



CPCCBC4014A

PREPARE SIMPLE BUILDING SKETCHES AND DRAWINGS

THEORY EXAM INSTRUCTIONS

- This exam will occur under standard assessment conditions.
 - An oral examination may be allowed under certain circumstances. Answers will be documented and FT003 (Oral examination declaration form) must be completed.
- Participants must provide enough detail in their responses to demonstrate their knowledge and skills.
- Please fill in the details below, providing your name, signature and date of assessment.
 - Your signature acknowledges that this is your own work.
- If a participant initially answers a question incorrectly but modifies their response, they must follow the instructions below:
 - If a participant changes their response in writing, they must put their initials next to the written change.
 - If a participant changes their response verbally, this must be noted on the exam paper by the assessor.

Participant name

DAVID MOORE

Participant signature

Assessor name

Assessor signature

Date

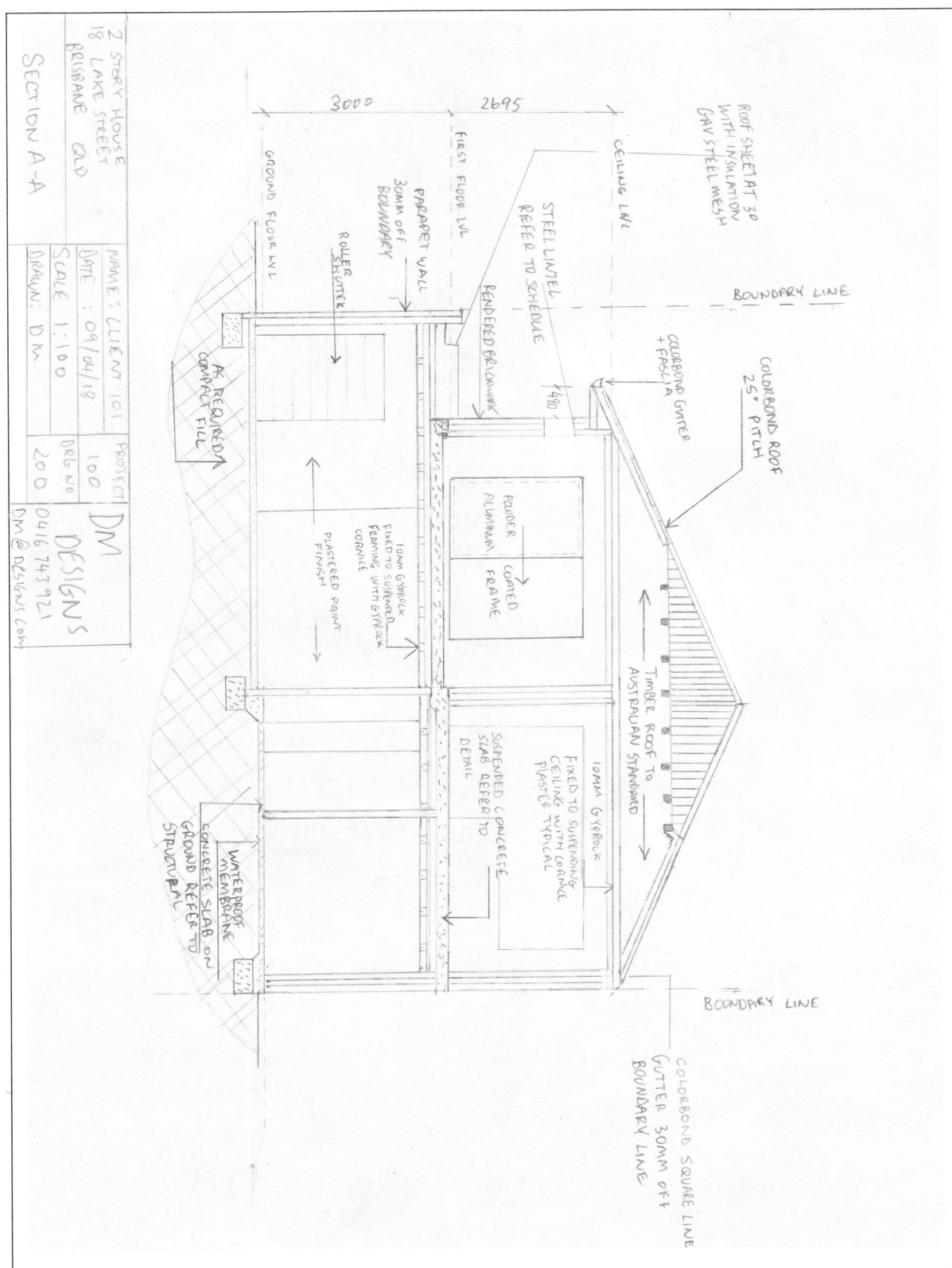
Click here to enter a date.

09/04/18

Number of questions	Number of questions answered correctly	Satisfactory?	
		Yes	No
12		☐	☐



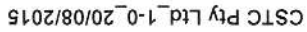
Q1. Reproduce the Section Drawing. Apply dimensions using an appropriate scale and insert your own Title Block.



Answer



Parquet

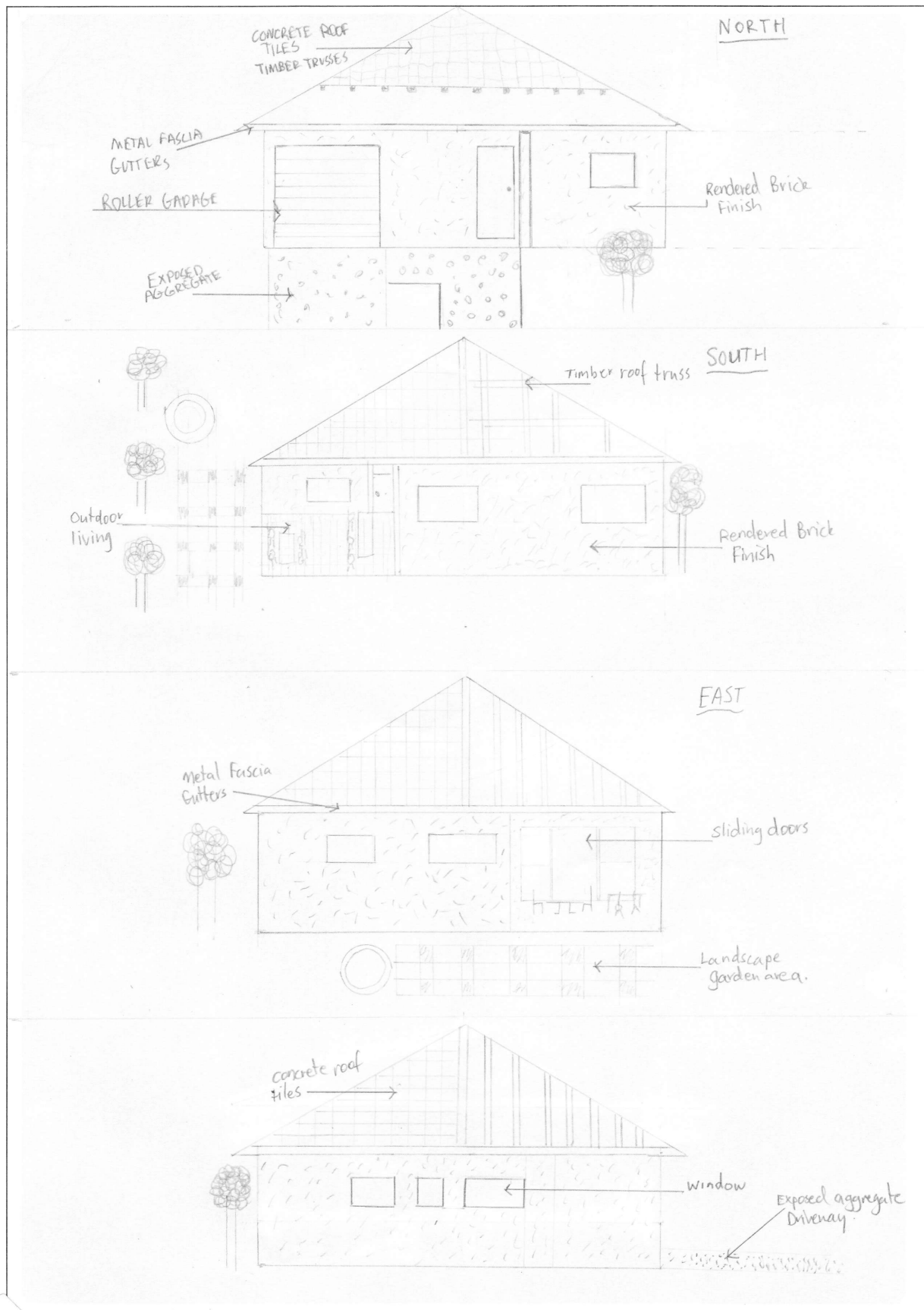




Q2. Write a paragraph or two sufficient to explain this dwelling's sectional view to a client or trade contractor.

Answer

This sectional detail is for a client's 2 story house on 170A French Street, Stuart Hill. The excavation and foundations will have compacted fill to the proposed LVL set from the surveyors RL. The slab footings are 300x500mm with a 100mm slab on ground. Note the 100mm step up on ground and first level when pouring the ground and suspended slabs. There is a waterproof membrane to be added for preparation of the floor slab. We will be using a rendered finish over the internal and external brickwork with a paint finish. The ceilings have a 10mm gyprock finish with suspended ceiling framing from the suspended slab/roof timber trusses. The first floor has a FFL to ground floor FFL of 3000mm, allow for 100mm step up on both levels. Allow 30mm offset for boundary lines. The first floor has an Aluminum sliding door and window at eye level. Be sure to offset roof guttering to boundary by 30mm. The roof is 25° pitch with timber trusses and colorbond roof sheets. Below the window on the first floor is a 3° roof with insulation and Galv steel mesh. Check engineer specifications for further details. Sectional Detail is 1:100 ratio.

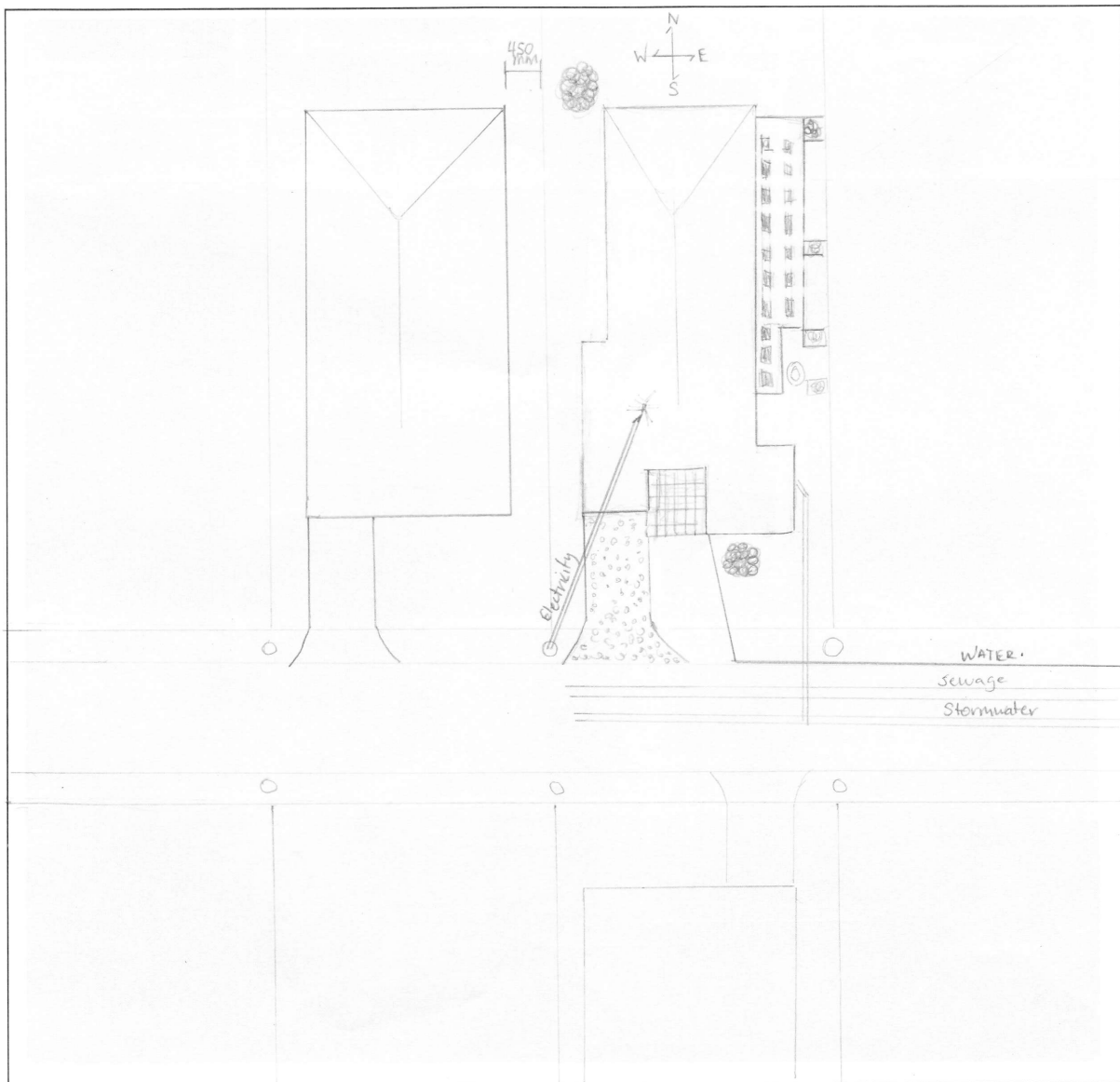


er



Q4. Identify an address with fictitious house and lot number and the block of land and land shape for the home and then create a Site Plan.

- Your boundary set offs are to accord with Brisbane City Council requirements. You are to determine these by contacting Brisbane City Council.
- Clearly mark the direction and contours on this site plan.
- Identify on your site plan the location of any existing buildings, trees, fences and other structures.
- Determine the ingress and egress points for traffic management to, from and over the site.
- Using appropriate drawing conventions, you are to mark the location of utilities and services including water, telecommunications, sewerage, storm water and electrical.

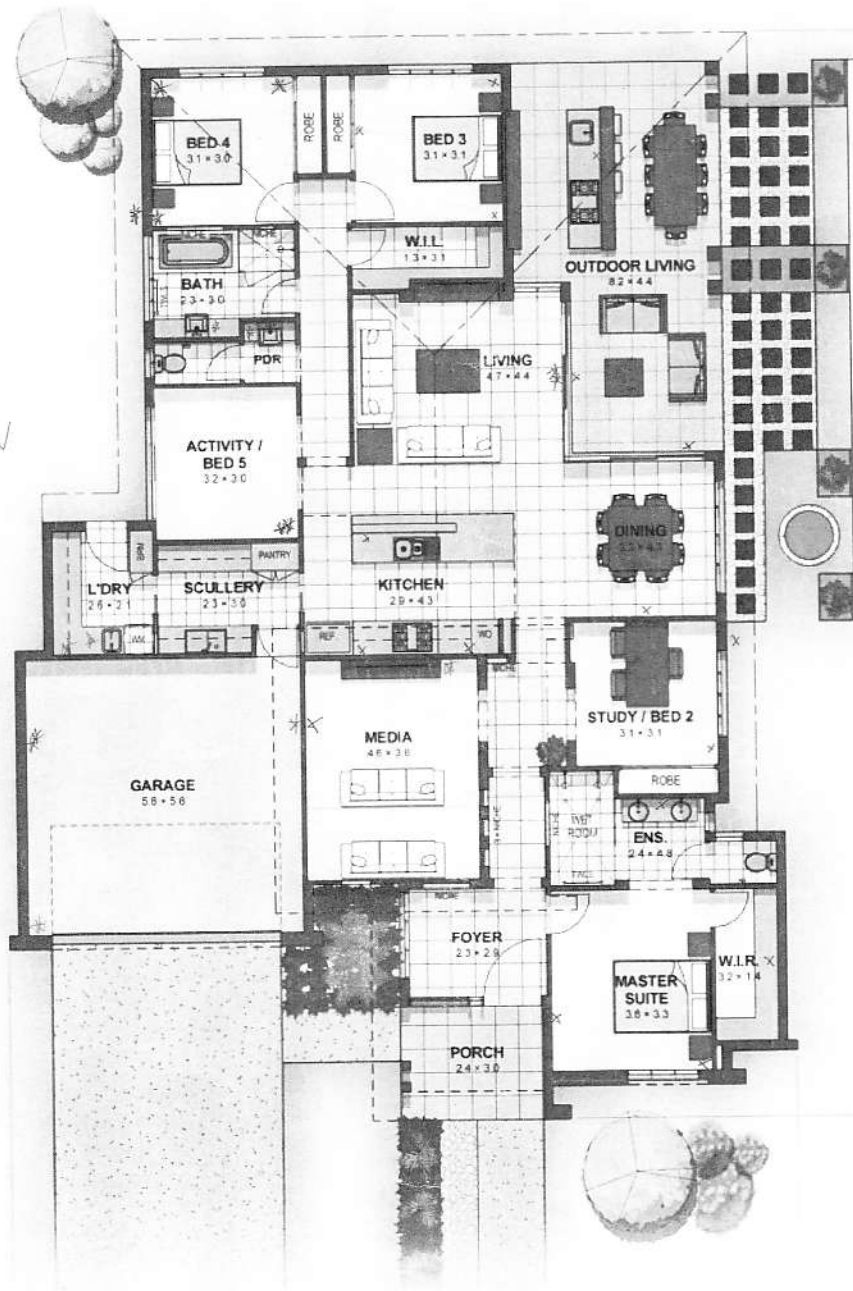


Answer



Refer to the floor plan below to respond to Q3. to Q12.

Crest



SUITS 18.8 M WIDE SITE TOTAL AREA 274 SQM

Designer Range

Q3. Use the floor plan to create your own title block and produce the North, South, East and West Elevations.

- Determine your own finished ceiling height and aluminium window and door sizes appropriate to the scale of the rooms and building (and applicable standards/codes).
- Assume it is slab on ground, rendered brick veneer construction, timber trussed roof and concrete roof tiles; metal fascia and gutters, driveway and paths are exposed aggregate.

Wet area pipe penetration



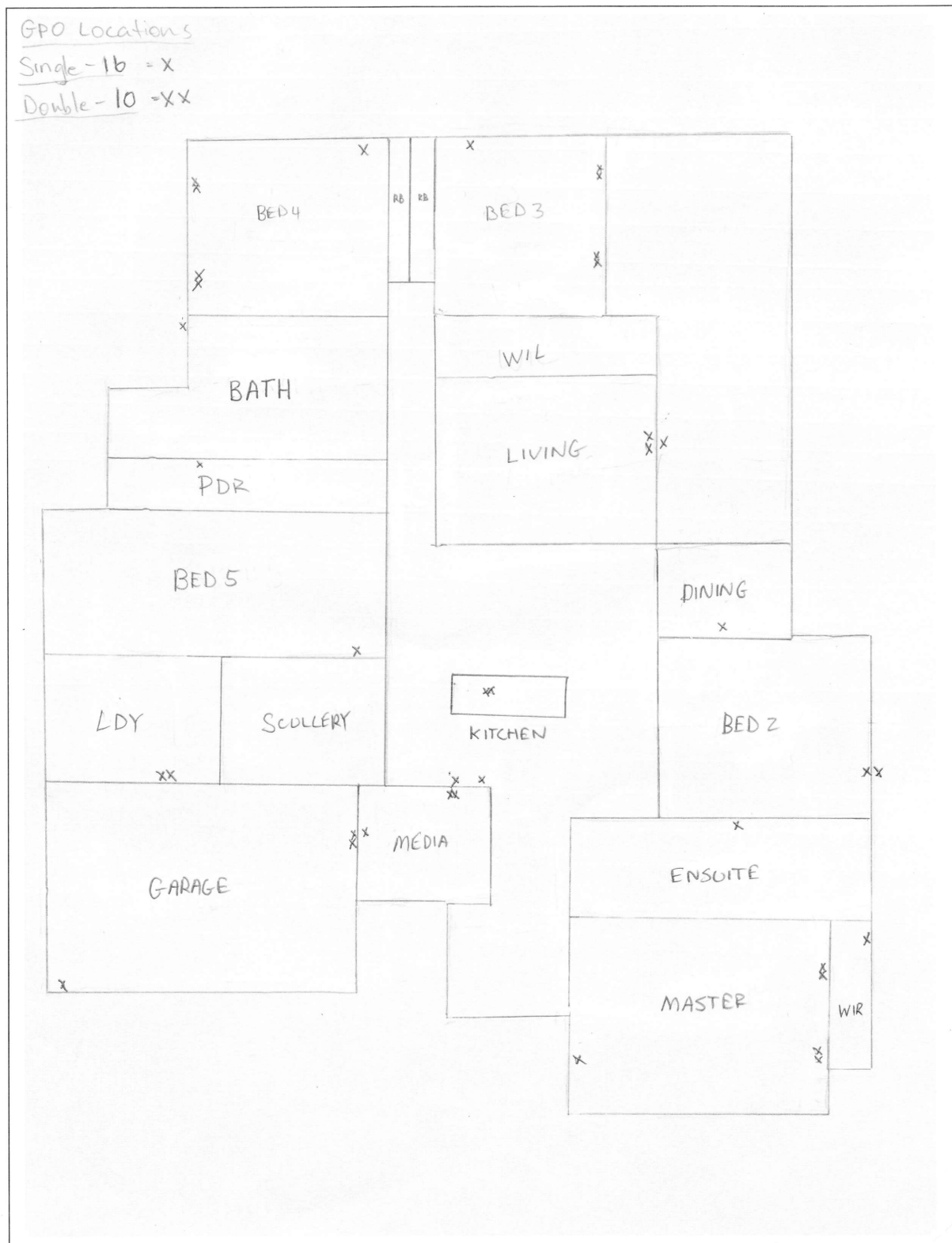
Q5. Referring to the floor plan, create a windows and doors schedule.

		DOORS	
#	LOCATION	DIMENSIONS	DETAILS
1	GARAGE	3000x5000x50	ROLLER DOOR - DOORS R US
1	Laundry	2050x800x50	External - BUNNINGS
1	Powder Room	2050x750x35	Internal - BUNNINGS
1	Bathroom	2050x750x35	Internal - BUNNINGS
1	Bedroom 4	2050x800x35	Internal - BUNNINGS
1	Bedroom 3	2050x800x35	Internal - BUNNINGS
1	WIL	2050x750x35	Internal - BUNNINGS
1	Scullery	2050x800x35	Internal - BUNNINGS
1	OUTDOOR-SLIDING	2050x800x100	External - DOORS R US
1	Ensuite	2050x750x35	Internal - BUNNINGS
1	WIR	2050x750x35	Internal - BUNNINGS
1	MASTER BED	2050x800x35	Internal - BUNNINGS
1	FOYER	2050x1050x50	Internal - BUNNINGS
		WINDOWS	
1	BED 5	2800x1200x50	50mm - WRVS
1	Powder Room	500x500x50	50mm - WRVS
1	Bathroom	1200x600x50	50mm - WRVS
1	Bed 4	1800x800x100	External 100mm - DOORS R US
1	Bed 3	1800x800x100	External 100mm - DOORS R US
4	Outdoor Area	2050x800x100	External sliding - DOORS R US
1	Dining	2000x1200x50	50mm - WRVS
1	Bed 2	1800x600x50	50mm - WRVS
1	Ensuite	500x500x100	External 100mm - DOORS R US
1	Master Suite	1200x1200x50	50mm - WRVS
1	Media 1	500x500x50	50mm - WRVS
1	Media 2	750x500x50	50mm - WRVS

Answer



- Q6. Referring to the floor plan, create a lighting plan and determine single and double GPO locations to be used as a guide by your electrical sub-contractor for a preliminary wiring quote.

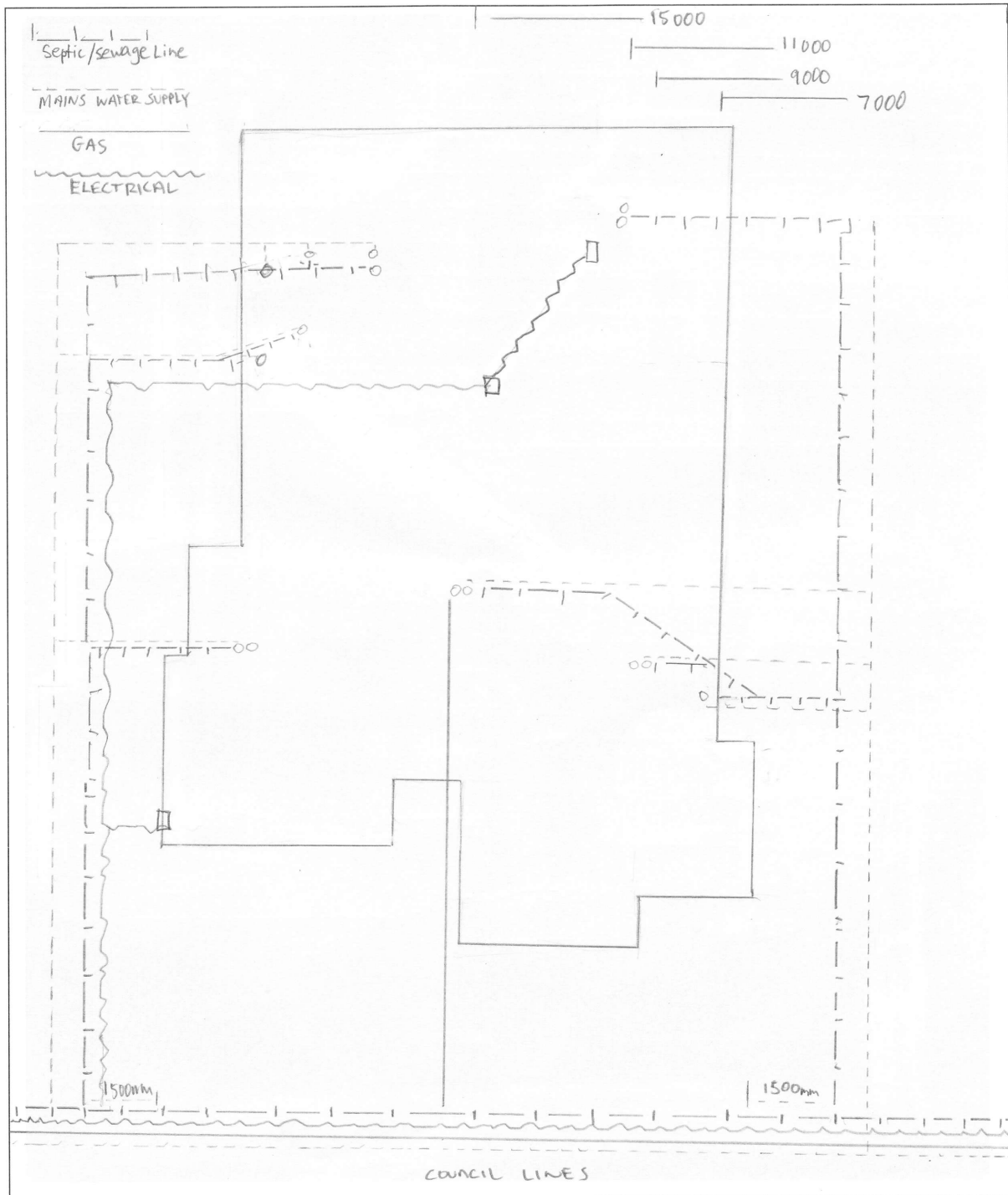


Answer



- Q7. Draw a schematic preparatory drawing of all pipework (including sewerage, plumbing, electrical and other services).

To assist with determining the location and installation details for all the in-ground and under-slab services (i.e. prior to pouring of the foundations and concrete slab), refer to the floor plan and the site plan you developed in 0

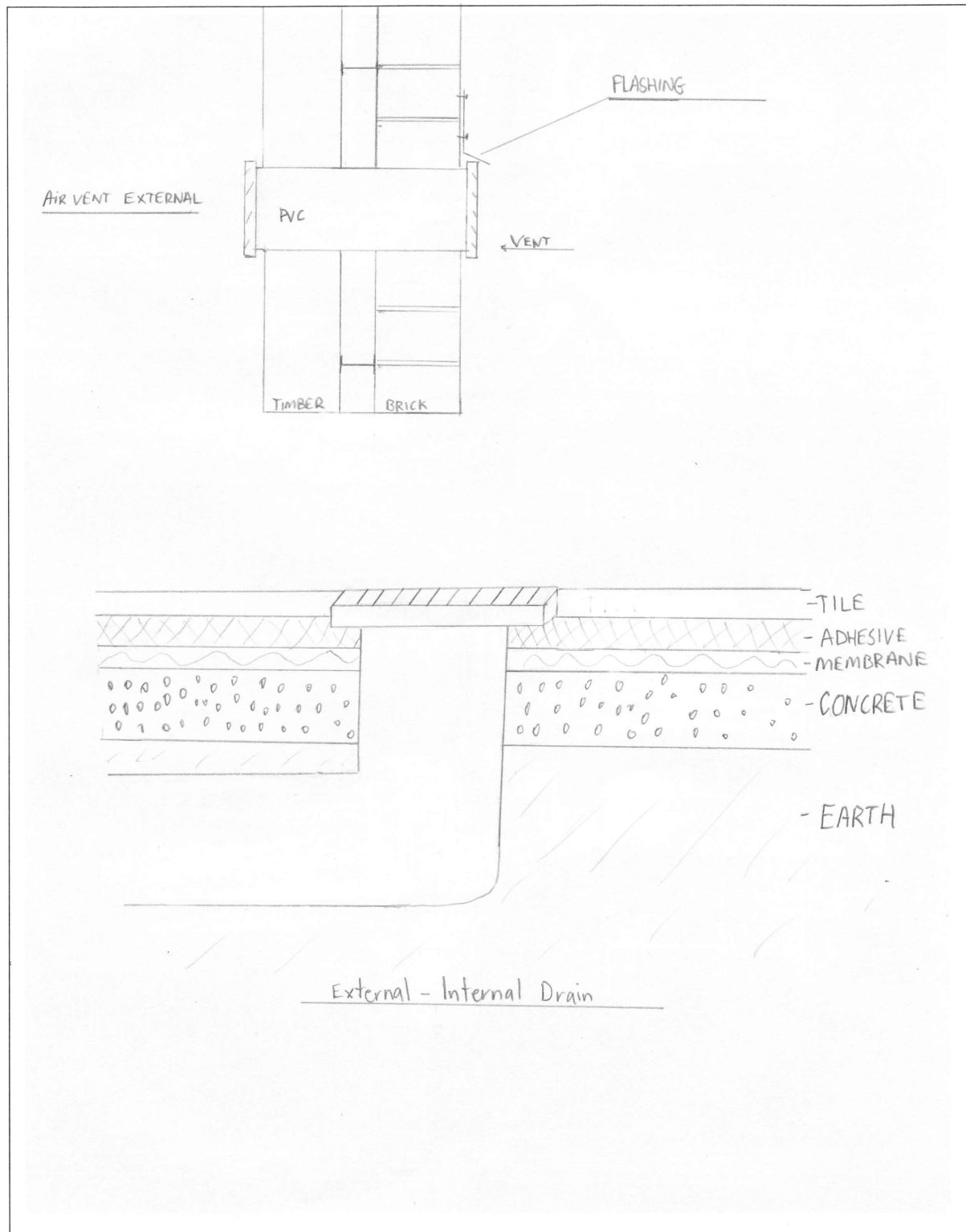


Answer



Q8. Identify all internal and external wall penetrations and create a schedule and sketch to be provided to each of the affected trade sub-contractors.

Refer to the drawings in Q3. and 0to assist with this task.



Answer



Q9. Your client has approached you seeking consideration to redesign the area of the laundry, scullery and Bedroom 5. They are considering foregoing Bedroom 5 altogether and increasing the scullery to make it a large butler's walk-in pantry and essentially leaving the laundry as is.

They have asked you to redesign this area of the home and have agreed to pay you for it separately. You have agreed to terms in this regard. You have agreed you will prepare formal floor plan sketch/es of this area redesigned for discussion with the client in two weeks' time.

You are to also present a pros and cons written argument for the client to help them determine if they should proceed with this variation.

TIPS

Your initial research should consider what goes into a Butler's Pantry, what are others doing with designs and layouts including refrigeration, storage, preparatory areas, electrical equipment and white goods.

You should intend to visit and/or research new and existing housing estates and establish what other Developers and Builders are incorporating in Butler's Pantry in their housing designs then to capture camera and computer images so you can discuss these various options and the drawn variation with the client as you present your ideas and sketch floor plan amendments for reconfiguring this area of their home.

Answer

Pros

- * Appropriate storage for appliances
- * Extra house storage space
- * Keeping Laundry space away from food for hazardous chemicals
- *

Cons

- * No ramp up or extra br
- * One access to laundry through garage

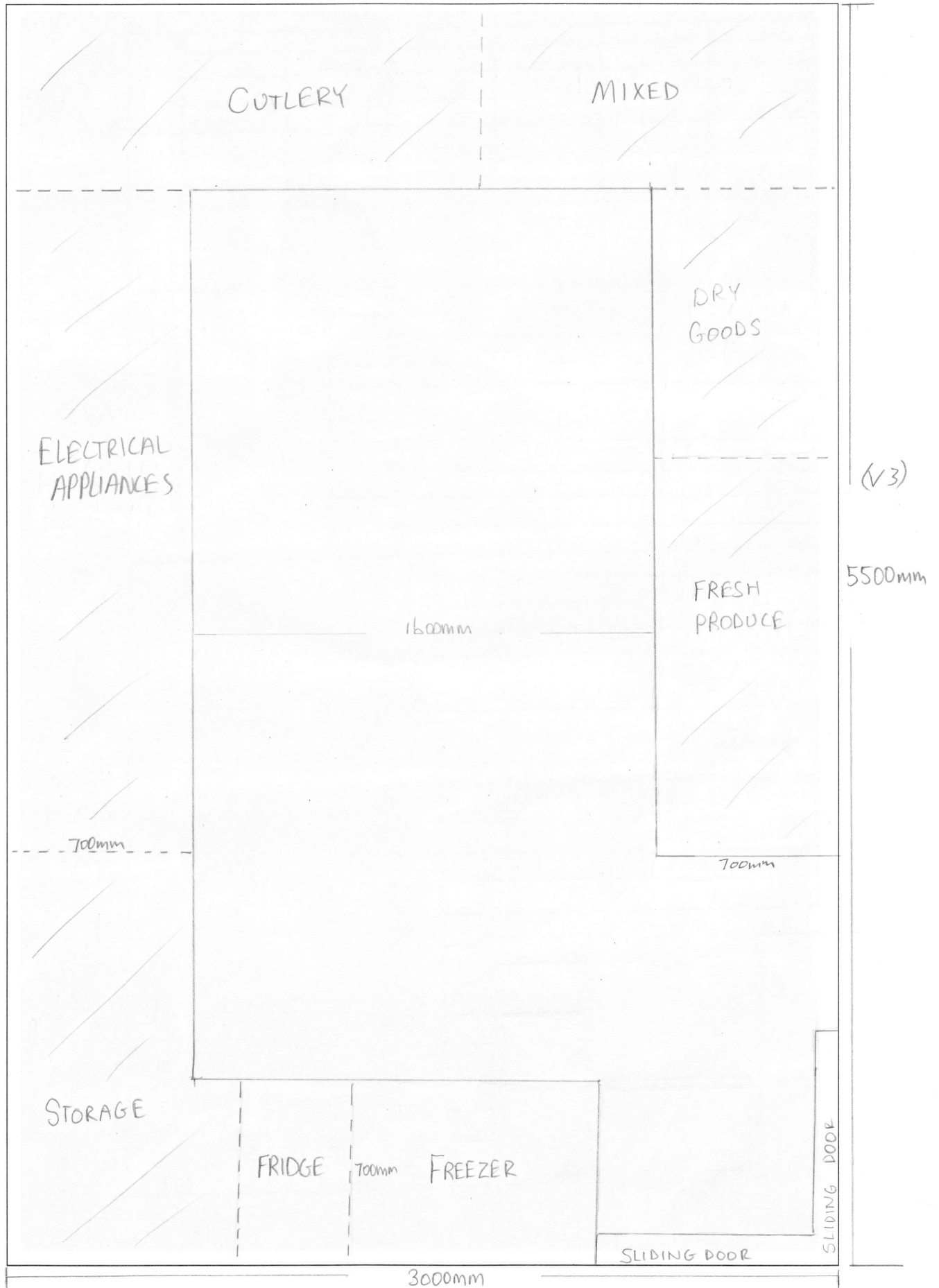
Formal floor plans are attached with detailed view of the walk in pantry. Pros and cons are added with new modern view of pantry access. Please advise any extra points or variations to the plans.



(V4)



(VI)



(V2)

OPEN
SHELVES

CLOSED
CABINETS

(APPLIANCES)

(DRY
GOODS)

(FRESH
PRODUCE)

CUTLERY

MIXED

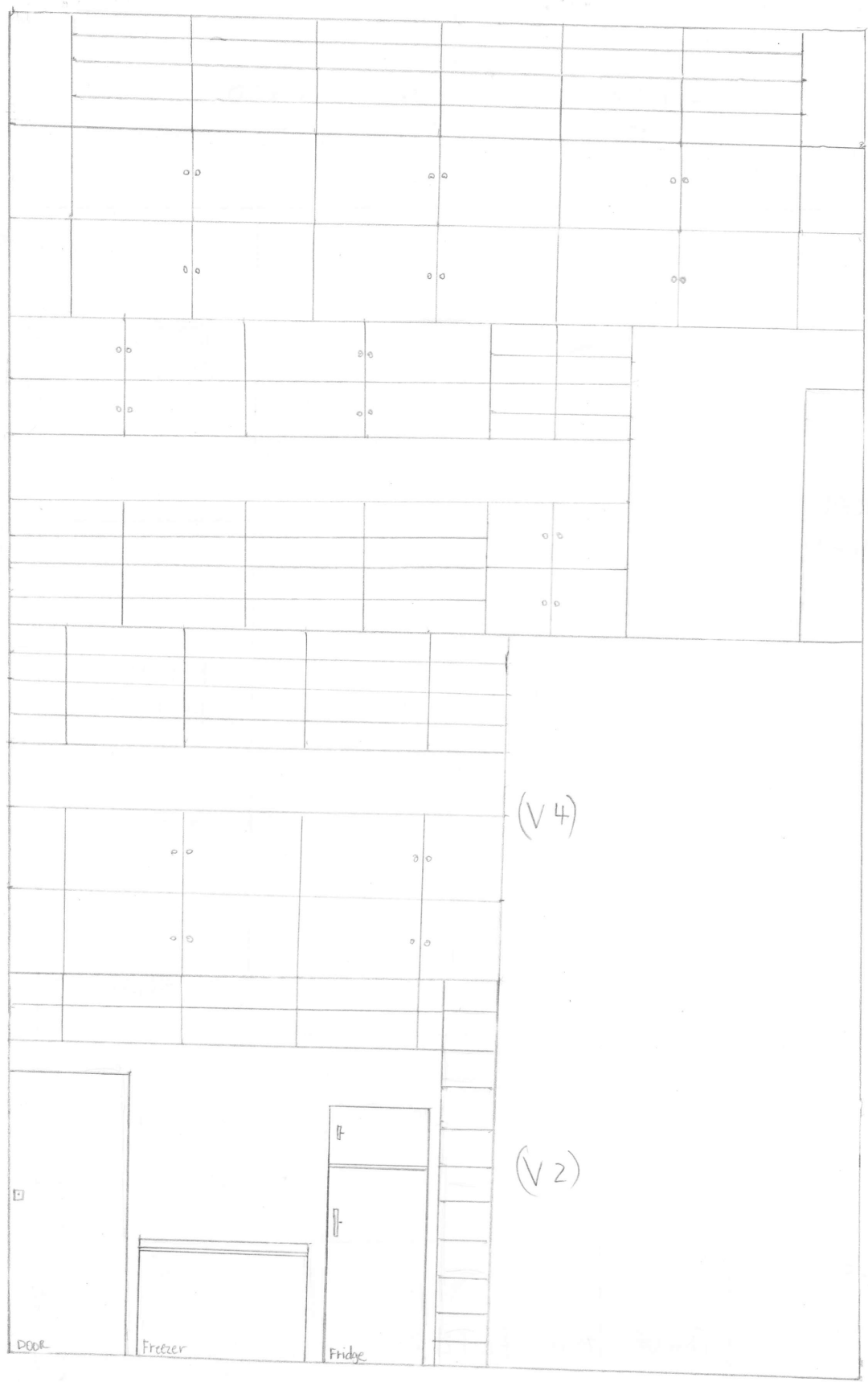
STORAGE
FREEZER
FRIDGE
SLIDING
DOOR

(V1)

(V3)

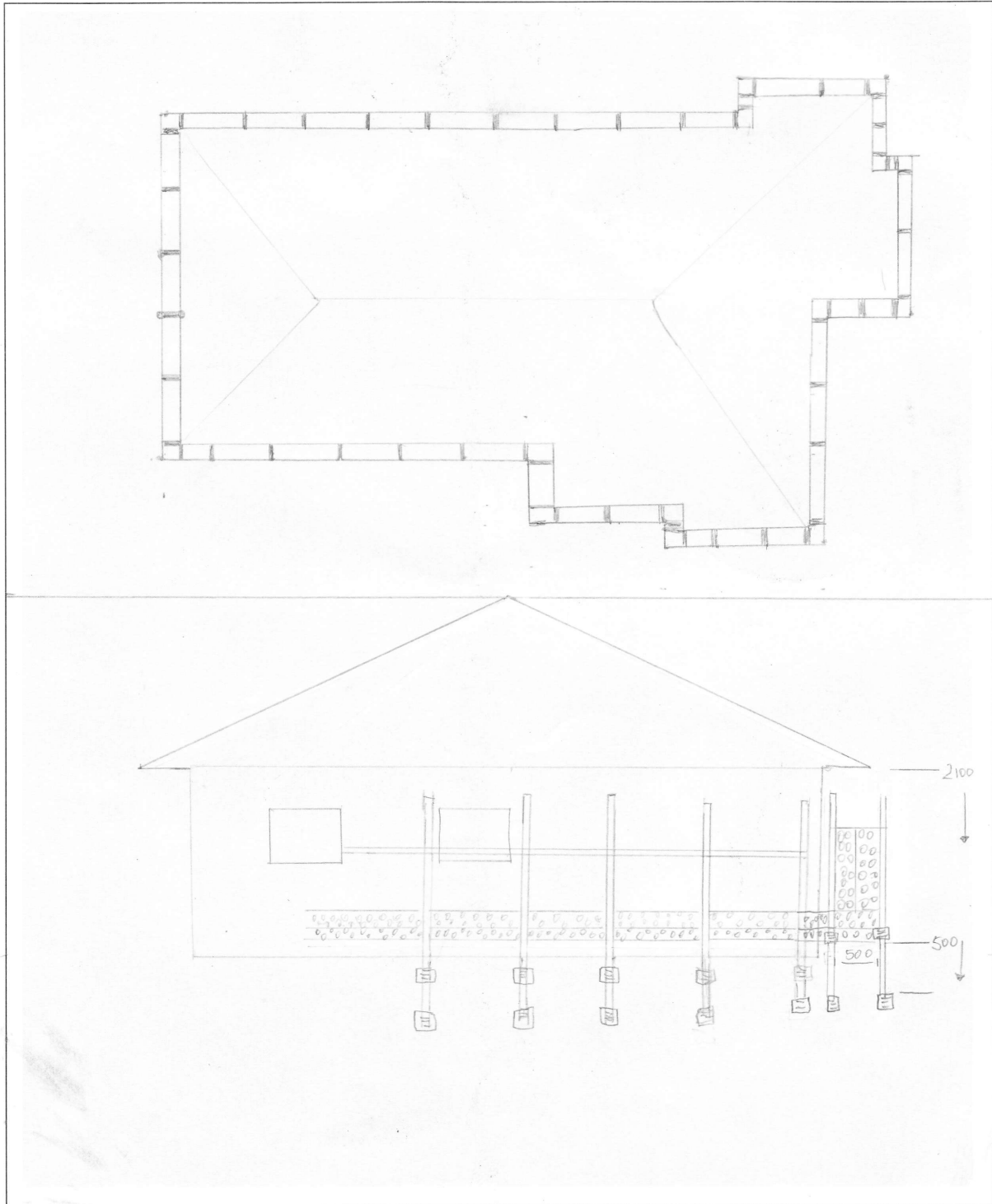
(V4)

(V2)



- Q10. Consider the erection of scaffolding for the brick layer, metal fascia and gutter installation and soffit installation.

Draw a scaffold plan for the entire building and draw an elevation showing a minimum of two bays and one corner return. Ensure the plans follow all relevant standards, codes and authority requirements.



Answer





Q11. Write a personal protective equipment (PPE) plan and from this prepare a PPE induction toolbox talk for the site.

Answer

PPE PLAN

- Subcontractors to supply all PPE to adhere to the sites PPE PLAN.
- All PPE to comply with Australian Standards
- 3 strike rule set for workers not following ppe plan on low risk breaches e.g. not wearing gloves.
- 1 strike rule for major breach of ppe plan e.g. no ppe on site.
- Take '5' risk assessments before each task.

Workers are to follow these requirements any questions ask management team on site:-

Head protection:- Hard Hat

Foot and Leg protection:- Steel capped boots, long pants

Hand and Arm protection:- long/sleeve shirt, gloves

Body Protection:- Safety Harness

Hearing Protection:- Ear muffs.

* Only platform ladders on site.

PPE Induction Toolbox Talk:-

* All workers to present blue card before working on site.

* Please all read site PPE plan and sign to confirm. ^{which did}

After a recent injury on site due to A-frame ladder not comply with Australian Standards a worker was injured.

Only platform ladders are permitted on-site as per the ppe plan. Due to sub-contractor that did not comply with on-site safety requirements they will not be allowed to work on this site. This is a reminder to all to read through the ppe plan and comply with the requirements. Can all workers sign on to this

toolbox to prevent the risk of injury and safety on site.

Q12. Write a Hazards Identification Plan for the site which details local pedestrian and traffic flow as well as ingress and egress for cars and trucks, deliveries and personnel overhead cabling and power supply, power access for trades services and locations, dealing with waste materials and general public and on-site worker safety. 

Answer

VACANT
BLOCK

PARKING

STORAGE
AREA

SKIP

DELIVERIES

Vacant block has been made available for use during construction phase at a monthly fee of \$1000. Storage and parking will be available. Skip bins will be on site for waste materials and a daily clean up. Temporary fencing around vacant block and housing block to prevent general public access. Supervisor onsite will assess and supervise sub-contractors and give risk assessments on works daily to management. JSA, Take's should be used to minimise the risks of injury and daily prestart's will bring up and hazards of previous day. Any hazards identified should be dealt with and corrected to prevent any costs to the contract. Proper traffic management for deliveries and truck access. to prevent accidents or damage to 3rd parties.

