

CPCBC4012
READ AND INTERPRET PLANS AND
SPECIFICATIONS
WORKBOOK

Participant name	Leah Hellewell
------------------	----------------

FOR THE PARTICIPANT

Instructions

- You will complete written activities as outlined on the following pages. You must attempt all questions and provide enough detail in your responses to demonstrate your knowledge.
- The timeframe for these tasks will be established by your Assessor or Training Plan, but additional time may be allowed upon negotiation with the Assessor.
- You must complete all questions unassisted by the Assessor or other personnel but may refer to reference material as needed. All questions must be answered correctly for a 'Satisfactory' assessment outcome to be awarded.
 - An oral examination may be allowed under certain circumstances, whereby your answers will be documented by another party.
 - Any written questions that are incomplete, or not answered satisfactorily will need to be completed again after further training support.
 - If you answer a question incorrectly but modify your response, put your initials next to the written change (or the Assessor must initial a verbal change).

Resources required

Pen

FOR THE ASSESSOR

Instructions

- Where oral examination has occurred, ensure that this is acknowledged in writing (e.g. FT001 and Assessor Comments)
- All questions must be satisfactorily demonstrated by the Participant for a Satisfactory determination (indicated by an Assessor tick to the right of the question).
- Assessors are to complete marking in pen of a different colour to the Participant.
- If the Participant verbally modifies their response, write in the modified response verbatim and put your initials next to the written change.

ASSESSOR COMMENTS
As necessary, outline: • Details on reattempts, alternative arrangements or reasonable adjustments made. • Where a Participant is deemed 'Not Satisfactory', provide recommendations for future training.

NOTE

At times, you will be provided with a specific business context to which you must respond, otherwise it is anticipated that you will use a workplace of your choosing (your own, or hypothetical) to provide the context to the task.

At all times, the responses in your assessment must reference **Australian** (Queensland or Federal) documentation, including legislation, regulations, codes of practice, standards and guidance publications.

For the following activities, name the State/Territory you will base your research on.

State/ Territory	Queensland
------------------	------------

ACTIVITY 1

Research and document your findings regarding legislation and codes that apply in your state/territory relevant to the following three (3) items. Summarise the requirements relevant to building drawings and sketches you identified and provide the URL where you sourced your responses.

- a) Smoke alarms in a new building
- b) Pool fences
- c) Protection of waterways

a) Smoke alarms

Name of Legislation (Commonwealth or State)	
Australia Standard 3786-2014	Building Regulation 2006
National Construction Code (NCC)	
Summary of relevant excerpt/requirement	
Smoke Alarms Requirements - be photoelectric. - comply with the Standard. (The body of the alarm must be marked with AS3786-2014.) - be hardwired (e.g. 240v) to the mains power supply with a secondary power source (i.e. non removable 10 year battery) or; be powered by 10 year non-removable batteries type photoelectric smoke alarm. - be interconnected with every other smoke alarm in the dwelling so all activate together. - must not contain an ionisation sensor. Smoke alarms must be installed: - on each storey - in each bedroom - in hallways that connect bedrooms and the rest of the dwelling - if there is no hallway, between the bedroom and other parts of the storey; and - if there are no bedrooms on a storey, at least one smoke alarm must be installed in the most likely path of travel to exit the dwelling	
Source (URL or web source)	
https://www.fire.qld.gov.au/prepare/fire/smoke-alarms	

b) Pool fence installation

Name of Legislation (Commonwealth or State)
Queensland Development Code MP 3.4 - Swimming Pool barriers
Summary of relevant excerpt/requirement
To help make your pool fence or barrier compliant: - replace, tighten or adjust the hinges on your gates - ensure the pool barrier height is at least 1200mm from bottom to top - trim back any vegetation or branches that a child could use to climb over the pool barrier - shield or remove climbable objects within 900mm of the pool barrier - install fixed security screens on windows that open into the pool enclosure - remove climbable objects from the pool barrier and surrounding areas If you have a pool, it must have a pool fence or Barrier. This must be well maintained at all times.
Source (URL or web source)
https://www.qld.gov.au/housing/buying-owning-home/pool-safety/pool-laws-and-standards/fences-and-barriers

c) Protection of waterways

Name of Legislation (Commonwealth or State)
The Water Act 2000 (Qld) (Water Act)
Summary of relevant excerpt/requirement
The Water Act provides a system of interrelated plans, licences and permits for the regulation of in-stream (watercourses, lakes and springs), overland water flow and groundwater. These include: water plans—the most important plans for water management in Queensland. They are prepared through a consultative process generally on a catchment-by-catchment basis. Water plan areas exist for many catchments in the state including the Fitzroy River and Burnett River water-use plans—prepared for areas at risk of land or water degradation (s 60) water licences—authorise the taking of water from a location or the interference with water at a location (s 106).
Source (URL or web source)
https://queenslandlawhandbook.org.au/the-queensland-law-handbook/living-and-working-in-society/laws-affecting-the-environment/water/#:~:text=The%20Water%20Act%202000%20(Qld,for%20irrigation%20and%20other%20uses.

Satisfactory Outcome



B/Head @ 25c Linder with Gyprock Extent

Coffered Ceiling

Clay Bricks
Painted Render finish

Painted render finish

Small S symbol on drawing.



A small, hand-drawn blue 'S' symbol inside a circle, located in the top right corner of the drawing area.

9

ACTIVITY 3

Access Handout 2 (HO2 - Footing Plan) and Handout 3 (HO3 - Slab Plan) and respond to the following:

a) Specify the size and type of reinforcing to be used for BP.1 in Handout 2 (HO2 - Footing Plan)

b) How do you determine where each BP.1 footing pier should be placed?

c) Mark each of the load bearing points in Handout 3 (HO3 - Slab Plan)

a) Specify the size and type of reinforcing to be used for BP.1
450mm Diameter Concrete Board Pier - at SC.1 Concrete Grade 25 MPa
b) How do you determine where each BP.1 footing pier should be placed?
By referring to the schedule of footing or to the footing legend.
c) Mark each of the load bearing points in Handout 3 (HO3 - Slab Plan)
11x Points - Marked Pink

Satisfactory Outcome

☐

ACTIVITY 4

Access Handout 4 (HO4 - Residential Floor Plan) and respond to the following:

- a) Which drawings are shown in these plans?
- b) Which Australian Standard must be referenced when installing termite protection?
- c) Make a list of the finishes noted on the document.

a) Which drawings are shown in these plans?

Elevation Drawings and Floor Plan.

b) Which Australian Standard must be referenced when installing termite protection?

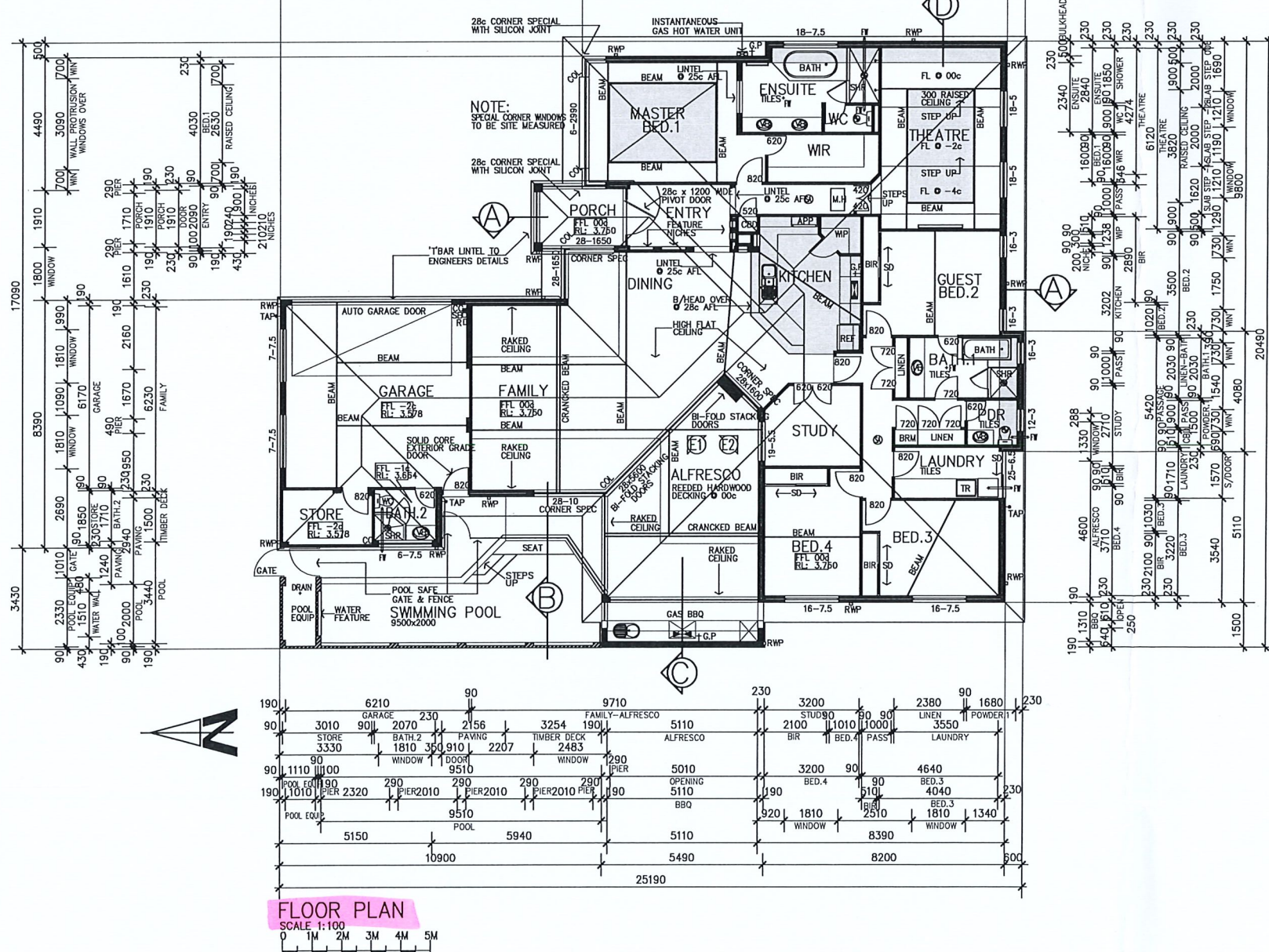
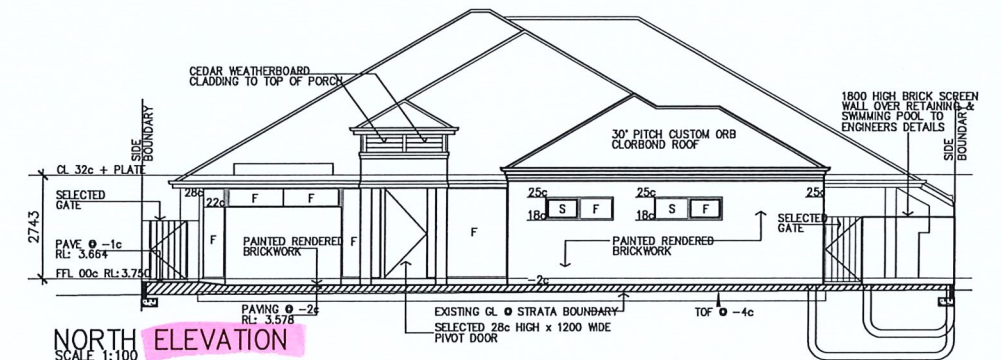
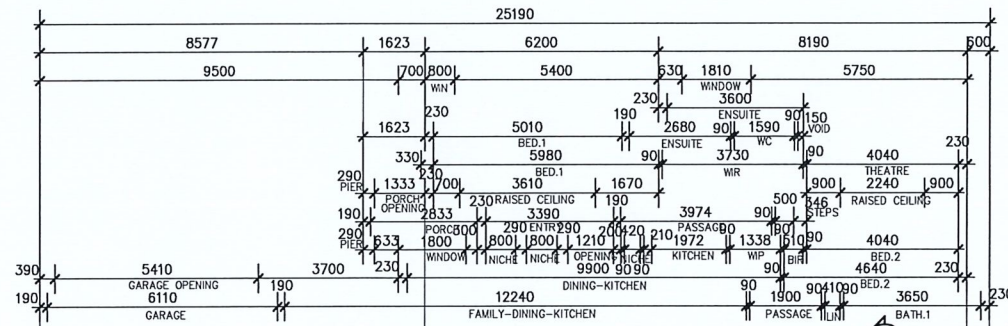
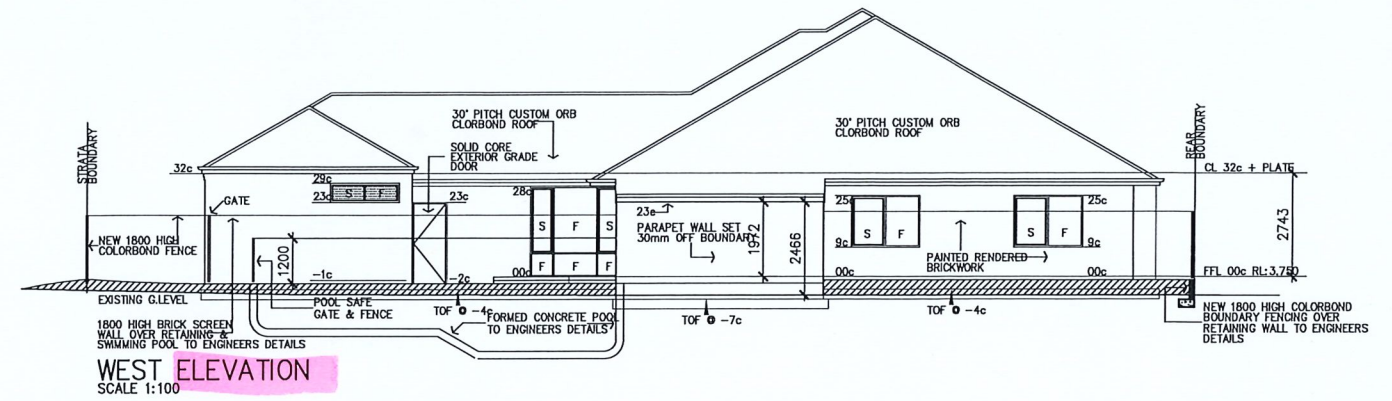
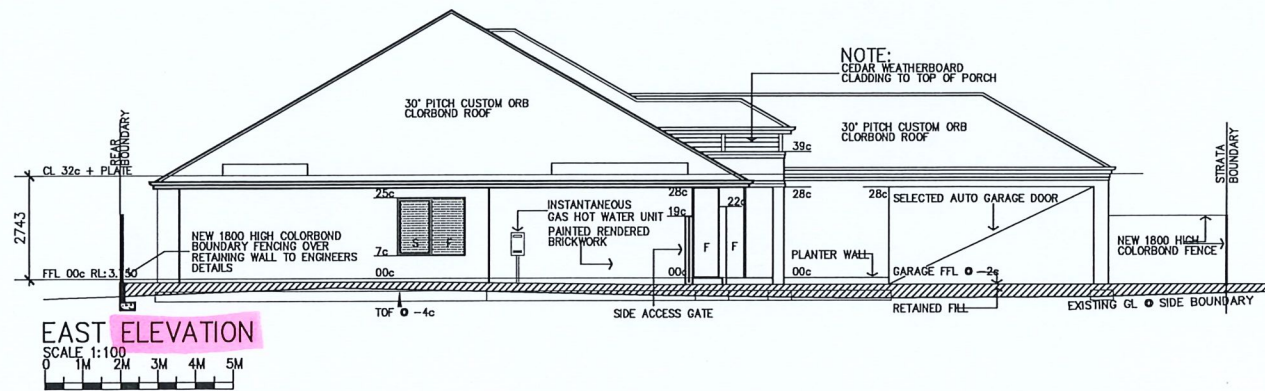
Australian Standard AS 3660 SE

c) Make a list of the finishes noted on the document.

- Roof - Custom Orb deep ocean Colourbond
- Gutter/Fascia - Deep Ocean Colourbond
- Walls - Dulux Cargo River
- Corbells - Dulux Calf Skin
- Window Frames - Powder Coat Anotech Grey
- Paving - Lifestyle pacing liquid limestone

Satisfactory Outcome ☐





LEGEND:

- EXTENT OF RAISED/DROPPED CEILINGS
- OR BULKHEADS
- EXTENT OF BOUNDARY SCREEN WALLS
- HARD WIRED SMOKE DETECTOR/ALARM
- EXHAUST FAN
- RANGE HOOD
- BEAMS OVER TO ENGINEERS DETAILS
- LAUNDRY TROUGH
- SHOWER RECESS
- VANITY BENCH AND BASIN
- WATER CLOSET
- DISH WASHER
- FLOOR WASTE
- INTERNAL SWITCH BOARD
- CAVITY CLOSER

GENERAL NOTES:

1. BUILDER SHALL BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS PRIOR TO COMMENCING WORKS AND OR SHOP DRAWINGS.
2. BUILDER SHALL CONFIRM & OR LOCATE ALL EXISTING SERVICES ON THE SUBJECT SITE OR LOCATION PRIOR TO ANY EXCAVATION OR DEMOLITION WORKS BEING COMMENCED.
3. BUILDER SHALL CONFIRM ALL LEVELS AND BOUNDARY LINE LOCATIONS PRIOR TO ANY SHOP DRAWINGS OR SITE WORKS AND OR ORDERING OF MATERIALS, BE COMMENCED.
4. BUILDER & TRADES, ONCE COMMENCING WORKS, ACCEPT SITE CONDITIONS.
5. ALL LEVELS ARE FOR REFERENCE USE ONLY. ALL LEVELS ARE NOT TO A.H.D. (UNLESS OTHERWISE NOTED).
6. ALL WORKS SHALL BE IN ACCORDANCE WITH ALL RELEVANT CODES, STANDARDS, BY-LAWS, REGULATIONS, ETC.
7. ANY WORKS DOCUMENTED THAT DO NOT COMPLY WITH THE ABOVE, MUST BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO COMMENCEMENT OF ANY WORKS OR SHOP DRAWINGS AND OR ANY ORDERING OF MATERIALS.
8. BUILDER SHALL BE RESPONSIBLE FOR CO-ORDINATION OF TRADES SO THAT NO SERVICES PREVENT THE DESIGN INTENT OR DESIGN AS DOCUMENTED.
9. BUILDER TO INFORM DESIGNER OF ANY DISCREPANCIES BETWEEN DRAWINGS AND CONSULTANT'S DOCUMENTS (IF ANY).
10. BUILDER TO NOTIFY THE DESIGNERS OF ANY CHANGES EITHER REQUIRED OR REQUESTED, IN WRITING PRIOR TO MAKING SUCH CHANGES.
11. ALL WORKS SHALL BE THE RESPONSIBILITY OF THE BUILDER, UNLESS OTHERWISE NOTED.

AREAS:

OVERALL SITE:	=517.8 M ²
STRATA LOT.1:	=680.87 M ²
STRATA LOT.2:	=630.86 M ²
COMMON PROPERTY:	=206.07 M ²
HOUSE 1	
HOUSE:	=263.29 M ²
GARAGE/STORE:	= 51.57 M ²
ALFRESCO:	= 39.04 M ²
PORCH:	= 6.25 M ²
POOL & EQUIP:	= 28.77 M ²

NOTE:

PROPOSED STRATA BOUNDARIES SUBJECT TO LICENCE SURVEYORS & RELEVANT AUTHORITIES APPROVAL

TERMITE PROTECTION:

BUILDER SHALL PROVIDE "Biflex" Termite & Insect OR SIMILAR APPROVED ANTI-TERMITE TREATMENT APPLIED TO MANUFACTURES INSTRUCTIONS & IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3660 SE

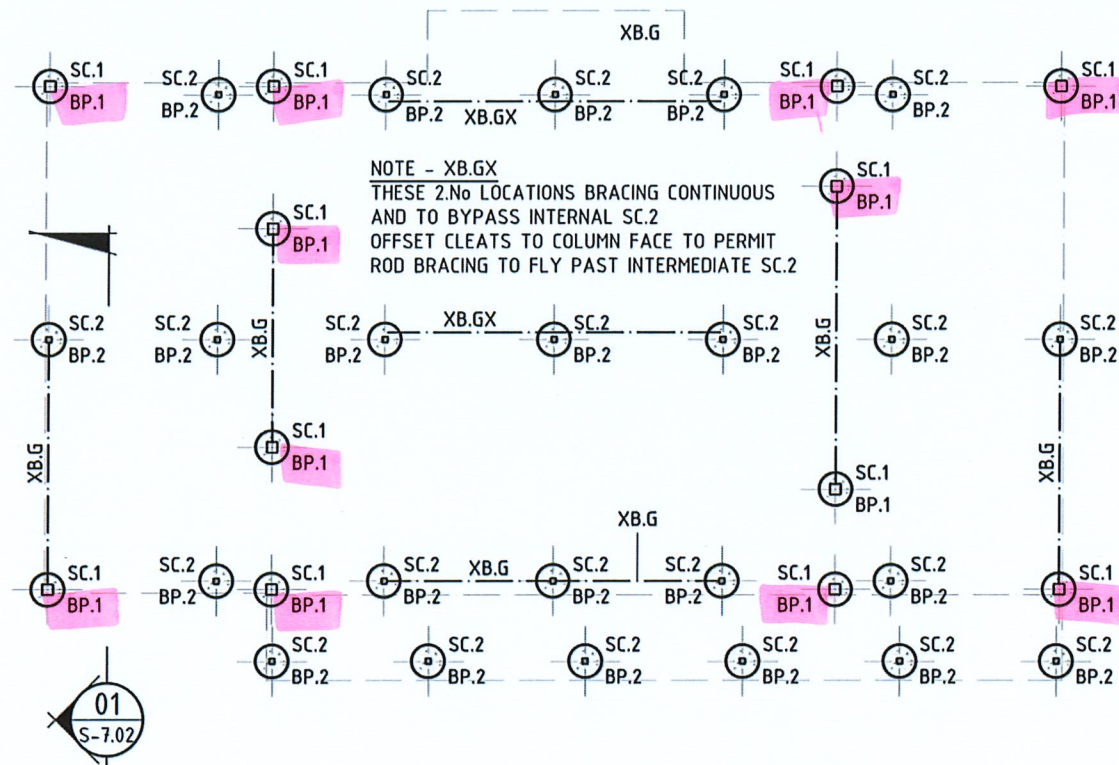
SCHEDULE OF FINISHES

- ROOF: CUSTOM ORB DEEP OCEAN COLOURBOND
- GUTTER/FASCIA: DEEP OCEAN COLOURBOND
- WALLS: DULUX CARO RIVER
- CORBELLS: DULUX CALF SKIN
- WINDOW FRAMES: POWDERCOAT ANOTECH GREY
- PAVING: LIFESTYLE PAVING LIQUID LIMESTONE

CONSULTANTS DRAWINGS:

ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH CONSULTANTS DRAWINGS & SPECIFICATIONS. IF DISCREPANCIES BETWEEN DRAWINGS & OR GIVEN INFORMATION APPEARS, PLEASE CONTACT THIS OFFICE IMMEDIATELY.





STEEL FRAMING LEGEND - TIMBER DECK

COLUMNS

SC.1	150 x 150 x 5.0 SHS	DECK SUPPORT STEEL POST TO UNDERSIDE OF FLOOR BEAMS + SPLICED WITH TP.1 MAXIMUM 4000mm HIGH FROM FOOTING
SC.2	75 x 75 x 4.0 SHS	DECK SUPPORT STEEL POST TO UNDERSIDE OF FLOOR BEAMS - CURTAILED MAXIMUM 3000mm HIGH FROM FOOTING

NOTE SC.2

SC.2	90 x 90 x 5.0 SHS	DECK SUPPORT STEEL POST TO UNDERSIDE OF FLOOR BEAMS - CURTAILED FOR HEIGHTS GREATER THAN 3000mm HIGH FROM FOOTING
------	-------------------	--

BRACING

XB.G	M16 BRACING ROD	CROSS BRACING ROD + TENSIONING DEVICE
XB.GX	M16 BRACING ROD	CROSS BRACING ROD + TENSIONING DEVICE - CLEAT VARIATION FIXING AT SC.2

EXTERNAL STEELWORK INCLUDING FIXINGS + FASTENERS TO BE HOT DIP GALVANISED -
TYPICAL UNLESS NOTED OTHERWISE.
THE BUILDER IS TO CONFIRM WITH ARCHITECTS SPECIFICATION FOR PAINT FINISH AND
TREATMENT TO ALL INTERNAL + EXPOSED STEELWORK.

FOOTING PLAN

INDICATIVE LAYOUT

FOOTING LEGEND

BP.1	450mm DIAMETER CONCRETE BORED PIER - AT SC.1
CONCRETE GRADE	25 MPa
REINFORCEMENT	VERTICAL 5.N12
	LIGS R6 HELIX - 200mm PITCH
COVER	40mm TOP + SIDES
	75mm BASE OF PIER

REFER TO TYPICAL SECTIONS FOR ADDITIONAL DETAILS AND GROUND BEARING
CAPACITY REQUIREMENTS - REFER DRAWING S-7.02

NOTE

ALL EXISTING SERVICES CONFIRMED ON SITE BY THE BUILDER
PRIOR TO THE COMMENCEMENT OF WORKS.

NOTE

SITE GROUND CONDITIONS CAN VARY SIGNIFICANTLY OVER A SHORT DISTANCE.
FOUNDING DEPTHS OF PIERS WILL VARY IN ACCORDANCE WITH THESE CONDITIONS.
IN ALL INSTANCES IRRESPECTIVE OF DESIGN / SPECIFIED PIER DEPTH
PIERS TO BE EXTENDED AS REQUIRED TO SOCKET INTO NATURAL WEATHERED ROCK
400 kPa MINIMUM ALLOWABLE BEARING PRESSURE AS NOMINATED ON THIS DRAWING
MINIMUM 300mm SOCKET.
ALL TO BE DETERMINED AND CONFIRMED ON SITE BY BUILDER.

BP.2	450mm DIAMETER CONCRETE BORED PIER - AT SC.2
CONCRETE GRADE	25 MPa
REINFORCEMENT	VERTICAL 5.N12
	LIGS R6 HELIX - 200mm PITCH
COVER	40mm TOP + SIDES
	75mm BASE OF PIER

REFER TO TYPICAL SECTIONS FOR ADDITIONAL DETAILS AND GROUND BEARING
CAPACITY REQUIREMENTS - REFER DRAWING S-7.02

NOTE

FOOTINGS SHOWN ON THIS PLAN ARE NOT FOR CONSTRUCTION UNTIL A SLIP REPORT
HAS BEEN FORWARDED TO STRUCTURAL ENGINEERS ONLINE PTY LTD, FOR REVIEW
AND CONFIRMED ACCORDINGLY.

EXISTING SERVICES LOCATIONS UNKNOWN

EXISTING STRUCTURES ARE NOT TO BE UNDERMINED BY THE NEW FOOTINGS
ALL STRUCTURES WITHIN INFLUENCE ZONE OF NEW FOOTINGS TO BE MADE STABLE

Issue	Revision Description	By	Date
A	CONSTRUCTION ISSUE	SOG	02.07.20



JEFFREY HILLS & ASSOCIATES
Professional Building and Structural Services
12 Leda Drive
Burleigh Heads, Queensland 4220, Australia
Ph. 1800 721 721 Email: info@jha.com.au

STRUCTURAL ENGINEERS ONLINE PTY LTD.

Concepts + Information Contained In This Document Are The Copyright Of Structural Engineers Online Pty Ltd.
The Use Or Copying Of The Document In Whole Or In Part Without The Written Permission Of The Owners
Structural Engineers Online Pty Ltd Constitutes An Infringement Of Copyright.

All Dimensions Indicated On Drawings Are In Millimetres (mm) - Unless Noted Otherwise
This Drawing Is Full Size On A3 - Do Not Scale This Drawing IF IN DOUBT... ASK!
Any Discrepancies Contact Structural Engineers Online For Verification Before Construction

Drawing Title

FOOTING PLAN + DETAILS

Project Description

PROPOSED TIMBER DECK + ROOF STRUCTURE DESIGN

Project No.	200078	Designed By	K.M
Drawing No.	S-2.01	Revision	A
Discipline	STRUCTURAL	Drawn By	S.O.G
Drawing Status	CONSTRUCTION	Checked By	Z.K
		Date Drawn	02.07.2020

Activity 3