

N.Z.C.E. / 20 Waimarie Street Hamilton Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com

Don Cowie

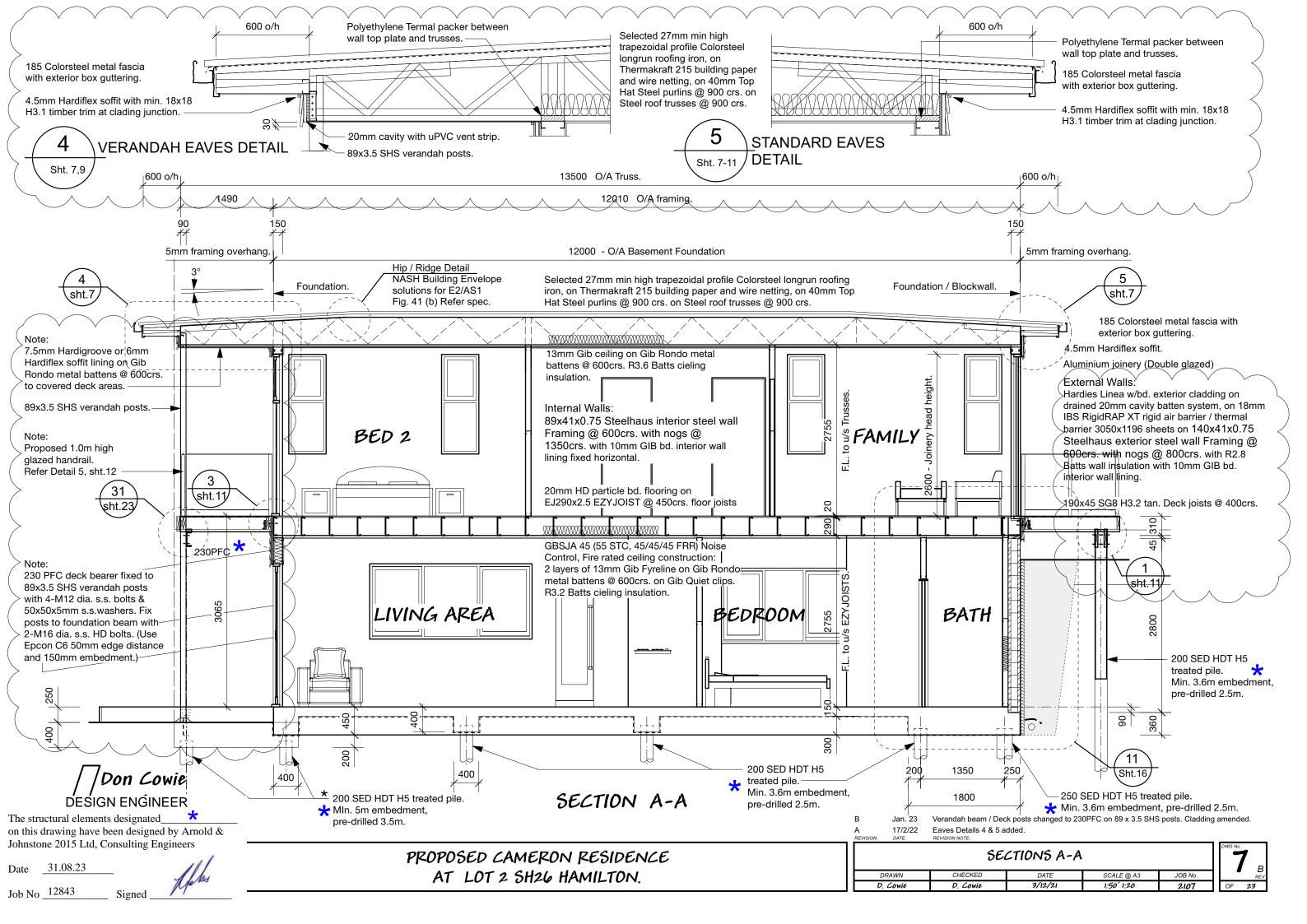
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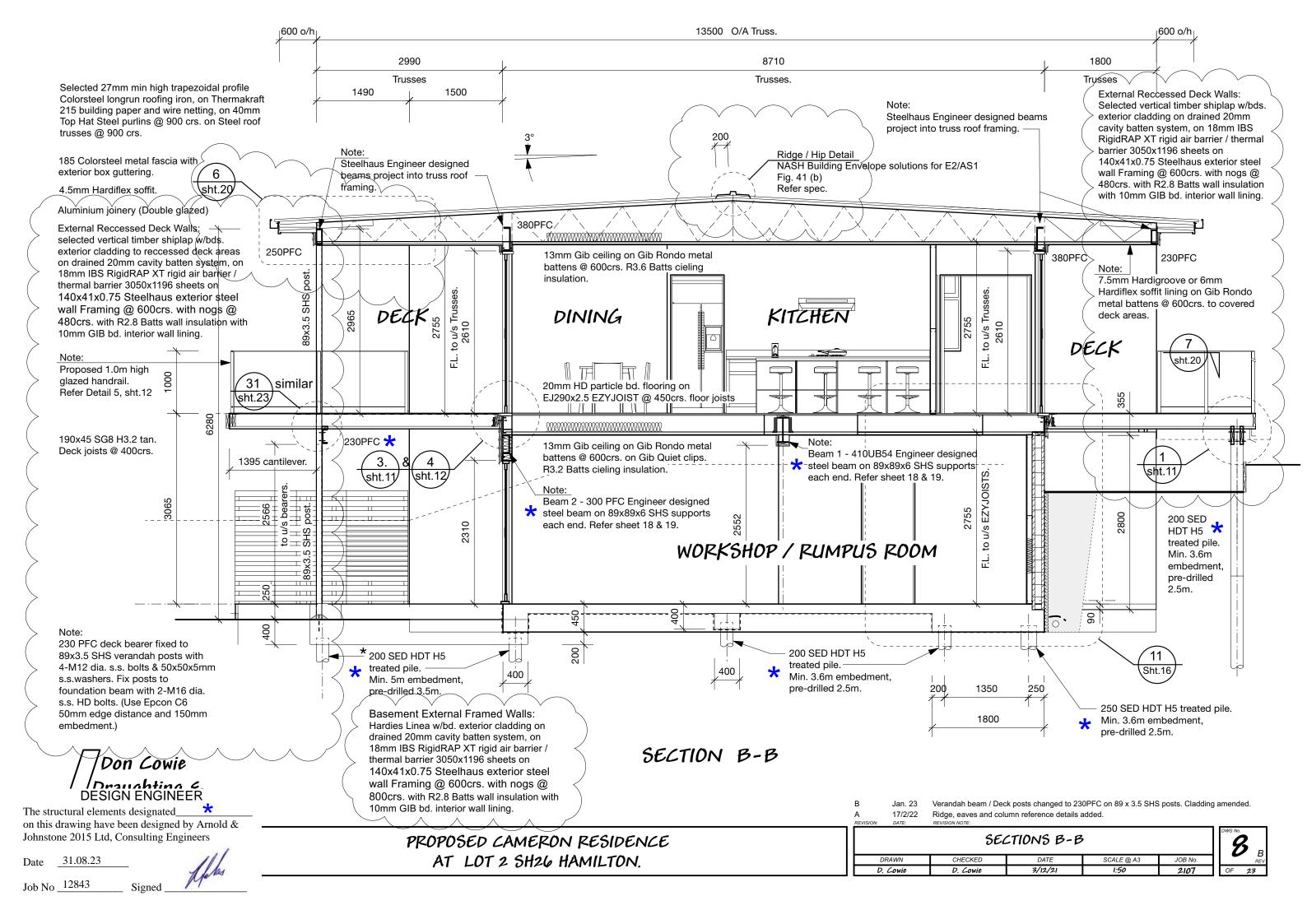
Design Services Ltd

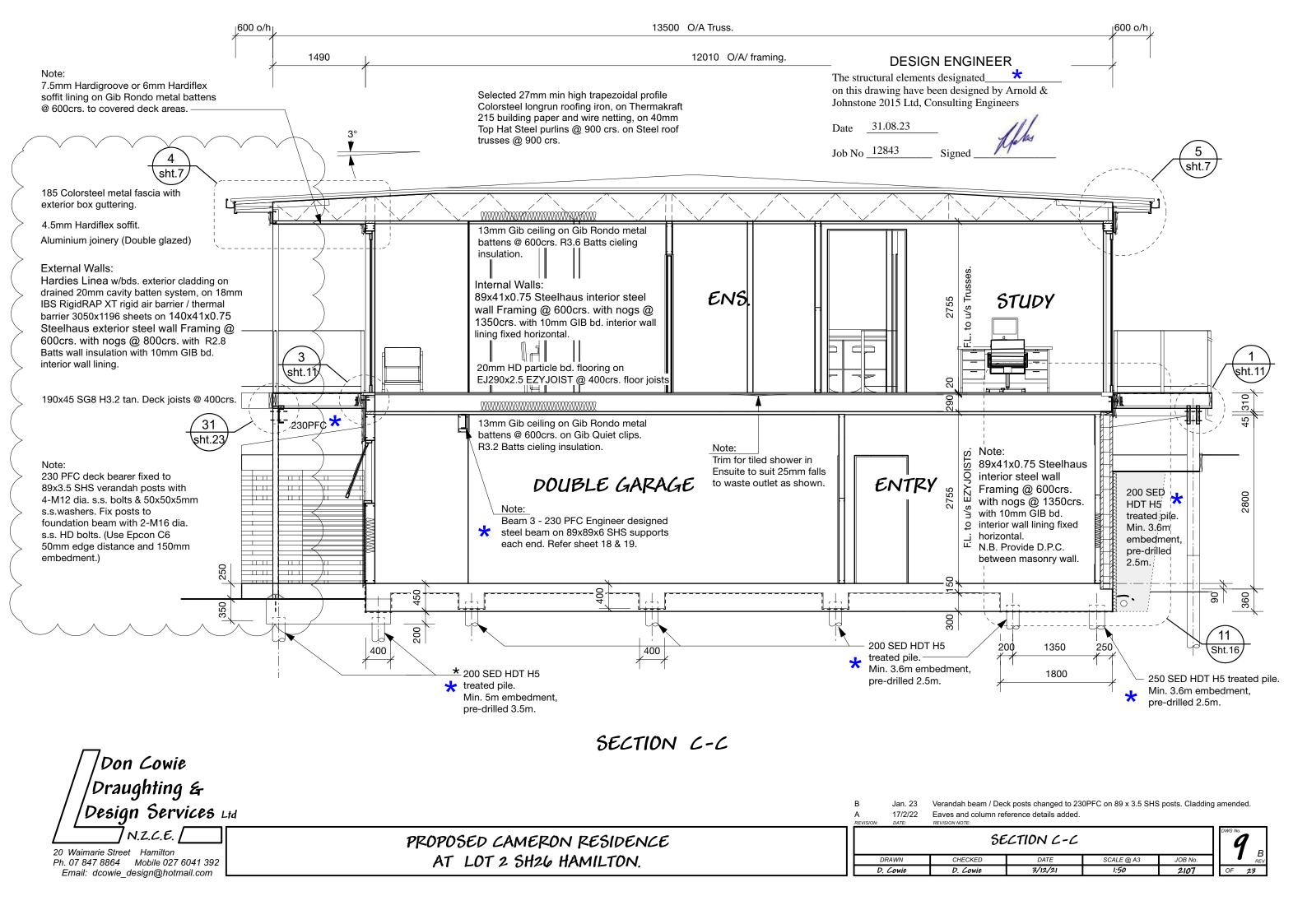
PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON.

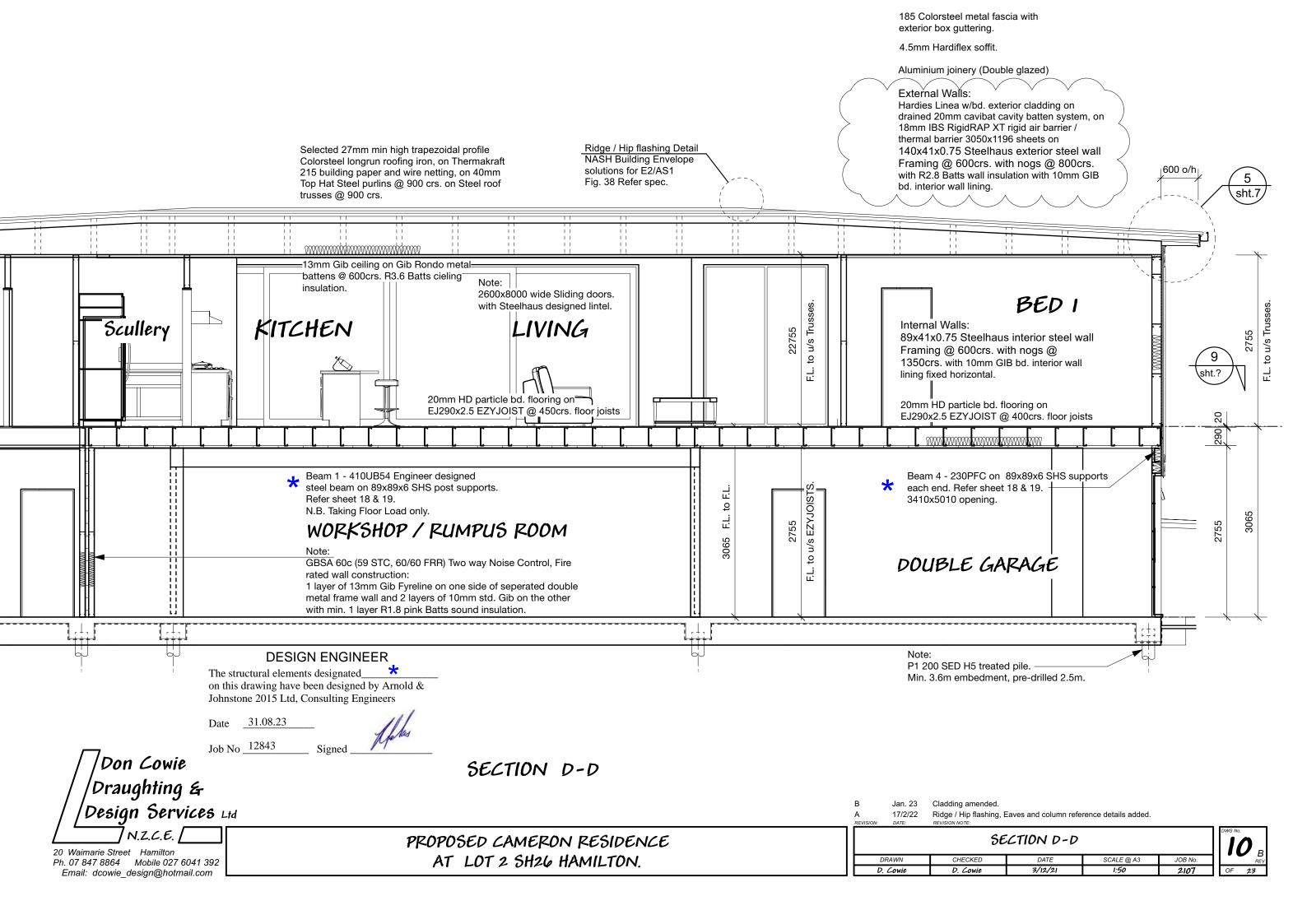
28/2/22 Wall Bracing designed to NASH STD. PART 2.

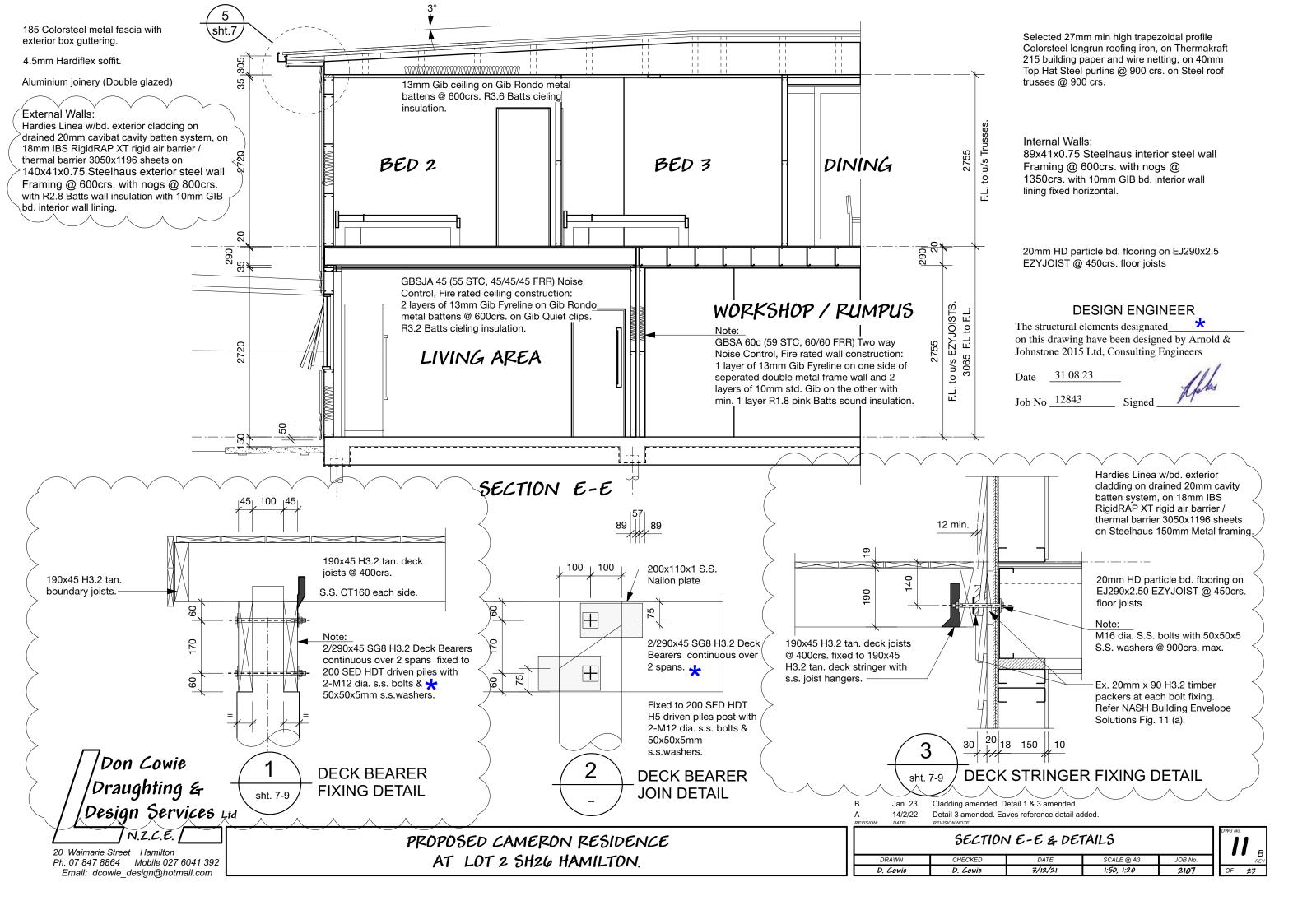
FIRST FLOOR WALL BRACING PLAN				
DRAWN	CHECKED	DATE	SCALE @ A3	JOB No.
D. Cowie	D. Cowie	3/12/21	1:100	2107

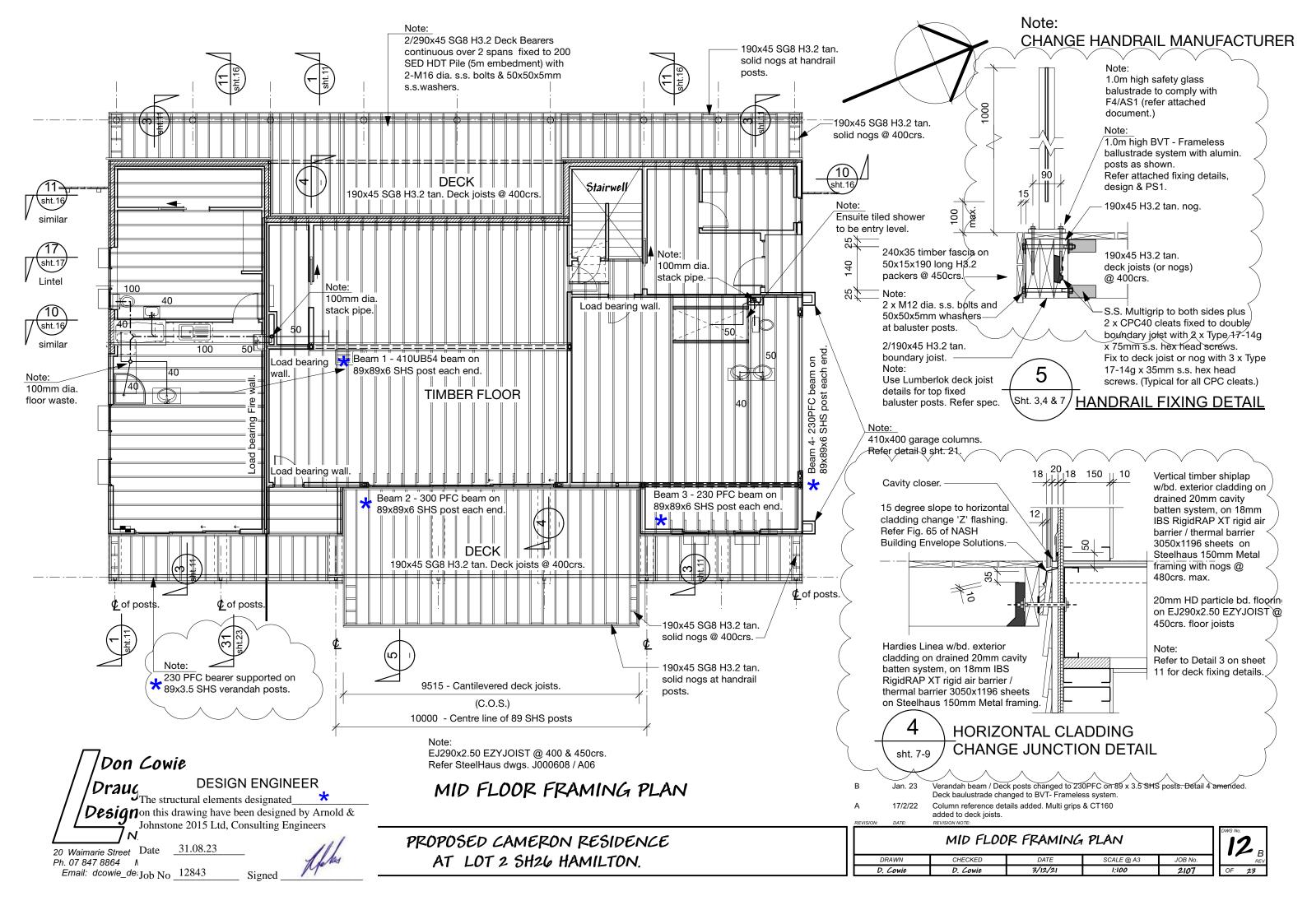


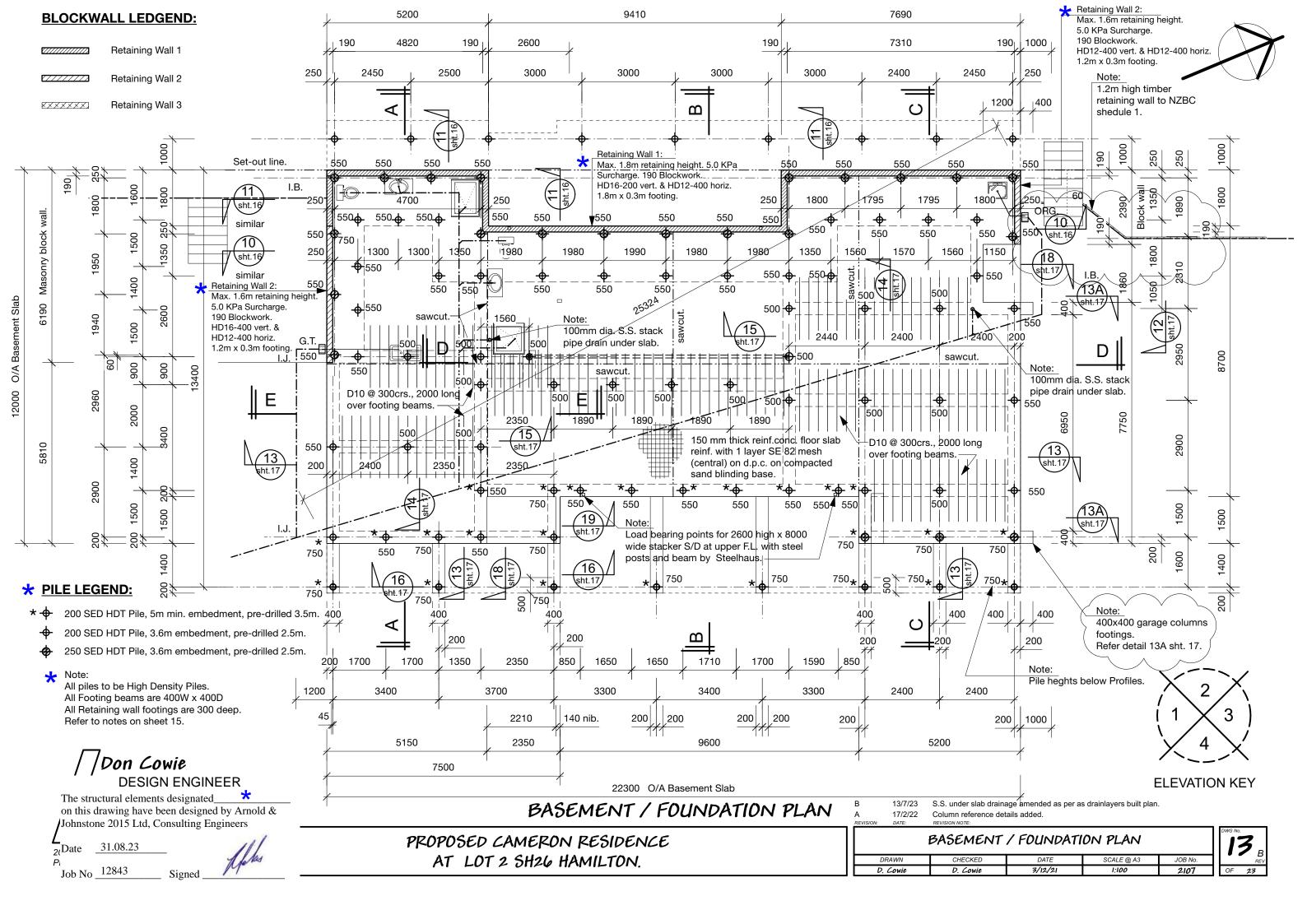


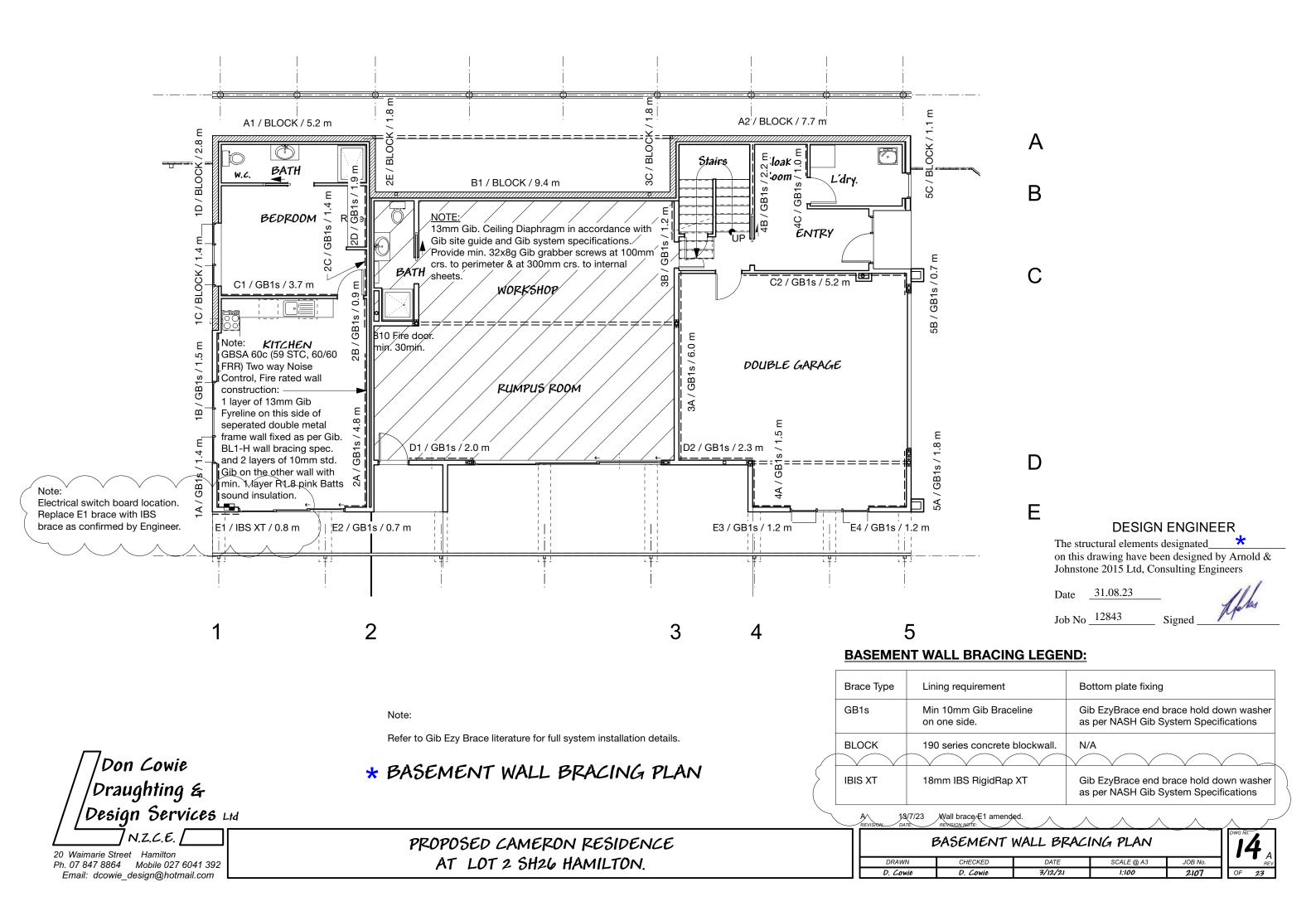


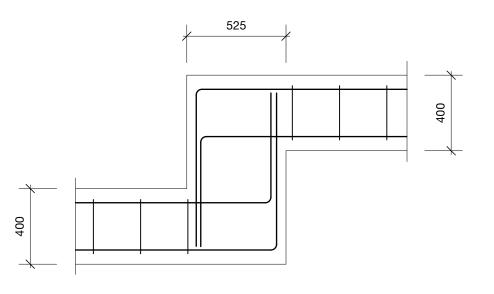




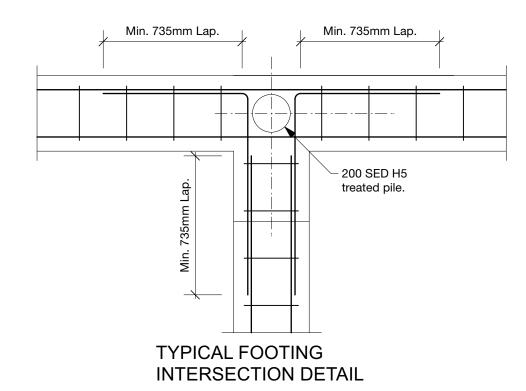


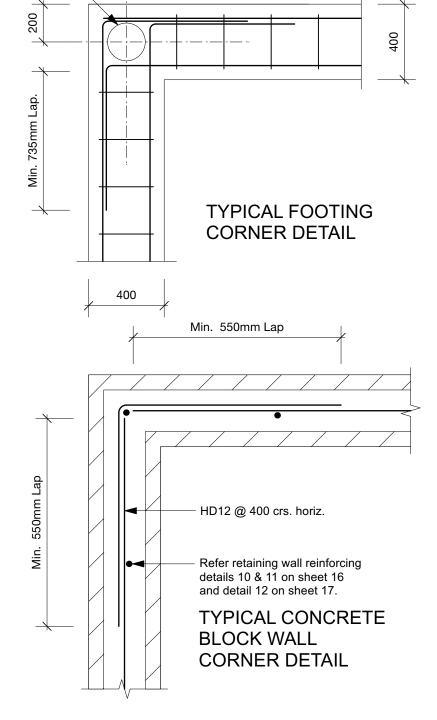






FOOTING STEP ELEVATION





Min. 735mm Lap.

200

200 SED H5

treated pile.

DESIGN ENGINEER

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

31.08.23

Job No 12843

Signed

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
- 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
- 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

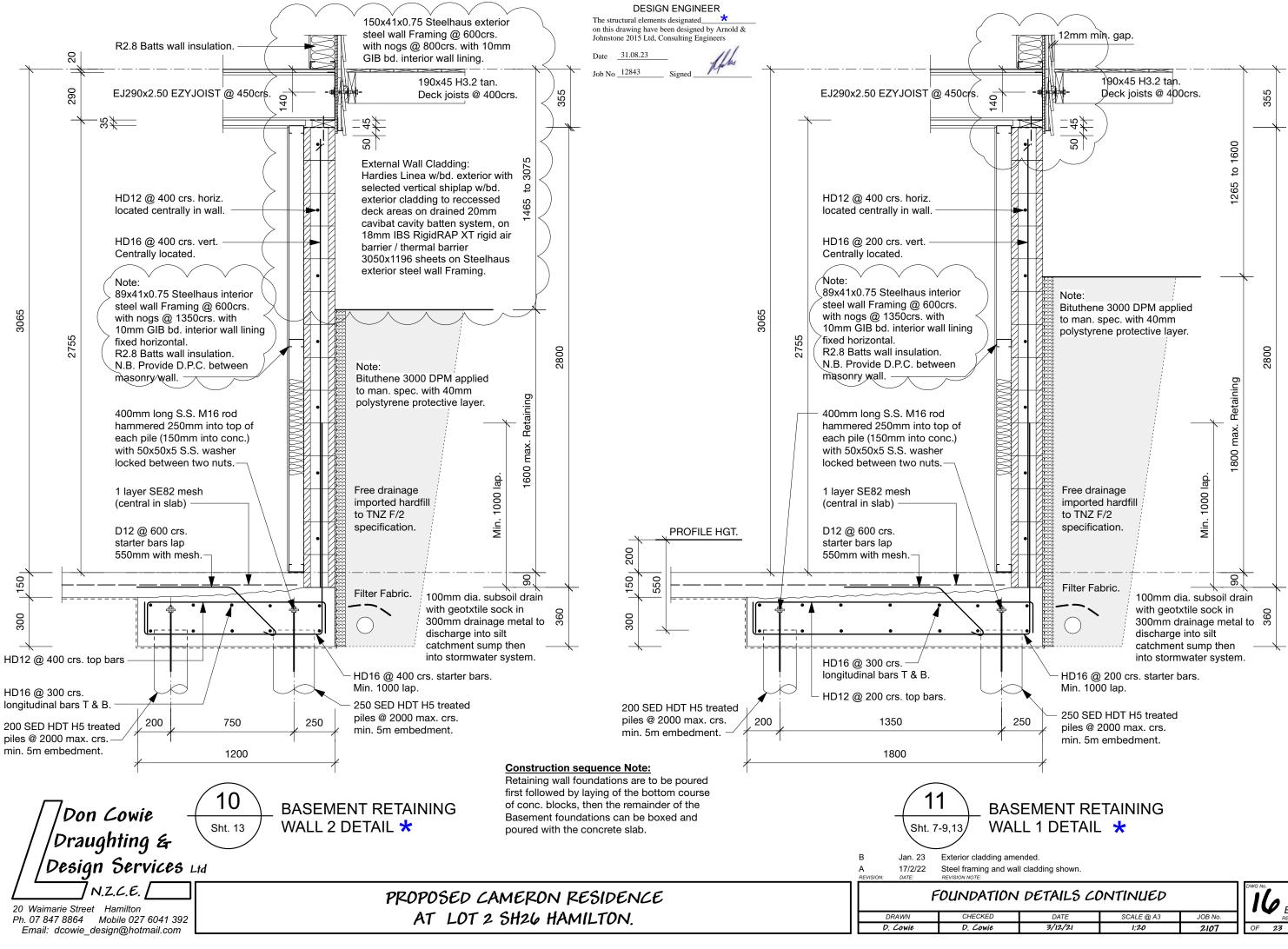
* FOUNDATION NOTES & DETAILS JOB No D Cowie D Cowie

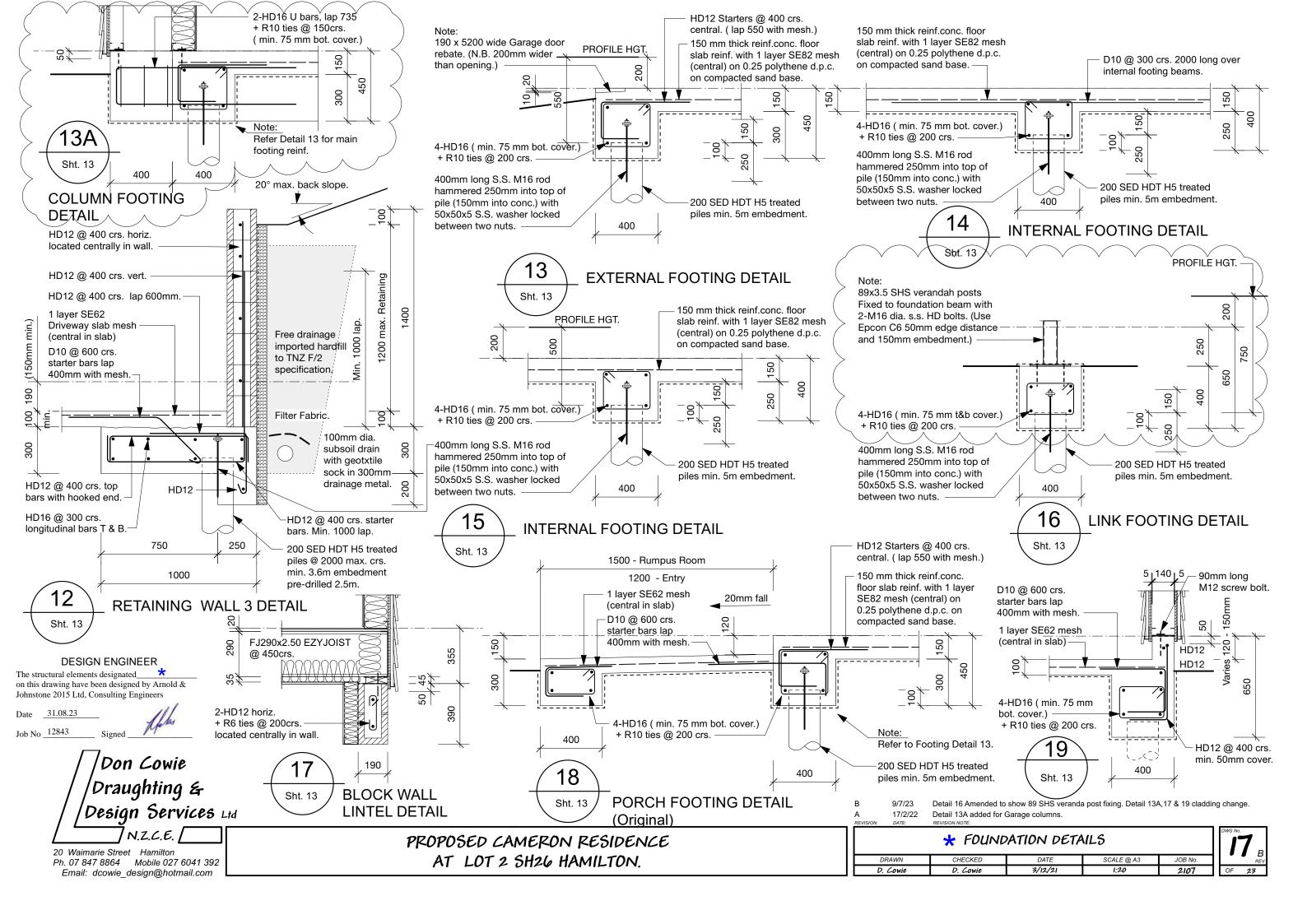


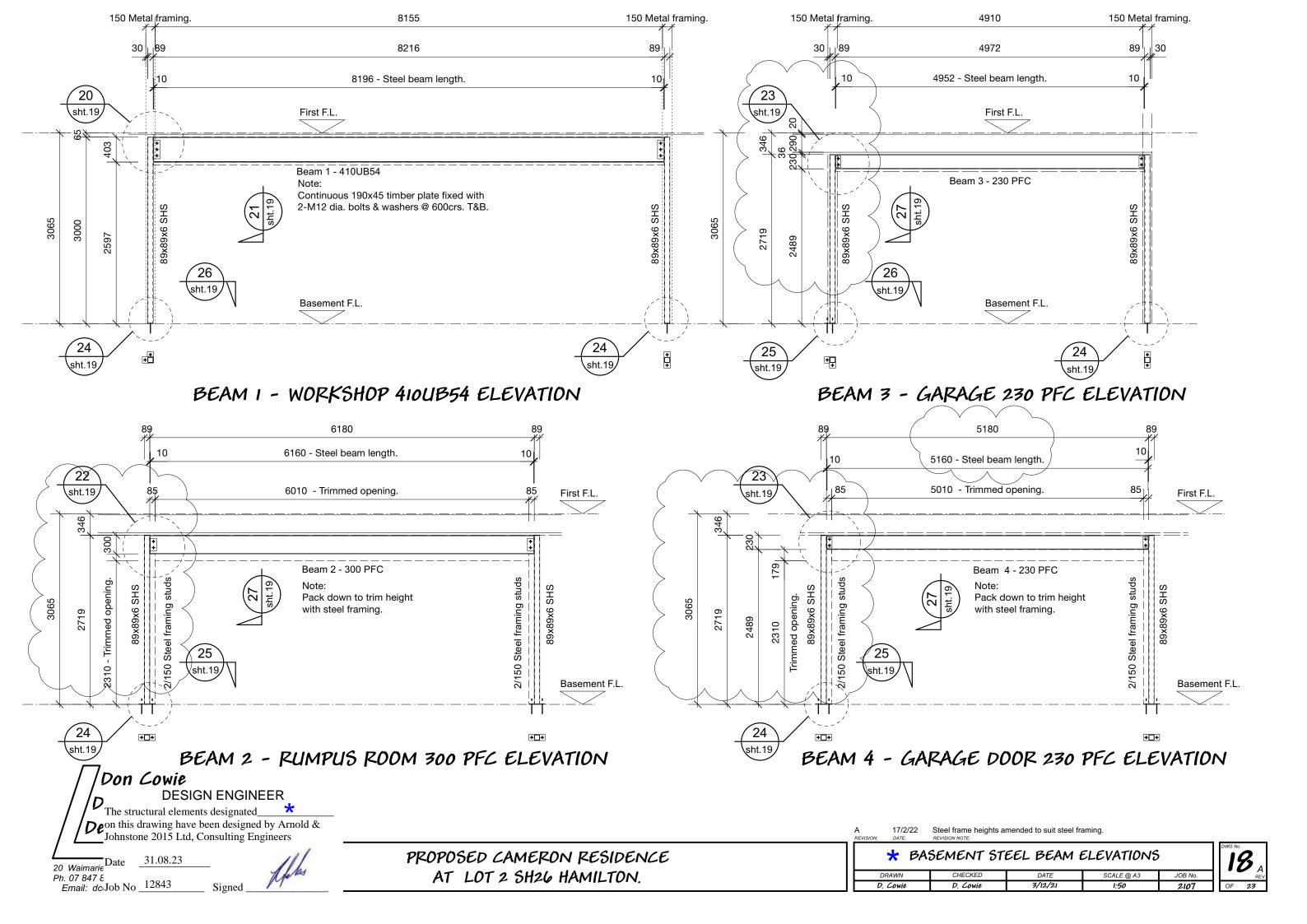


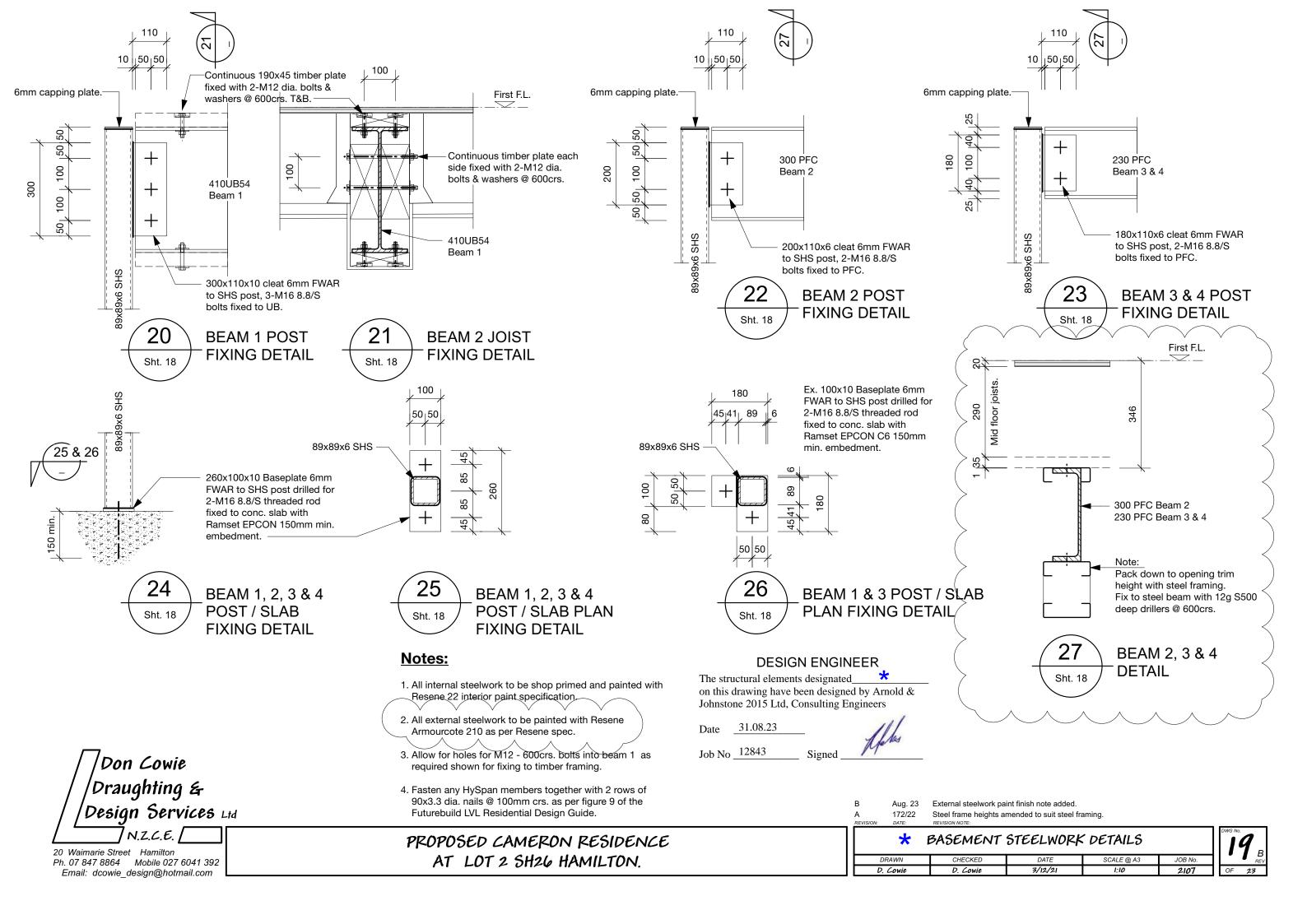
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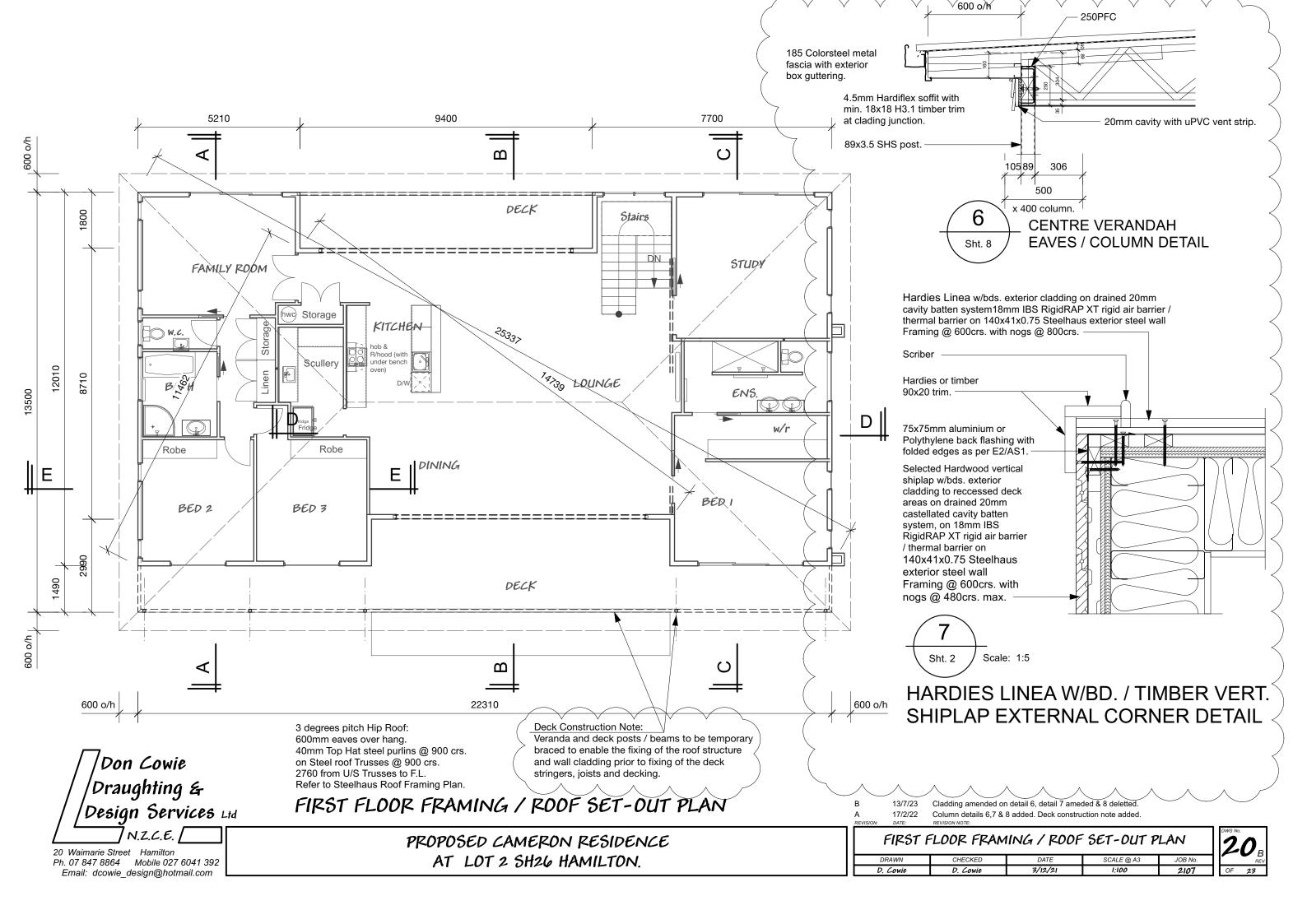
Design Services Ltd

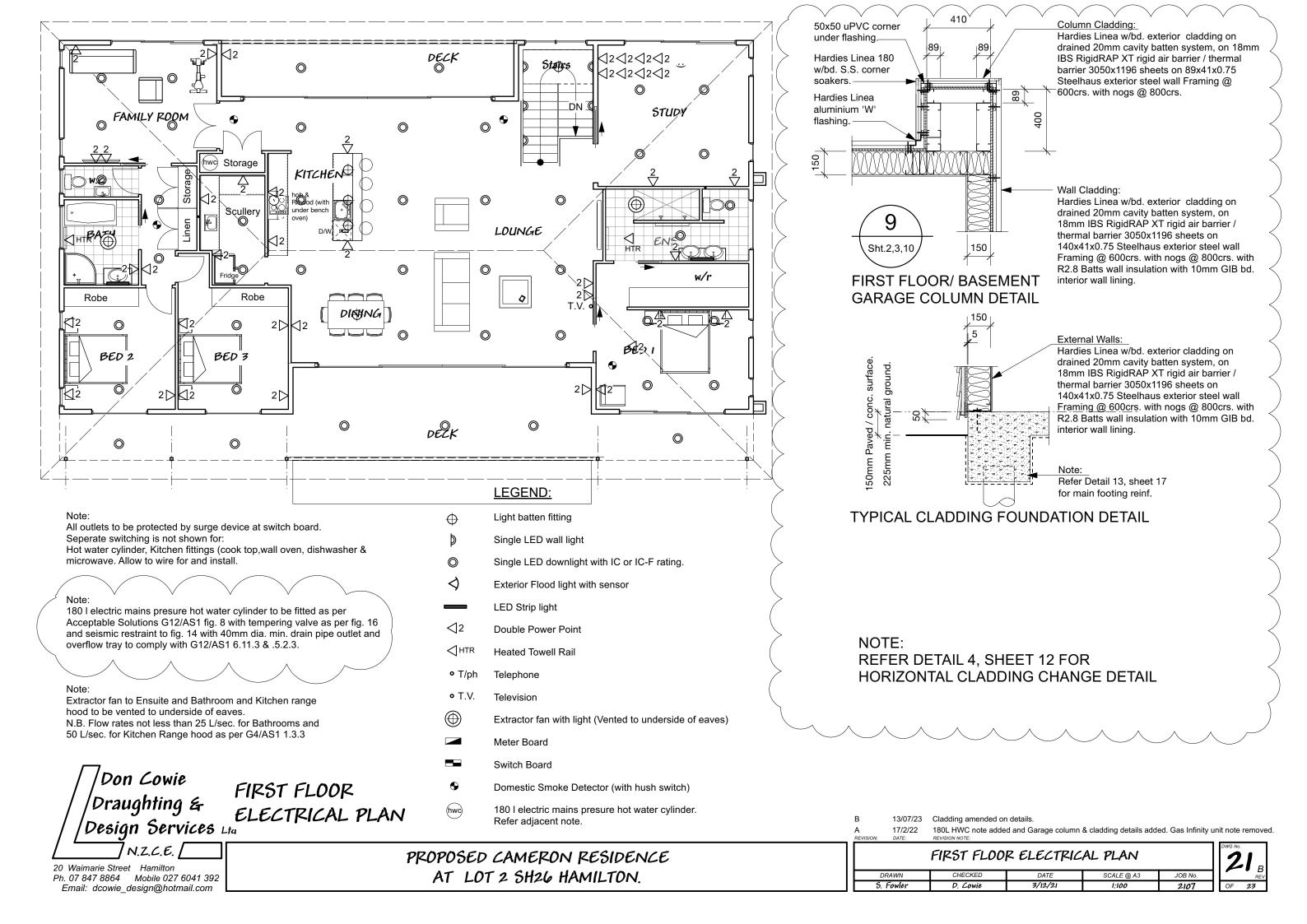


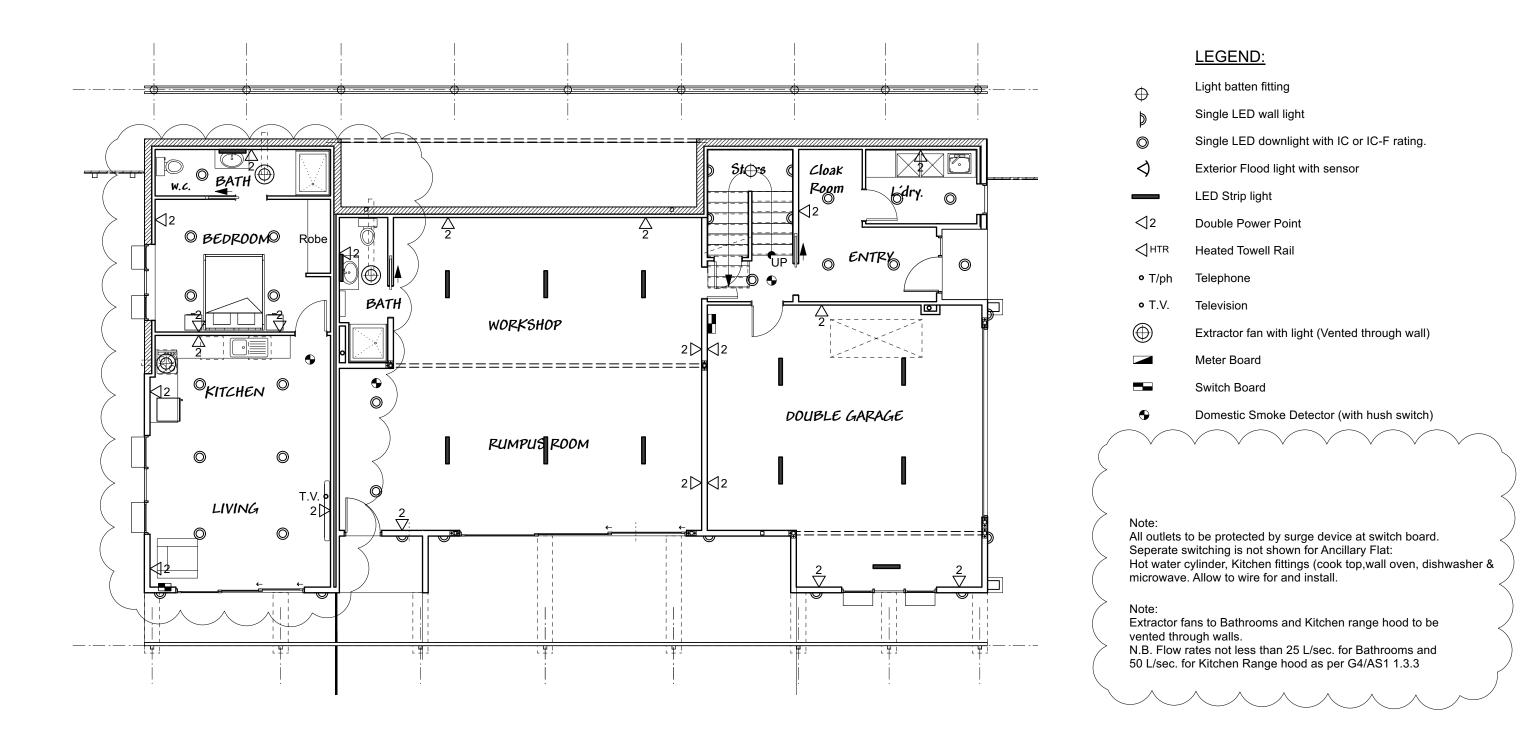












BASEMENT ELECTRICAL PLAN

| Don Cowie | Draughting & | Design Services Lid | N.Z.C.E. |

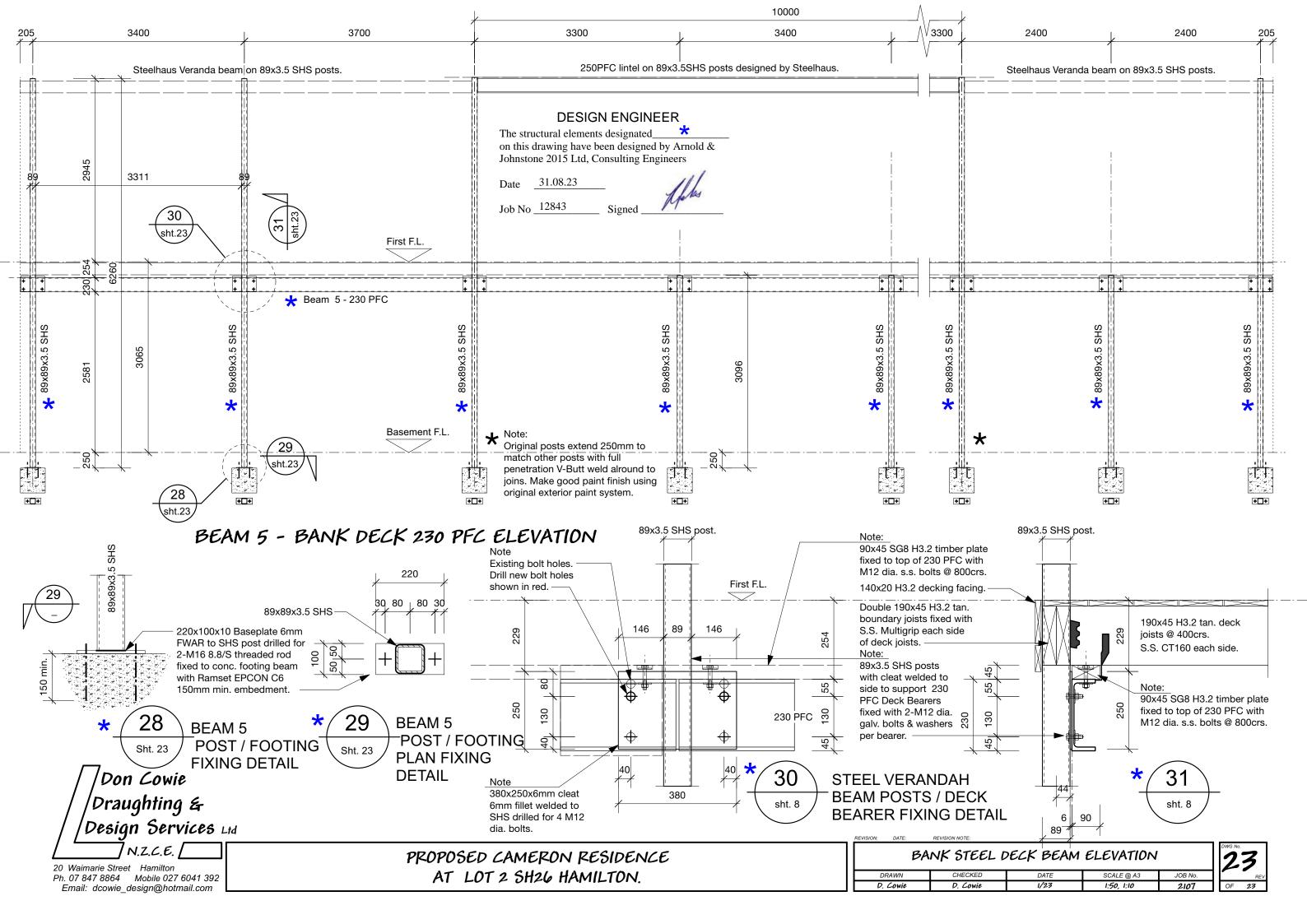
20 Waimarie Street Hamilton Ph. 07 847 8864 Mobile 027 6041 392 Email: dcowie_design@hotmail.com PROPOSED CAMERON RESIDENCE AT LOT 2 SH26 HAMILTON. B 18/8/23 Ar
A 17/2/22 as

18/8/23 Ancillary Flat switch board & Range hood location shown.17/2/22 as Infinity unit note removed from Legend.

REVISION NOTE:

BASEMENT ELECTRICAL PLAN				
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S. Fowler	D. Cowie	3/12/21	1:100	2107



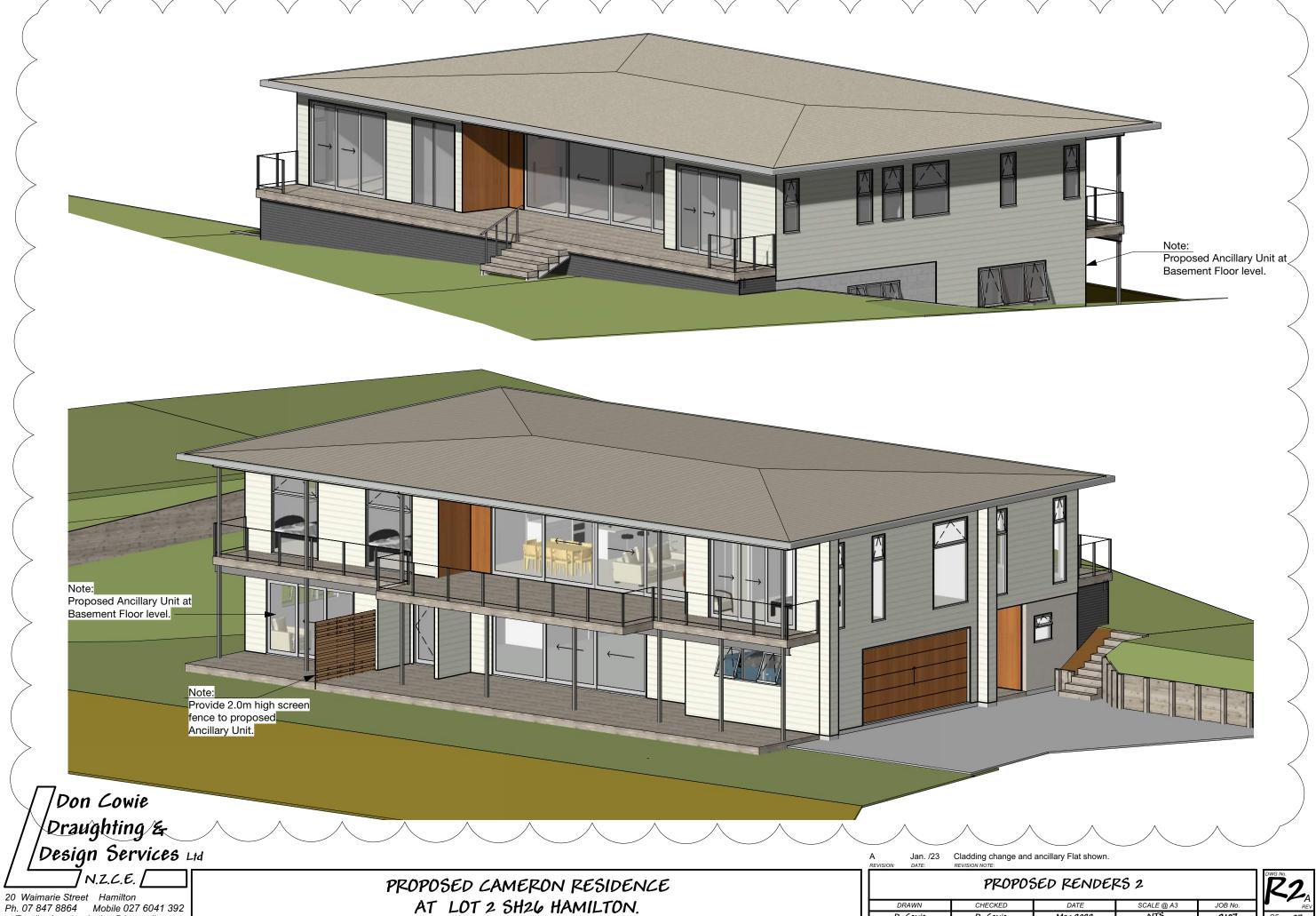




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D. Cowie	D. Cowie	May 2022	NTS	2107][OF





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D. Cowie	D. Cowie	May 2022	NTS	2107





Don Cowie
Draughting &
Design Services III
N.Z.C.E.

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PROPOSED RENDERS 3					DI
DRAWN	CHECKED	DATE	SCALE @ A3	JOB No.	
D. Cowie	D. Cowie	Feb. 2022	NTS	2107	

