowie	D Cowie	Feb 2022	NTS	2107	7 Г	









BC Number - DD007.2021.00043914.001

BC Number - DD007.2021.00043914.001



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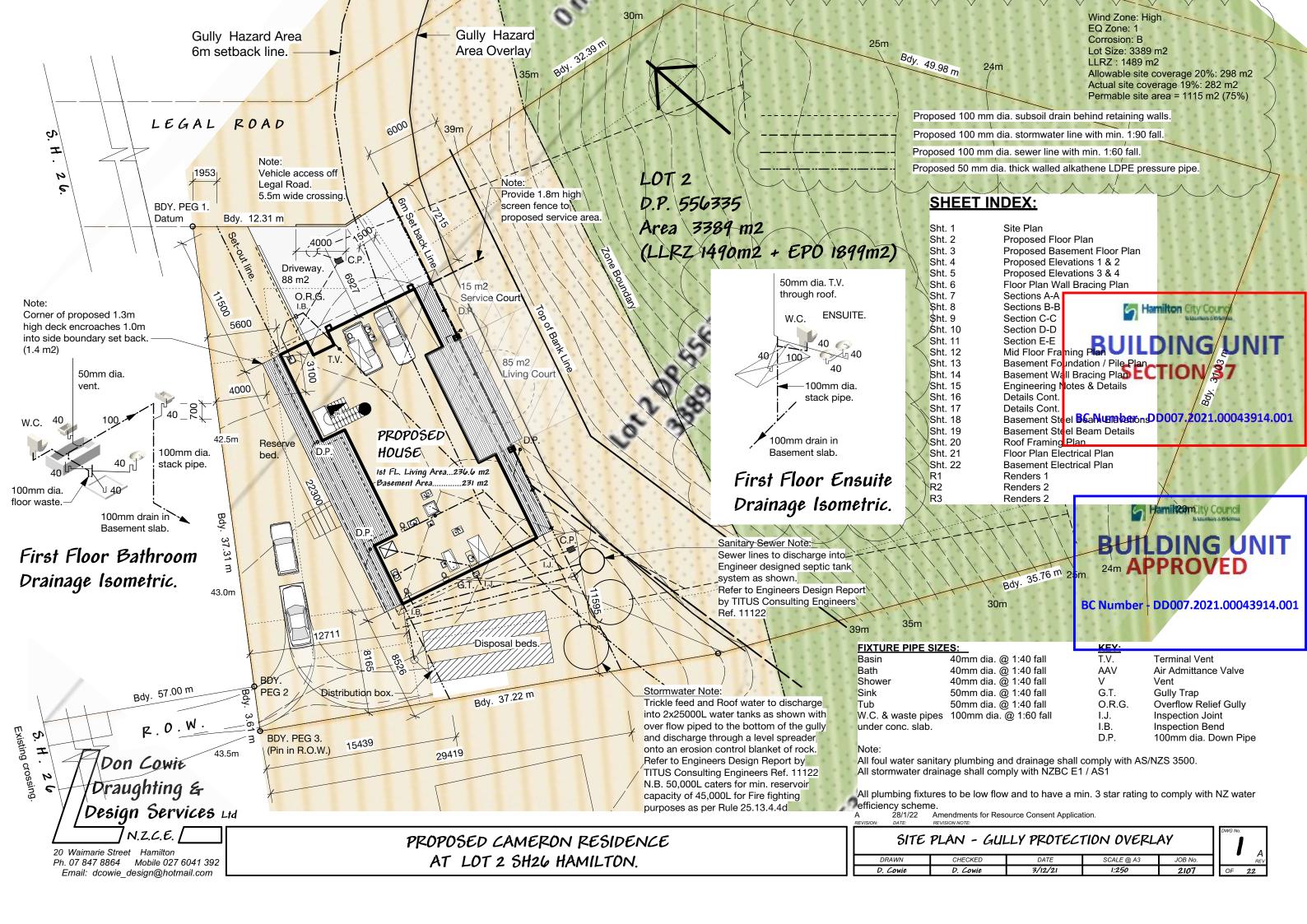
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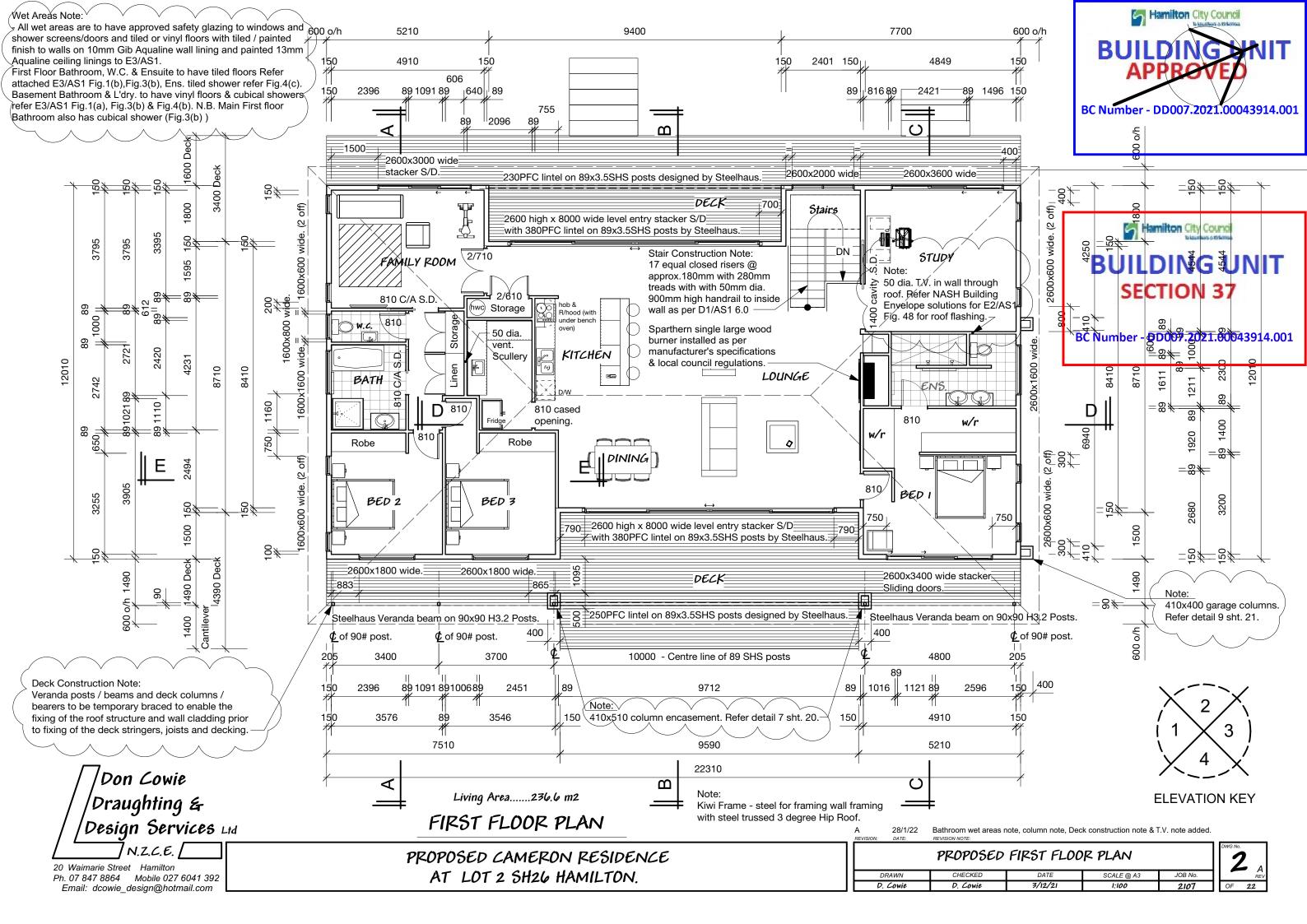
PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON. 17/2/22 Deck amended for resource consent application.

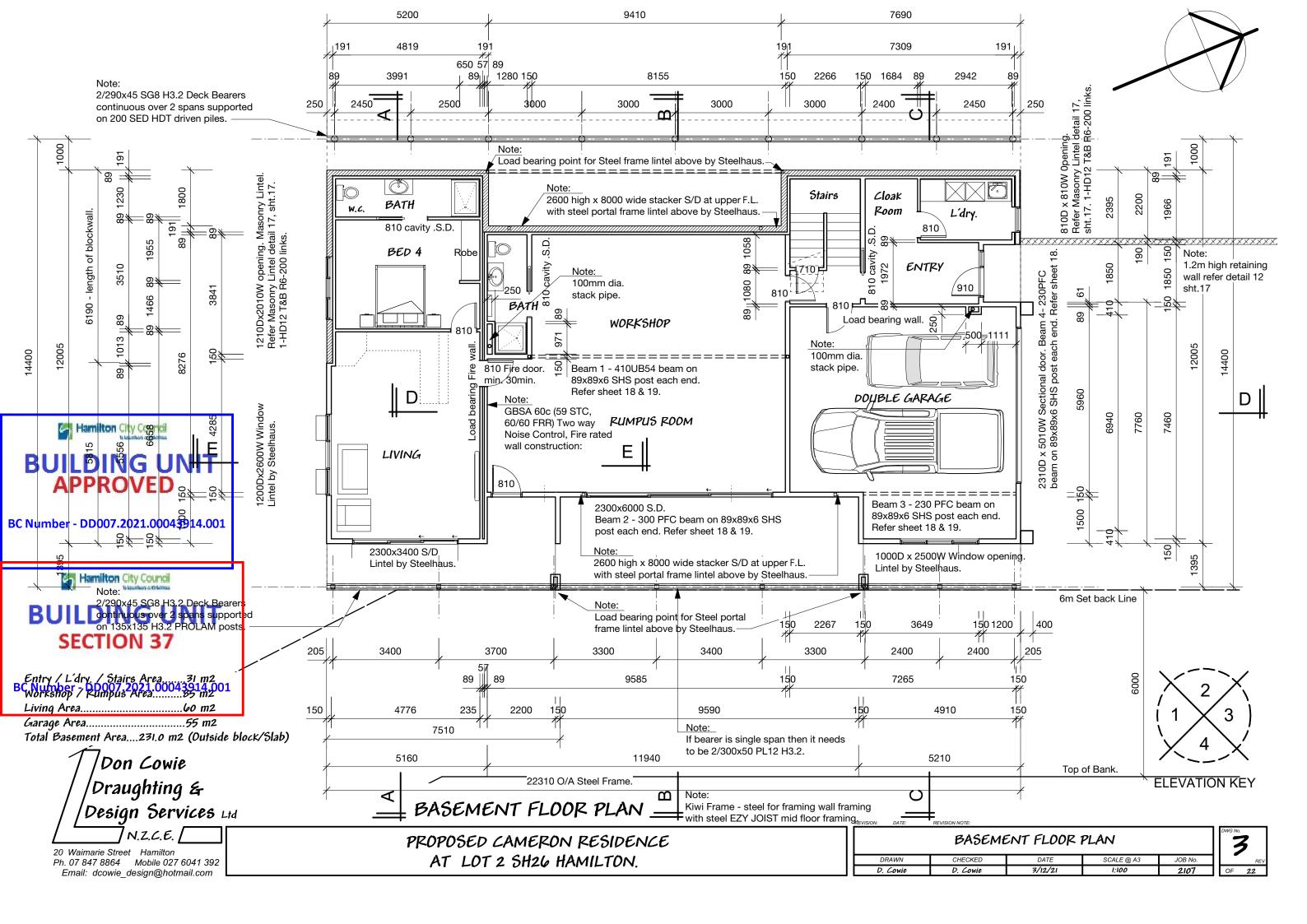
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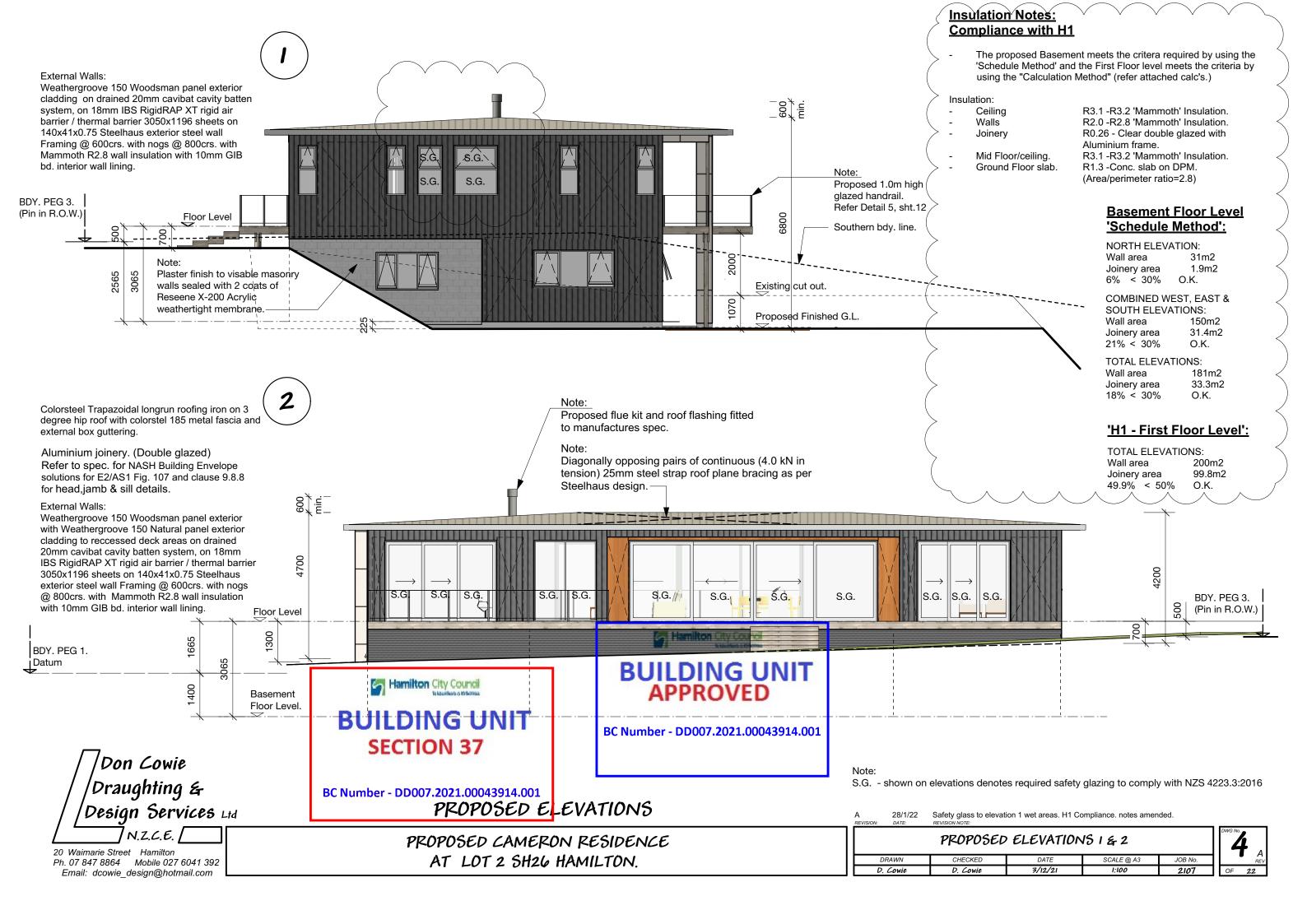
PROPOSED RENDERS 3					
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D. Cowie	D. Cowie	Feb. 2022	NTS	2107	IΓ

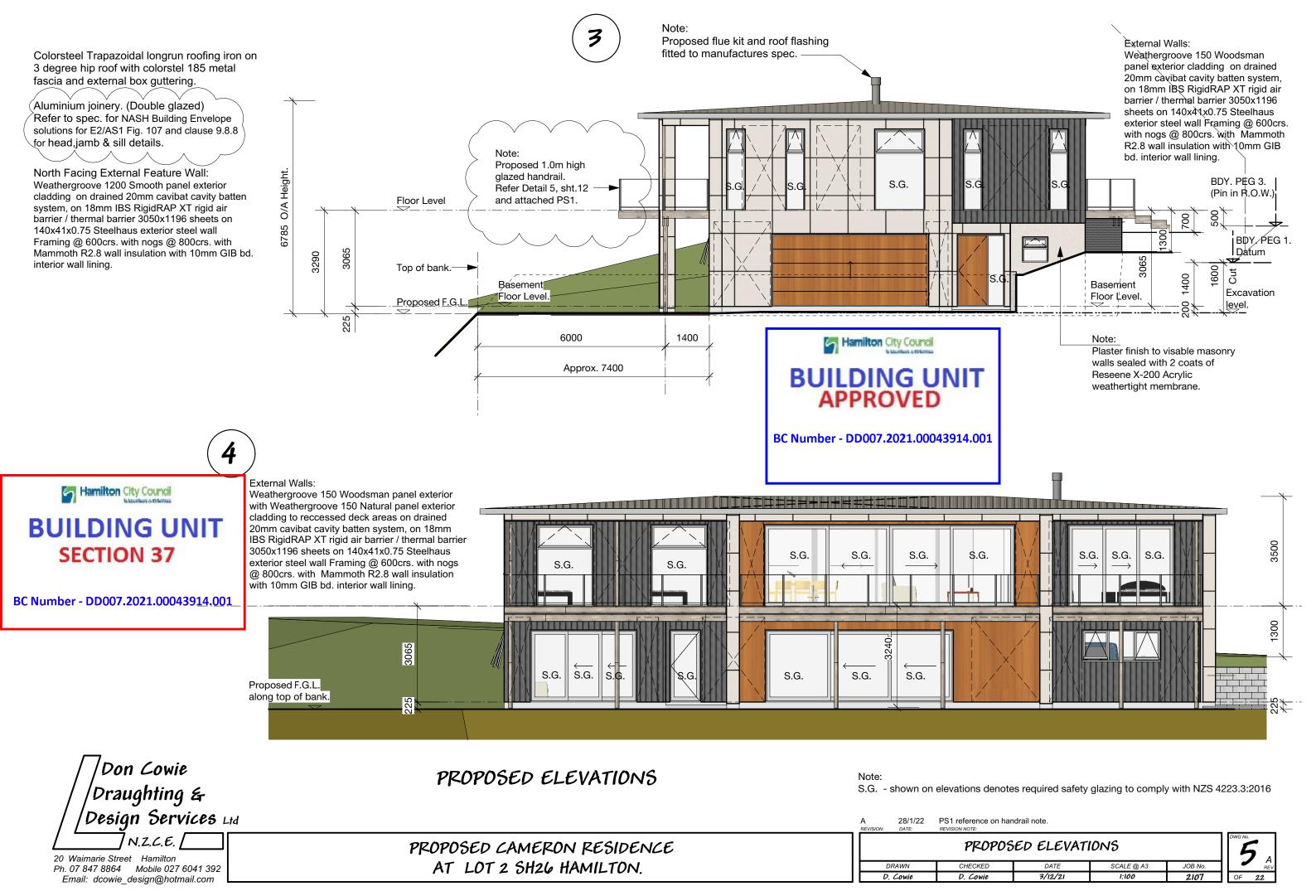




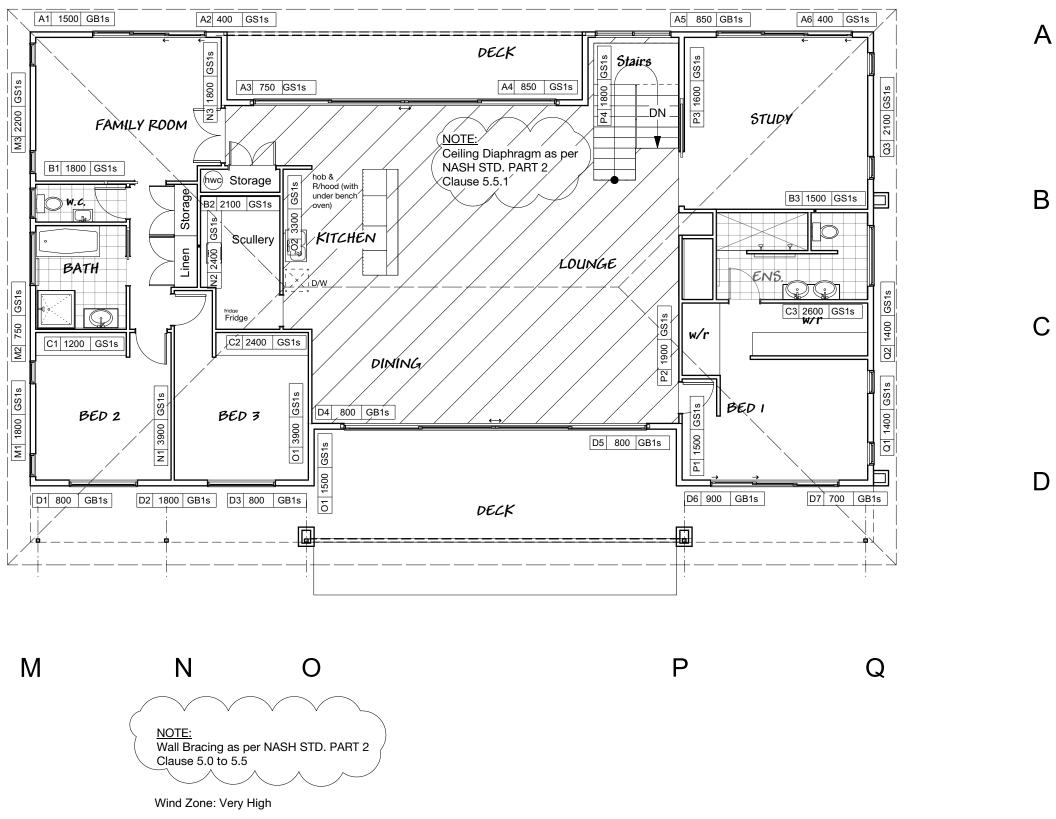












Don Cowie Draughting & Design Services Ltd N.Z.C.E. /

WALL BRACING PLAN

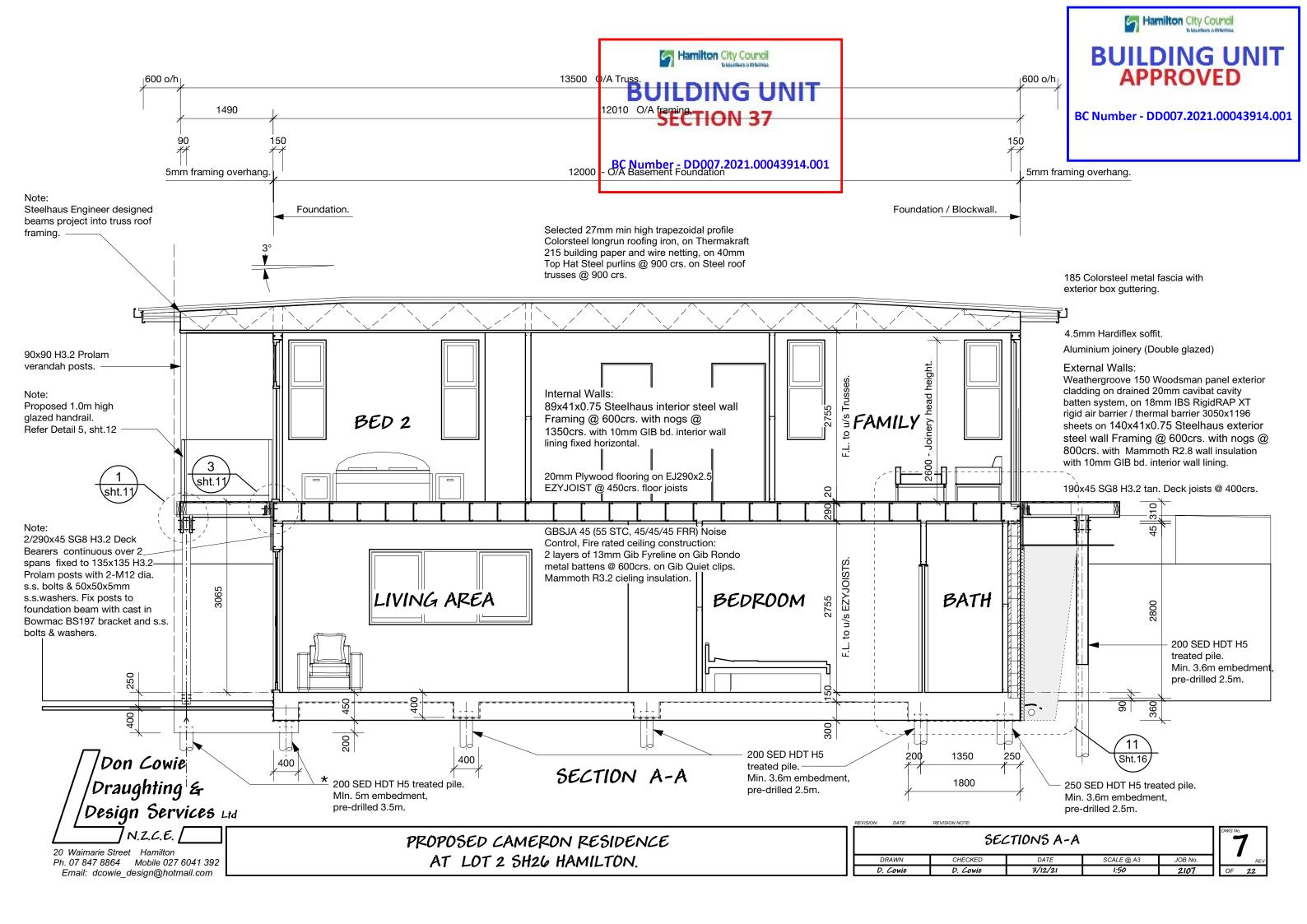
PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

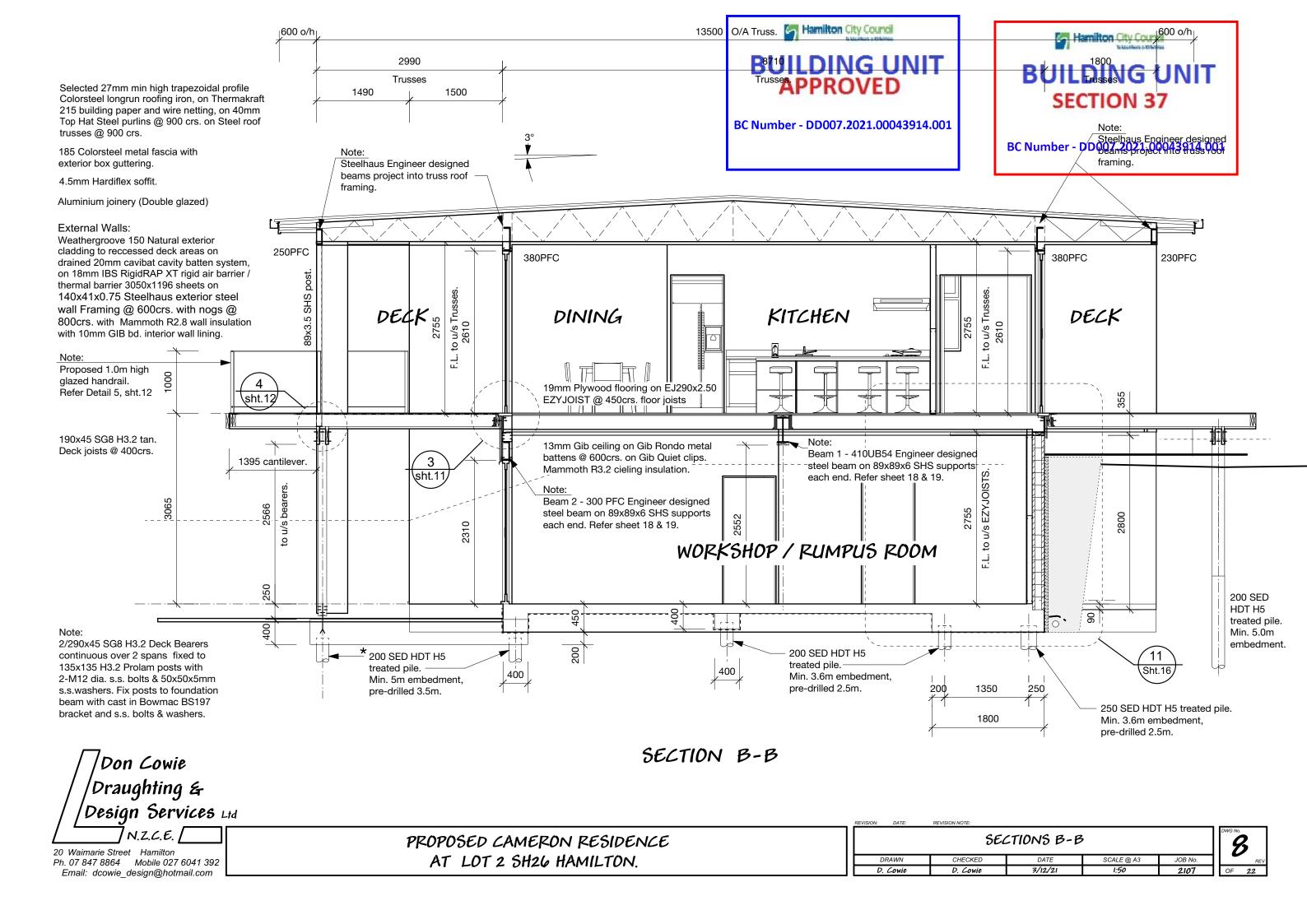
Wall Bracing designed to NASH STD. PART 2.

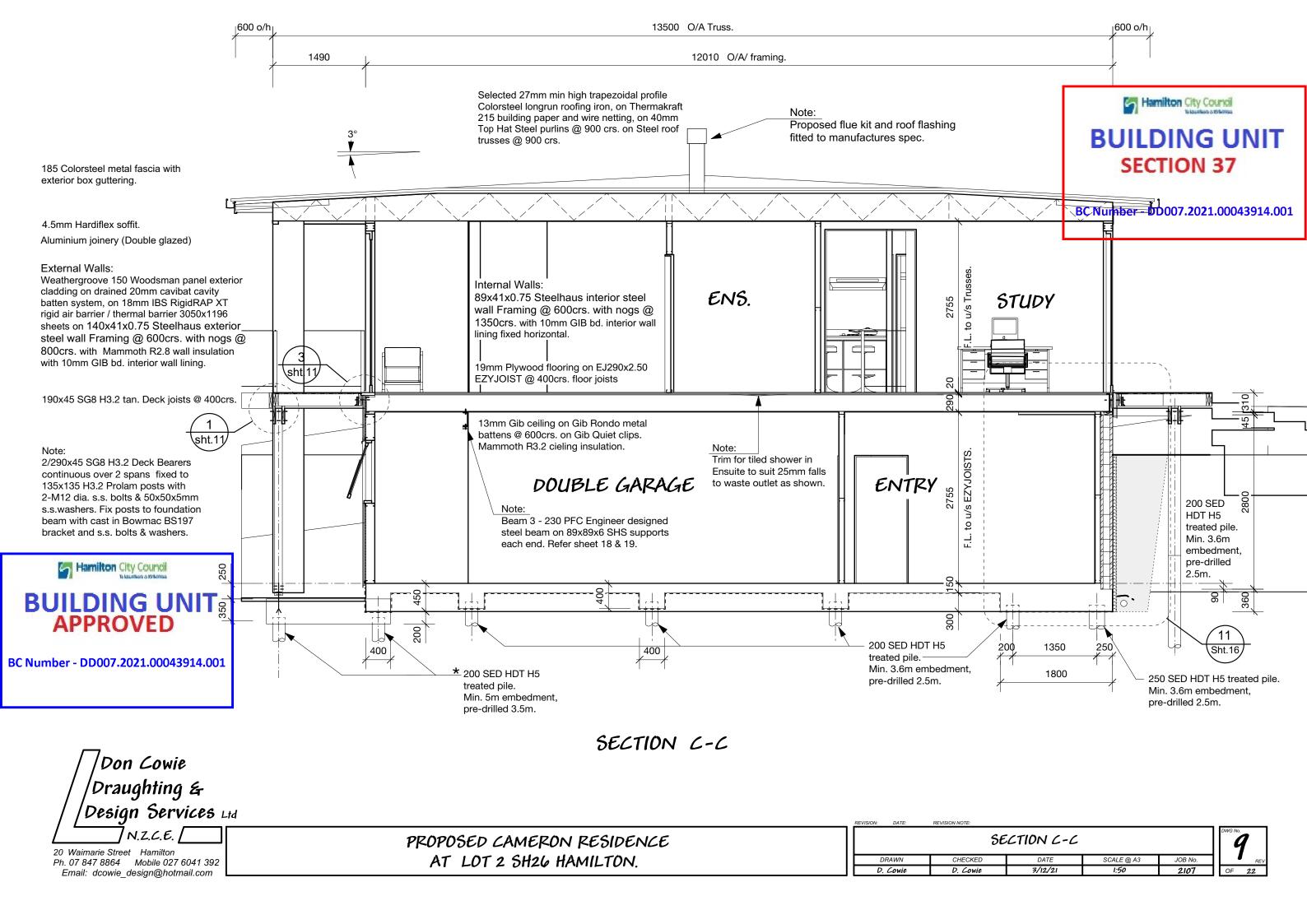
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FIRST FLOOR WALL BRACING PLAN							
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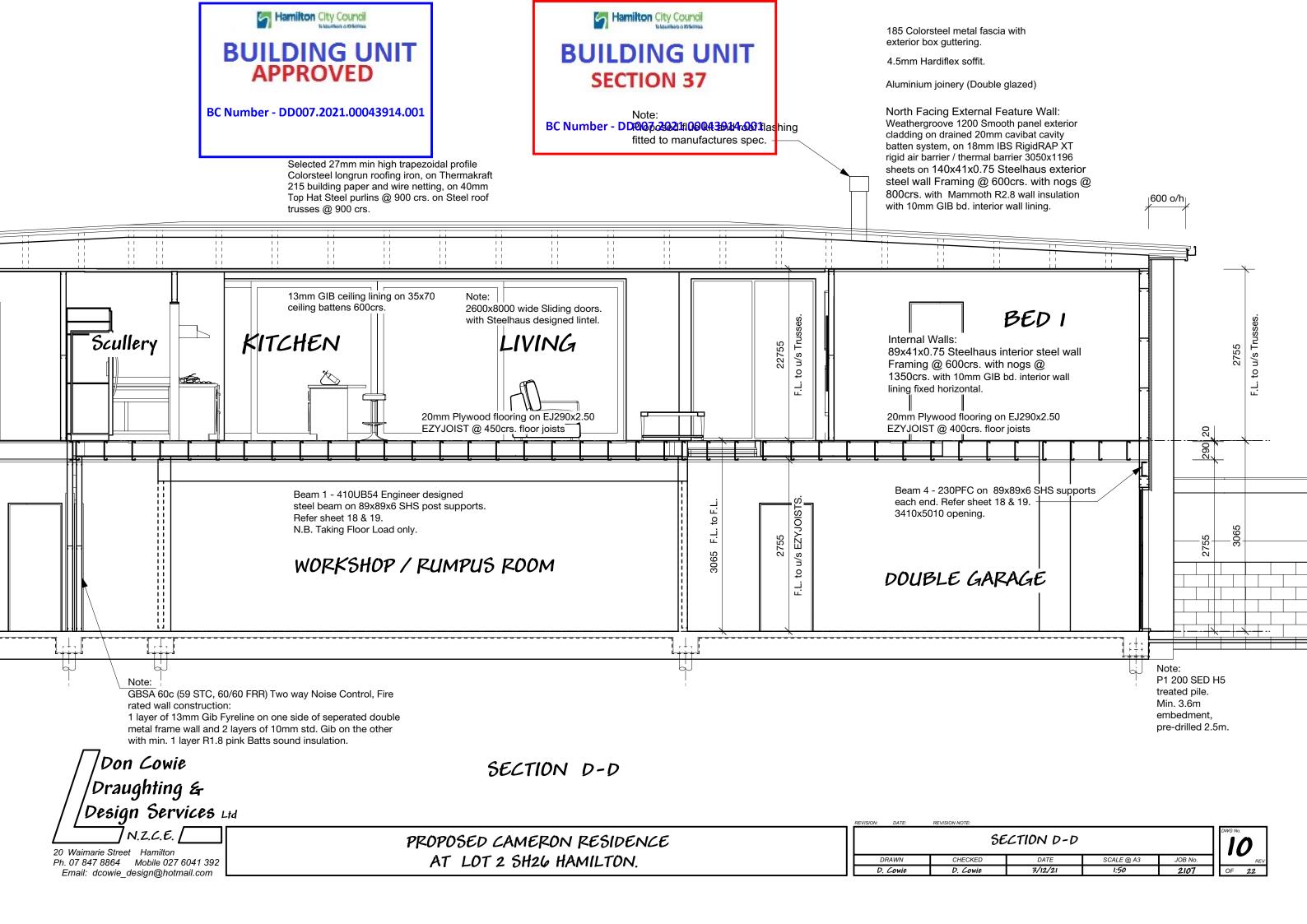


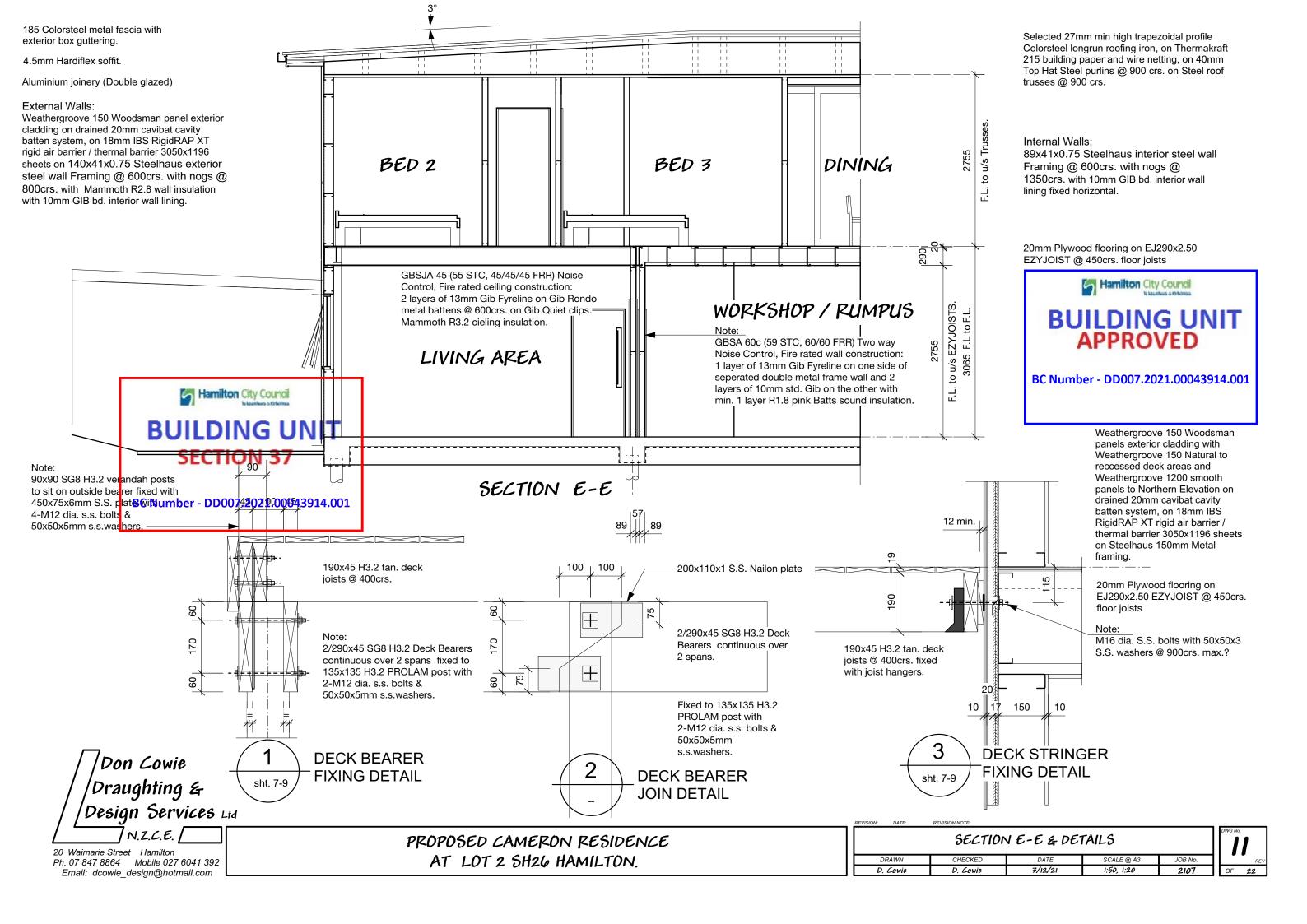
20 Waimarie Street Hamilton Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com

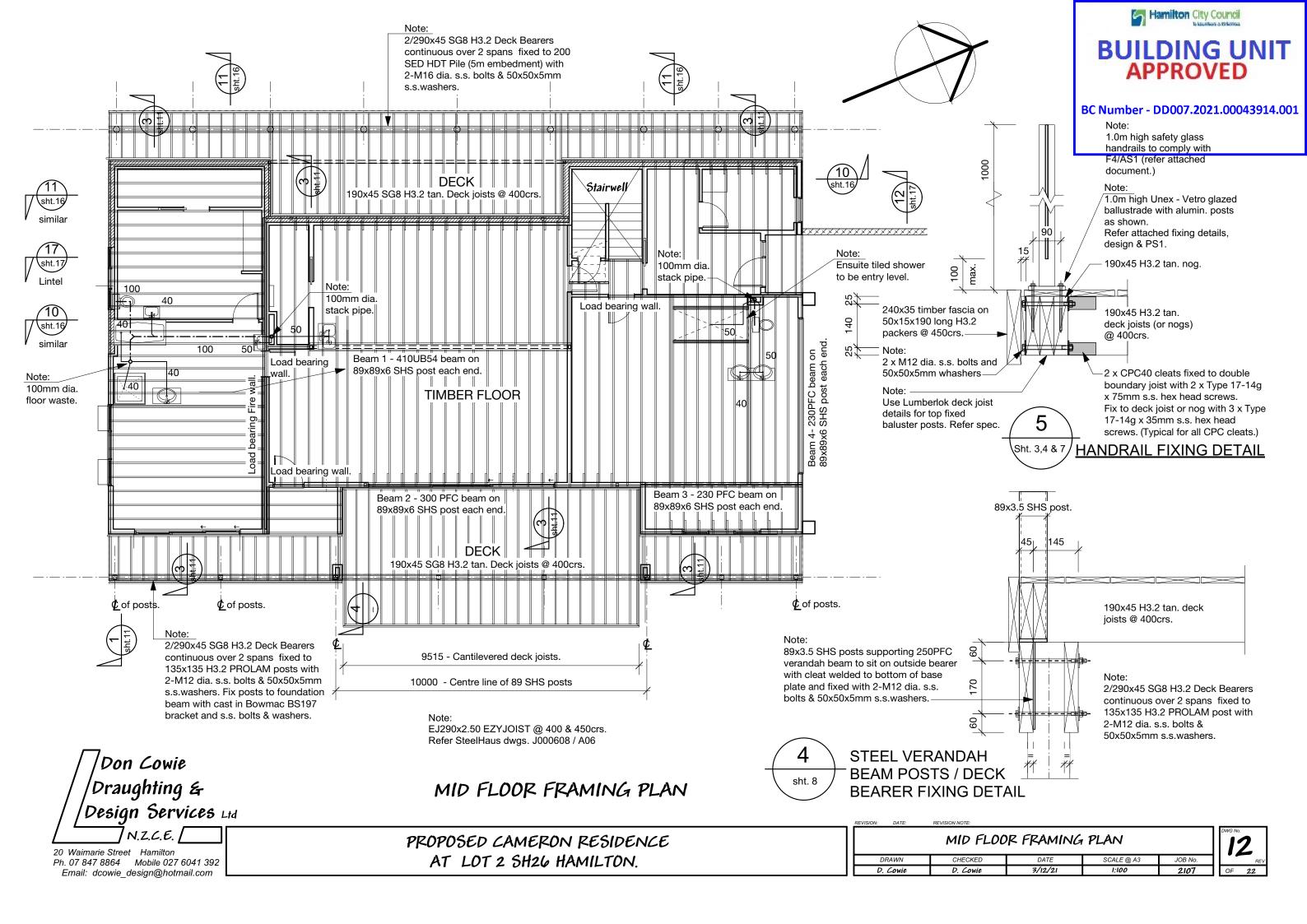


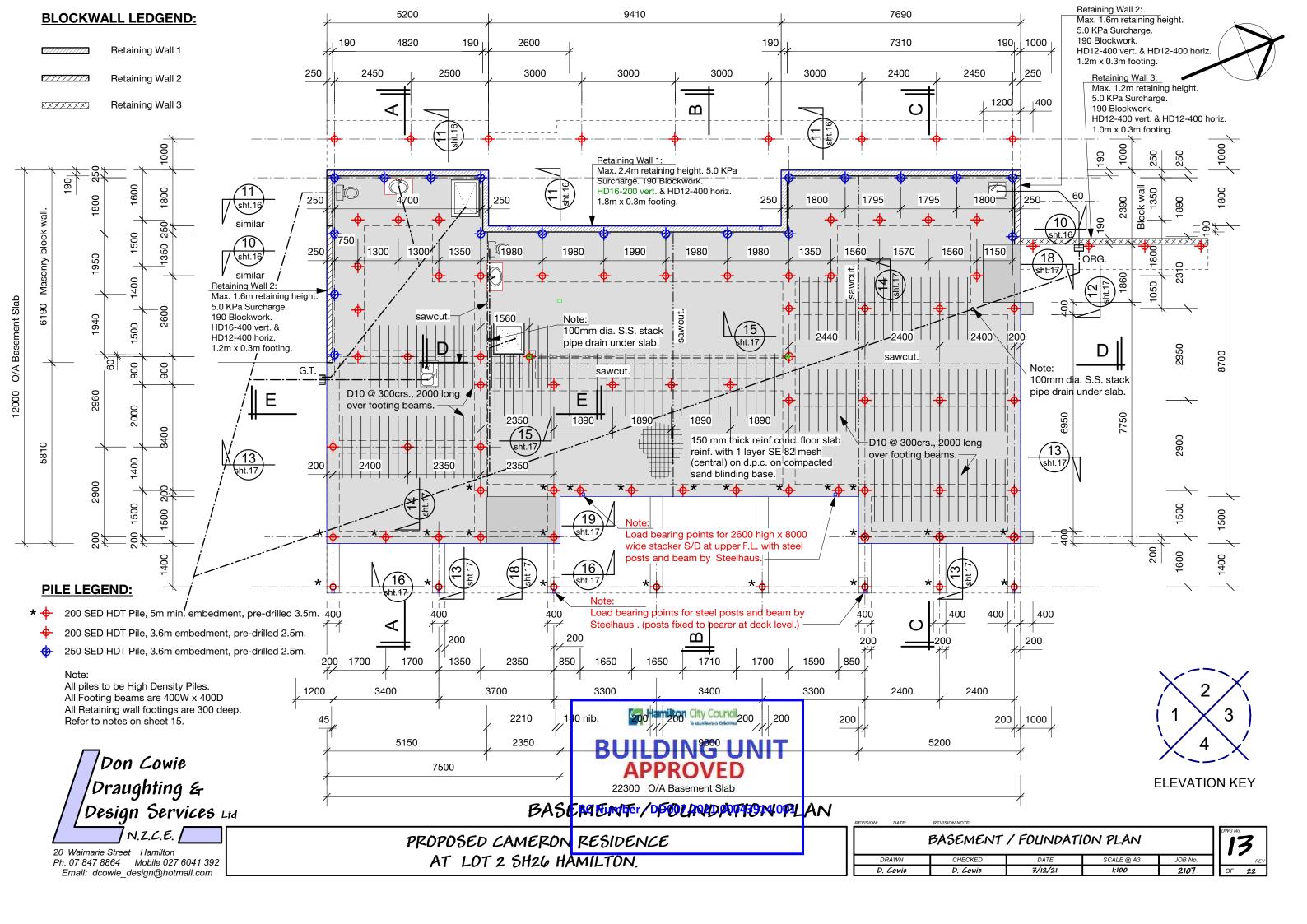


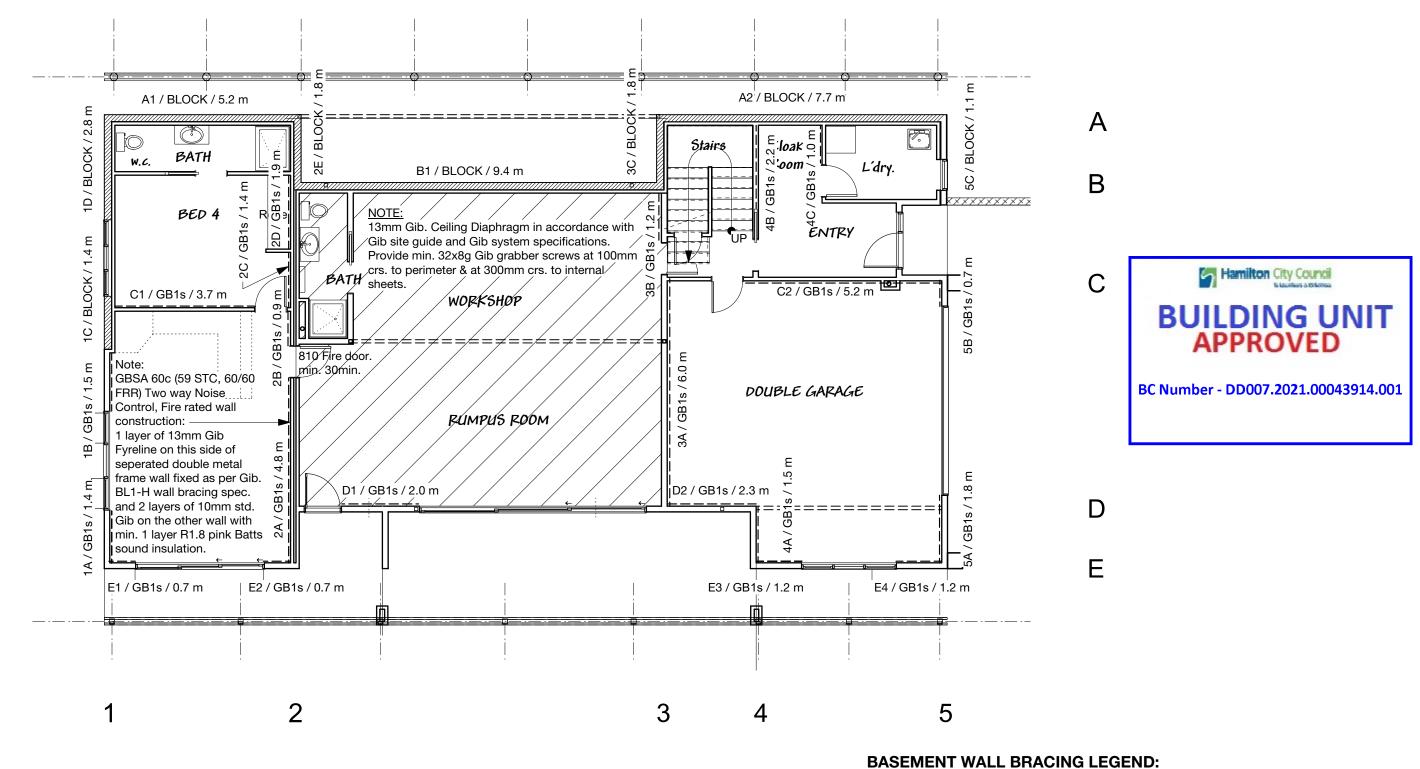












Note:

Don Cowie

Draughting &

N.Z.C.E.

Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com

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Refer to Gib Ezy Brace literature for full system installation details.

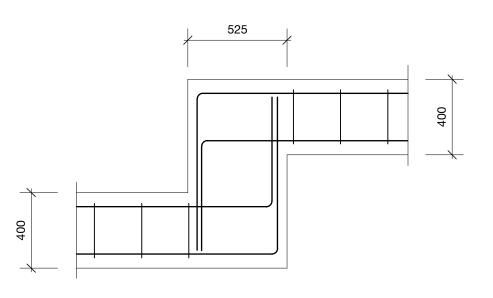
BASEMENT WALL BRACING PLAN

Brace Type	Lining requirement	Bottom plate fixing
GB1s	Min 10mm Gib Braceline on one side.	Gib EzyBrace end brace hold down washer as per NASH Gib System Specifications
BLOCK	190 series concrete blockwall.	N/A

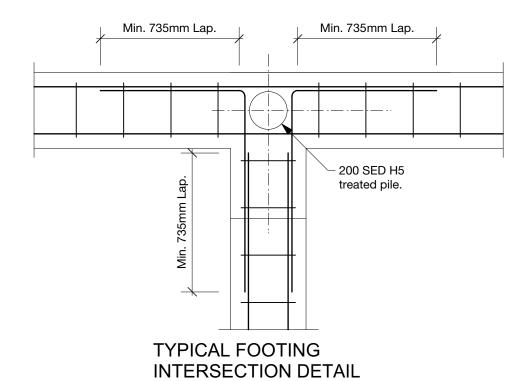
PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

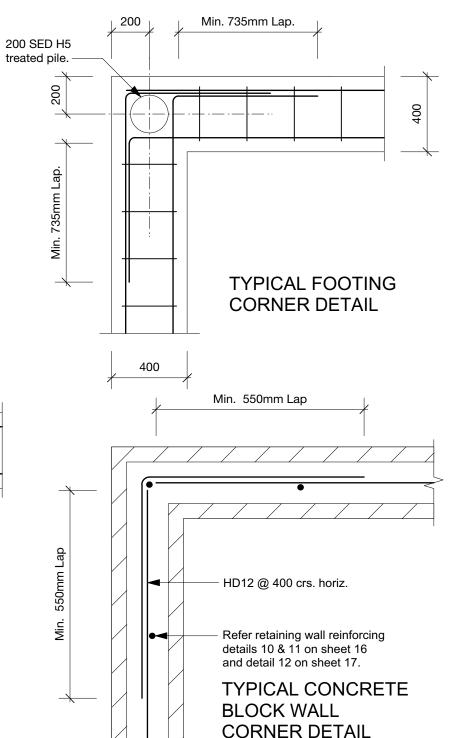
				REVISION NOTE:	DATE:	VISION:		
DWG	BASEMENT WALL BRACING PLAN							
ור י	JOB No.	SCALE @ A3	DATE	CHECKED	RAWN	D		
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FOOTING STEP ELEVATION







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PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

CONCRETE NOTES

- **CONCRETE TO BE 20MPa**
- ALL STEEL INCLUDING MESH SHALL BE DUCTILITY CLASS E IN ACCORDANCE WITH NZS 4671
- BAR REINFORCEMENT SHALL BE GRADE 500 UNO.
- LAP MESH 225mm MINIMUM OR GREATER IF MANUFACTURER RECOMMENDS.
- CONCRETE PLACING, FINISHING & CURING SHALL BE IN ACCORDANCE WITH NZS3109:1997.
- CURING OF THE CONCRETE MUST TAKE PLACE IMMEDIATELY AFTER FINISHING THE CONCRETE BY PONDING OR CONTINUOUSLY SPRINKLING OF
- 7 SHRINKAGE CONTROL JOINTS: GENERALLY SAW CUTS ARE TO COINCIDE WITH MAJOR CHANGES IN PLAN. WHERE THE CONCRETE IS TO BE EXPOSED OR BRITTLE COVERING PLACED OVER, SPACED AT 6m CENTRES MAXIMUM TO CREATE BAYS WITH LENGTH: WIDTH RATIO OF 2:1.
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PILE NOTES

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DROP = 1.0m

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SET = 10mm / BLOW

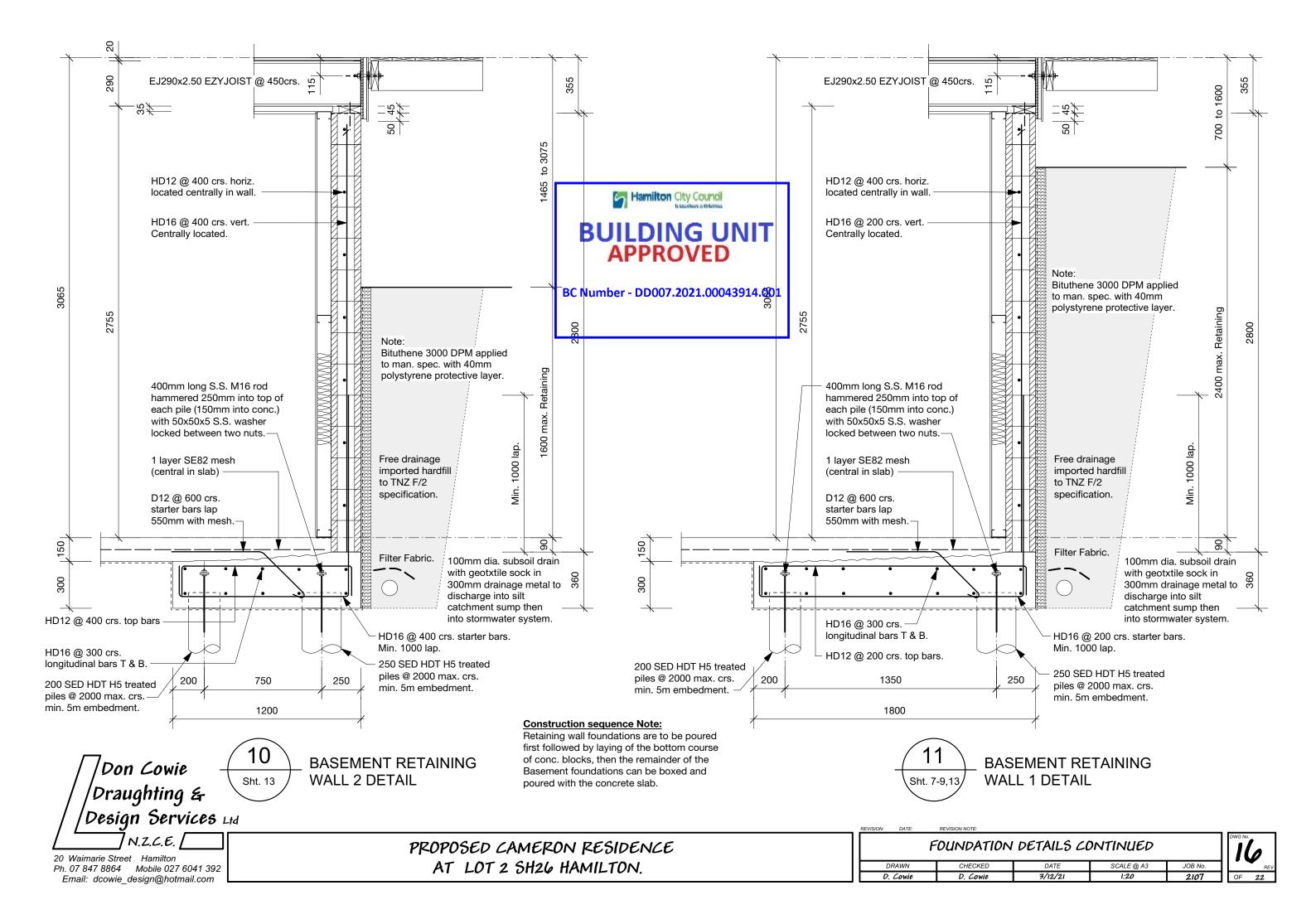
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- ENGINEERING ASSESSMENT AND DESIGN REPORT 11122 DATED 19 JUNE 2020 CUT TOP SURFACES ON PILES TO BE TREATED WITH TWO COATS OF
- METALEX
- ALL PILES TO BE HIGH DENSITY PILES
- ALL PILES TO BE TREATMENT CLASS H5
- BACKFILL HOLES AROUND LEADING EDGE PILES WITH LOOSE SAND OR CONCRETE TO ENSURE NO VOIDS ARE PRESENT.

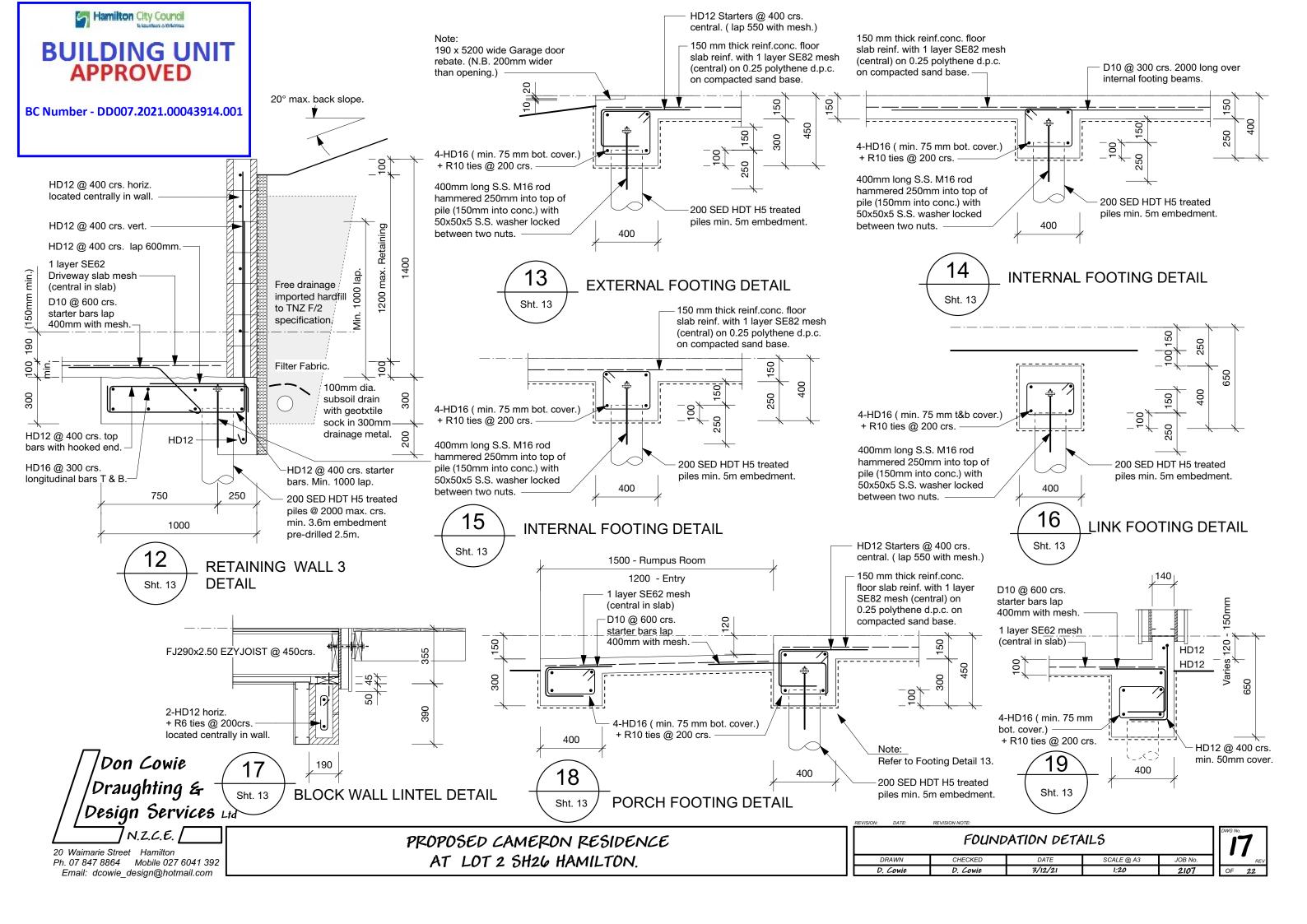
MASONRY NOTES

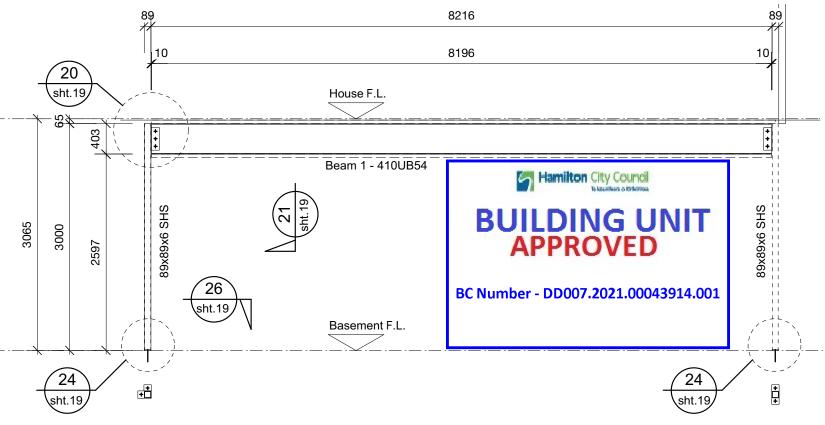
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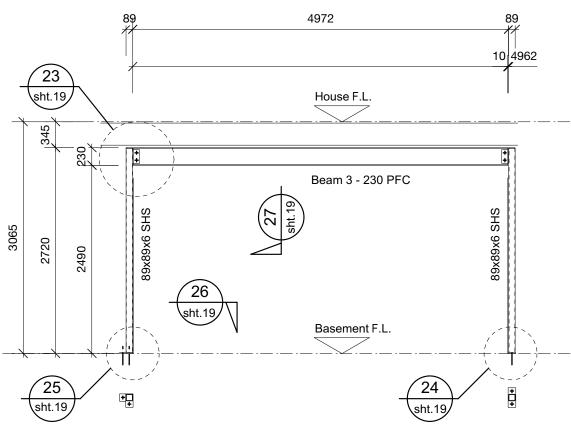
FOUNDATION NOTES & DETAILS						
DRAWN	CHECKED	DATE	SCALE @ A3	JOB No.		
D. Cowie	D. Cowie	3/12/21	1:20	2107		





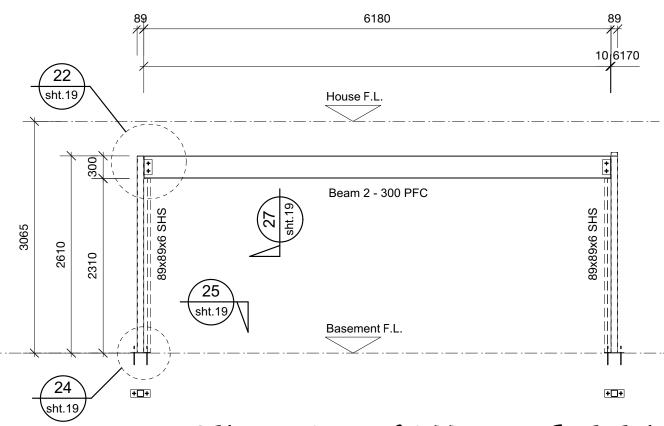


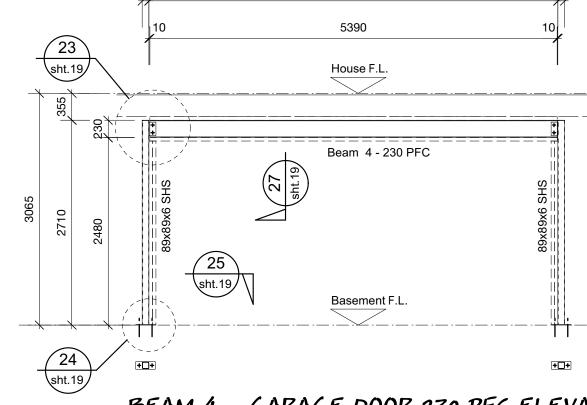




BEAM I - WORKSHOP 410UB54 ELEVATION

BEAM 3 - GARAGE 230 PFC ELEVATION





BEAM 2 - RUMPUS ROOM 300 PFC ELEVATION

BEAM 4 - GARAGE DOOR 230 PFC ELEVATION

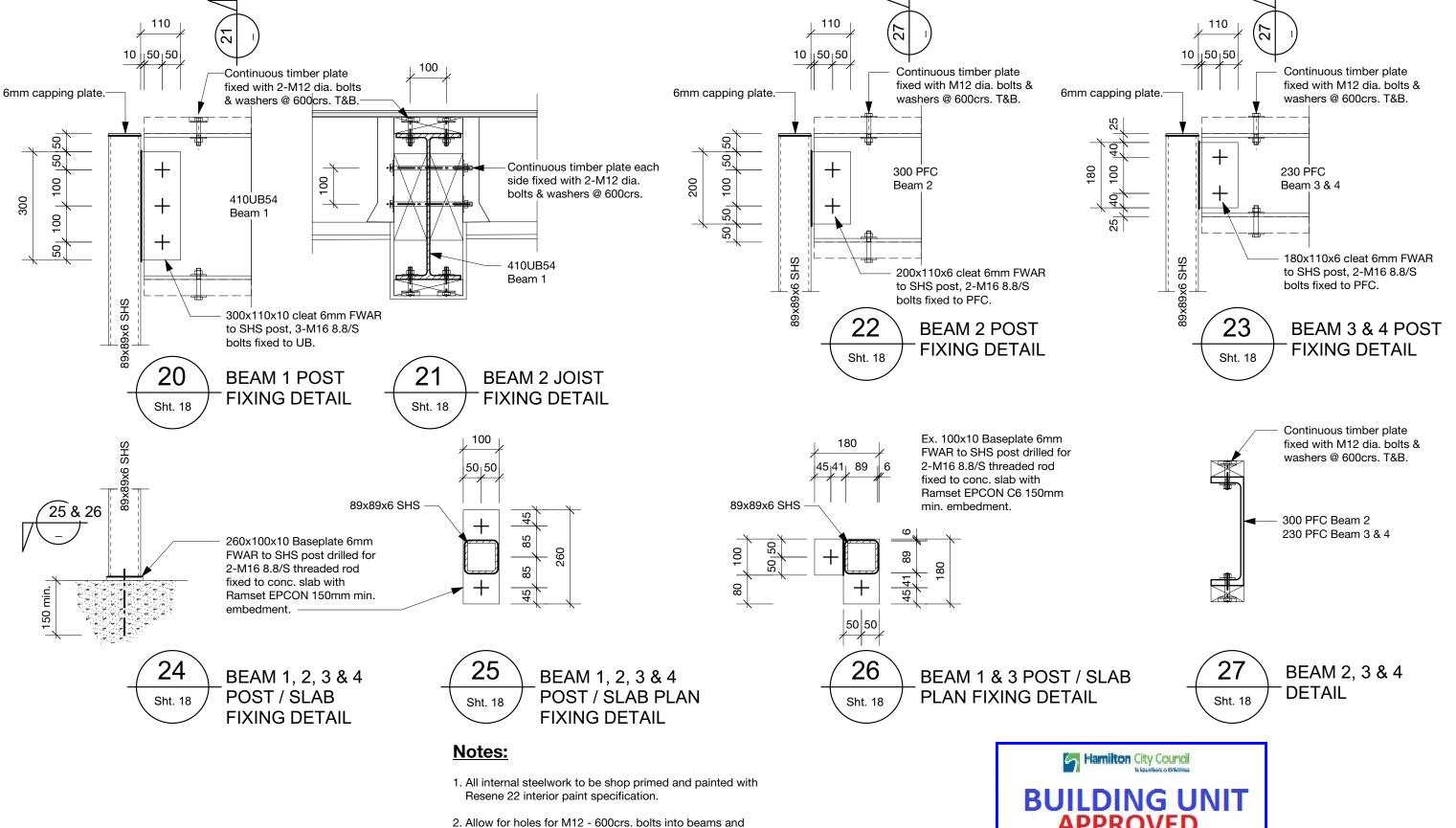
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Ph. 07 847 8864 Mobile 027 6041 392
Email: dcowie_design@hotmail.com

/Don Cowie

PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

REVISION:	DATE:	REVISION NOTE:						
	BASEMENT STEEL BEAM ELEVATIONS							
DI	RAWN	CHECKED	DATE	SCALE @ A3	JOB No.	11		
D.	Cowie	D. Cowie	3/12/21	1:50	2107	m I I		



- posts as required for fixing to steel / timber framing.
- 3. Fasten any HySpan members together with 2 rows of 90x3.3 dia. nails @ 100mm crs. as per figure 9 of the Futurebuild LVL Residential Design Guide.



PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

BASEMENT STEELWORK DETAILS							DWG
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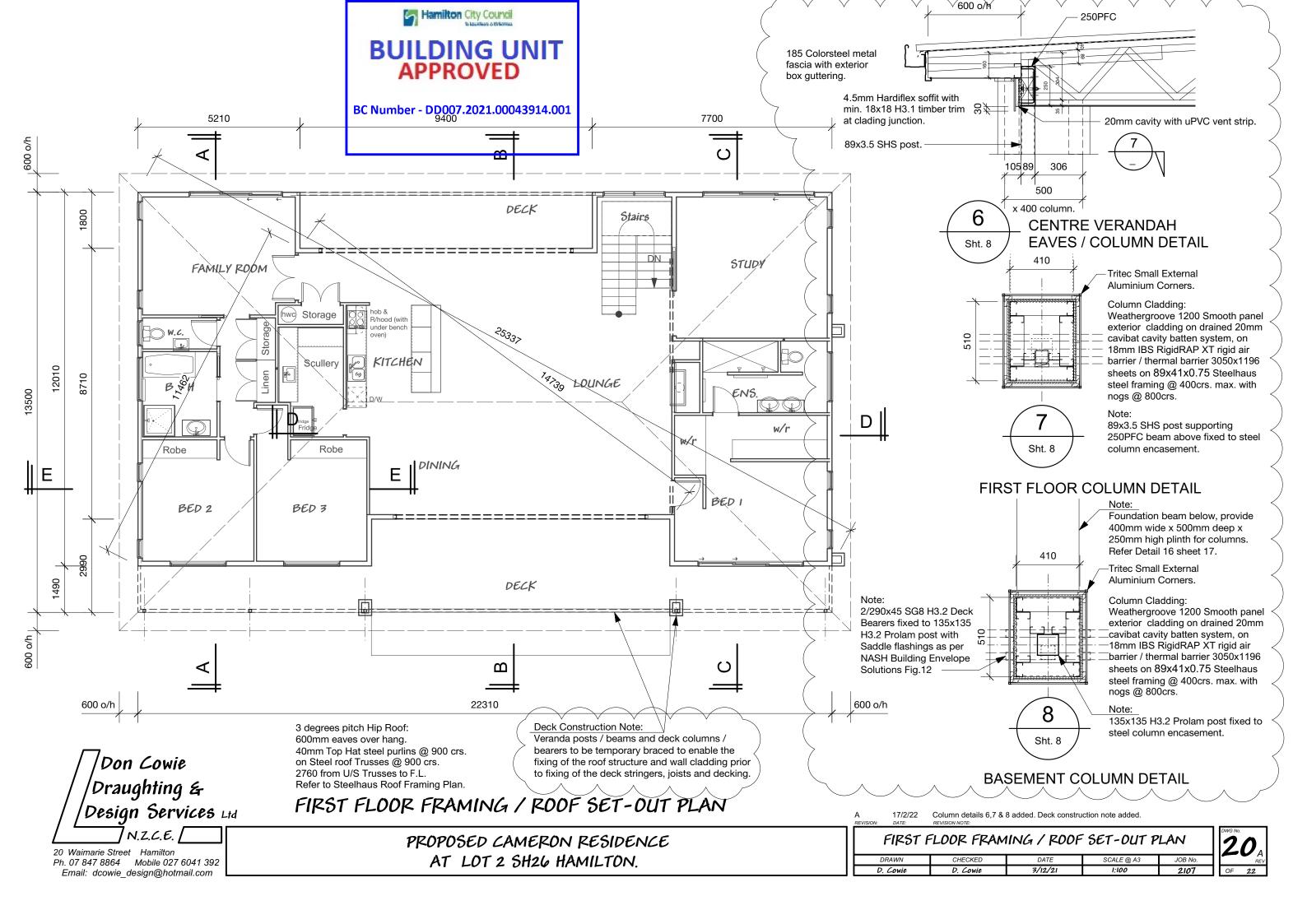


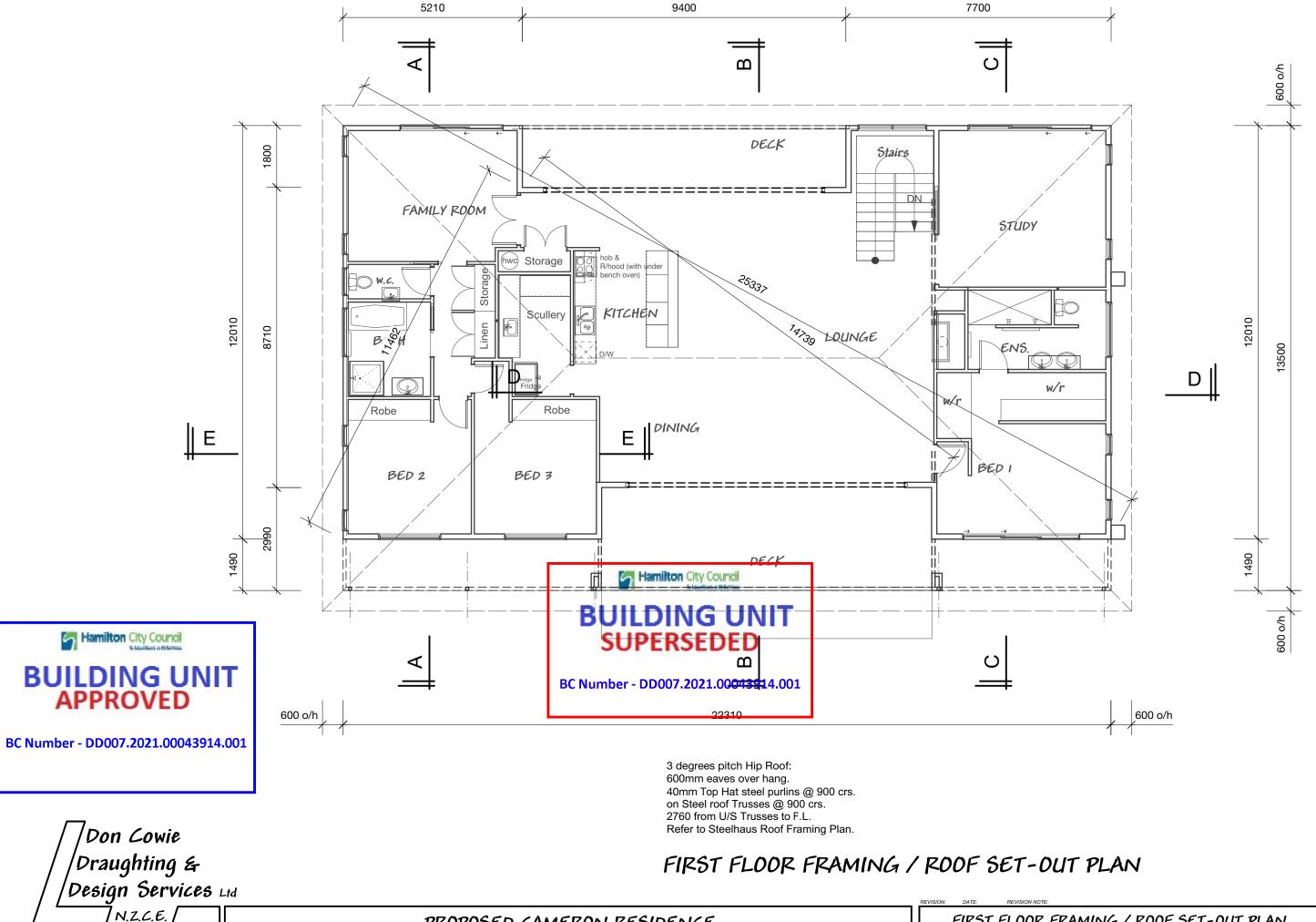
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Don Cowie

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PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

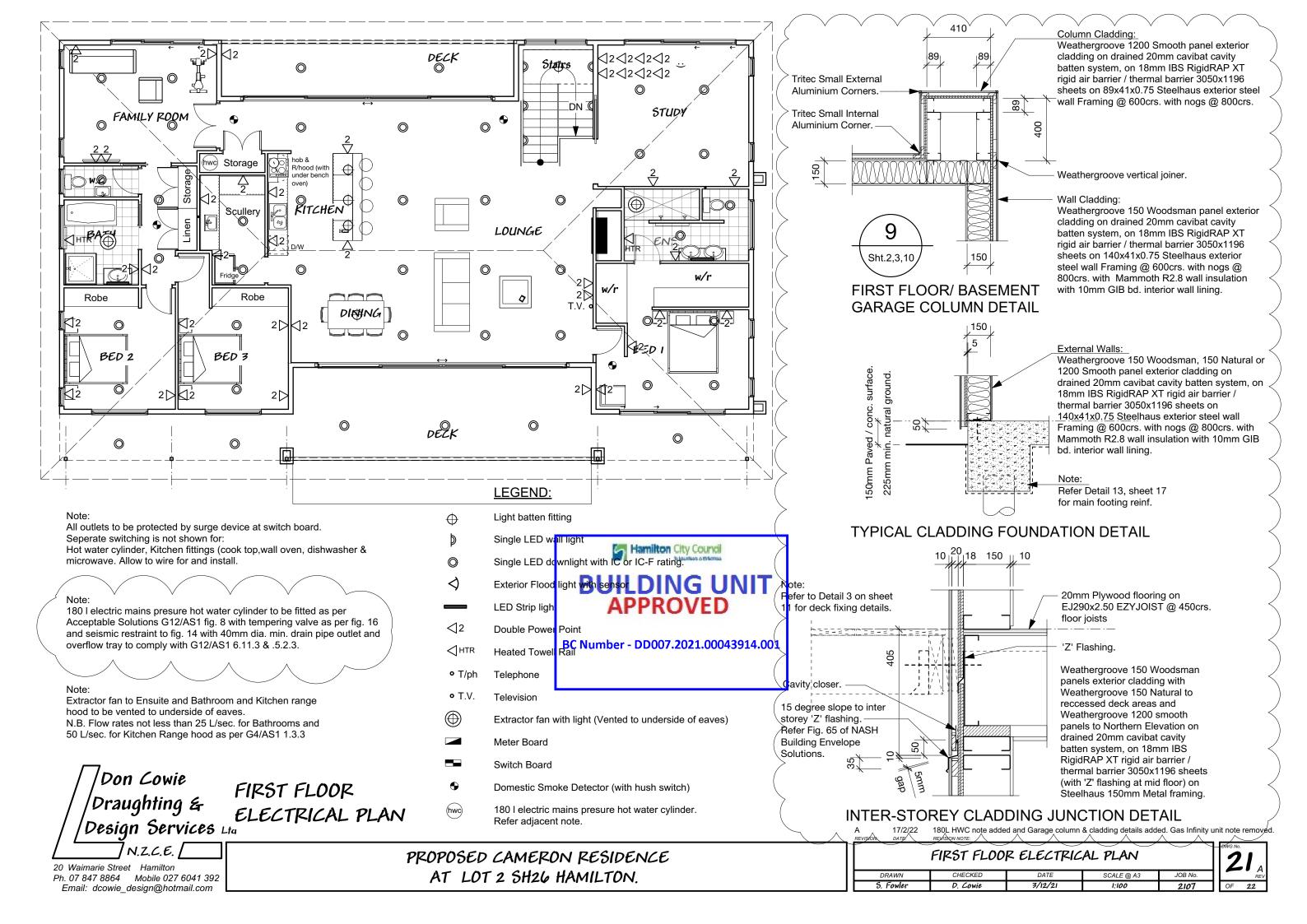
20 Waimarie Street Hamilton

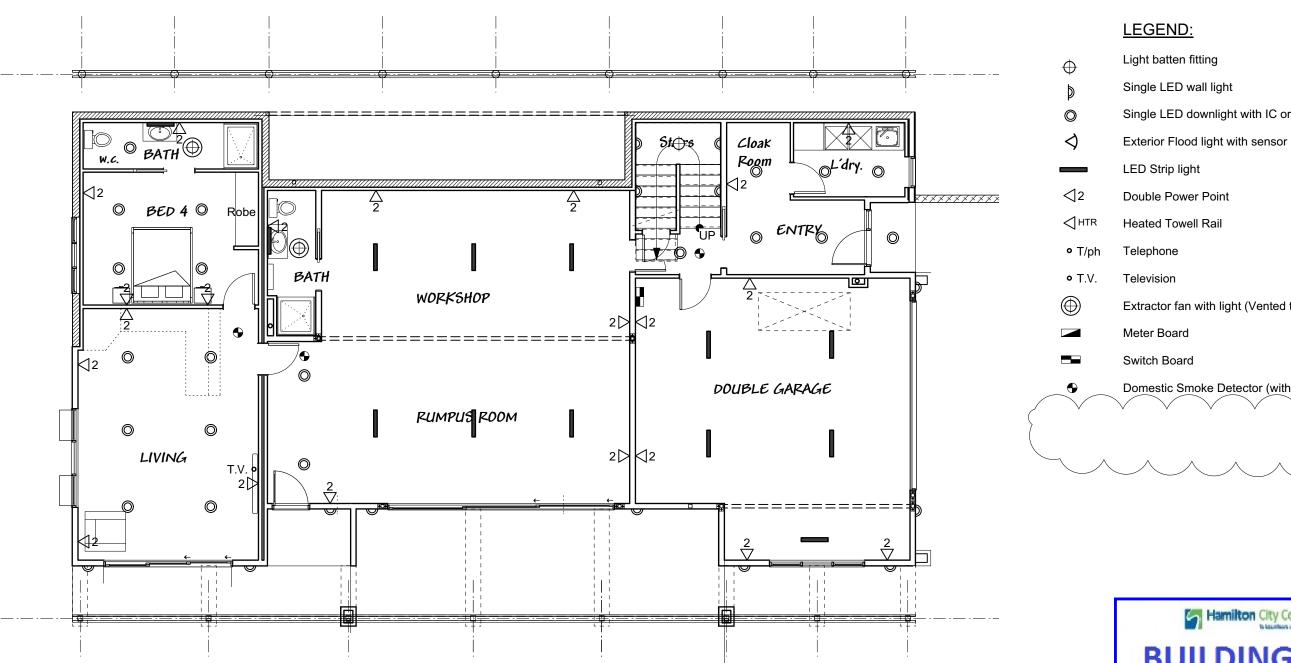
Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com FIRST FLOOR FRAMING / ROOF SET-OUT PLAN

DRAWN CHECKED DATE SCALE @ A3 JOB No.

D. COURS D. COURS 3/13/41 11/10 11/10







Single LED downlight with IC or IC-F rating.

Extractor fan with light (Vented to underside of eaves)

Domestic Smoke Detector (with hush switch)



BC Number - DD007.2021.00043914.001

BASEMENT ELECTRICAL PLAN

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PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

as Infinity unit note removed from Legend.

BASEMENT ELECTRICAL PLAN

