TABLE OF GROUND MGA CONTROL POINTS						
MARK	MGA CO-ORDINATES		HEIGHT	CLASS	ORDER	METHOD
	EASTING	NORTHING				
PM 30074 (Adopted)	283 240.932	6 262 701.746	25.775	B	2	SCIMS
CP 1 BM Nail	283 351.788	6 262 745.710	25.98	-	-	PLACED
CP 2 BM Nail	283 431.493	6 262.757.840	26.40	-	-	PLACED
COMBINED SEA LEVEL SCALE FACTOR 1.000 171 ZONE 56						
SOURCE: MGA CO-ORDS ADOPTED FROM SCIMS DATE: 29/08/2018						

LEGEND

- Bench Mark
- Light Pole
- Power Pole
- Bollard
- S6=Spread of Tree 6m, D0.2=0.2m Diametre Of Trunk, H10=10m High
- Communication Pit

1 : 100 0 2 4 6 8 10m

MGA MAP GRID AUSTRALIA

NOTE:
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NOTES:

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* RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
* THE TREE SIZES ARE APPROXIMATE ONLY. FURTHER FIELD INSPECTION SHOULD BE CARRIED OUT WHERE TREE DETAILS ARE CONSIDERED TO CRITICALLY AFFECT DESIGN.
  THE TREE SIZES ARE SHOWN AS:- TRUNK DIAMETER/CANOPY SPREAD/HEIGHT
* ORIGIN OF LEVELS: PM 30074 RL 25.775 (SCIMS 29-08-2018)

PT 1
DP 650753
8094m² (Title)

Approximate Position Only
128°31'25"
124.358

7042
DP 93967

Brick & Clad Building Metal Roof
Verandah Brick Pavers (Below)
Metal Awning Concrete (Under)
Stone Out House Metal Roof
Brick Outhouse
Concrete
Slotted Drain
Brick Pavers
Concrete Slab
Clad Extension (Metal Roof)
Ramp (Brick Pavers)
Clad Building Metal Roof
Stone Building Metal Roof
Covered Band Stand
Artificial Grass Shade Sail (Above)
Play Equipment
Sand Area
Garden Bed (Planter Box)
Disused Water F
Grass
Fence
Cyclone
Security
Gate
Seat
(Manproof)

SHEET TWO ADJOINS
SHEET THREE ADJOINS

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Client: Penrith City Council	Project: PARTIAL DETAIL, LEVELS & CONTOUR SURVEY OVER PT LOT 1 IN DP 650753 LAWSON STREET, EMU PLAINS	FREEBURN SURVEYING	MATTHEW FREEBURN LAND, ENGINEERING & MINING SURVEYOR SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE" 2 CASTLEREAGH STREET PENRITH 2750	Telephone 02 4721 2289 Fax 02 4721 5646 email l.mcgrann@freeburnsurveyors.com or matthew@freeburnsurveyors.com

Scale 1:100	Datum: AHD	Contour: 0.5m
Surveyor: TB/DC	Drawn By: LJMc	Checked: MF
Date of Survey: 29/08/2018		Sheet 1 of 3
AUTOCAD	REVISION 00 07/09/18	36 505 DETAIL

LJMc

Document Set ID: 8632859
Version: 1, Version Date: 27/03/2019

A1 SHEET

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MGA NORTH

LEGEND

- Bench Mark
- Light Pole
- Power Pole
- Bollard
- S6=Spread of Tree 6m, D0.2=0.2m Diametre Of Trunk, H10=10m High
- Communication Pit

TABLE OF GROUND MGA CONTROL POINTS						
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	EASTING	NORTHING				
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COMBINED SEA LEVEL SCALE FACTOR 1.000 171 ZONE 56						
SOURCE: MGA CO-ORDS ADOPTED FROM SCIMS DATE: 29/08/2018						

SHEET ONE ADJOINS

SHEET THREE ADJOINS

PT 1
DP 650753
8094m² (Title)

Cadastral Note:
Lot to be acquired for purposes of Main Roads Act 1974 vide Lot 1 DP 617429

Status to be confirmed (No Title available)

Control Point 1
BM Nail in Kerb
RL 25.98 AHD

1 : 100 0 2 4 6 8 10m

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Client: Penrith City Council	Project: PARTIAL DETAIL, LEVELS & CONTOUR SURVEY OVER PT LOT 1 IN DP 650753 LAWSON STREET, EMU PLAINS	FREEBURN SURVEYING	MATTHEW FREEBURN LAND, ENGINEERING & MINING SURVEYOR SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE" 2 CASTLEREAGH STREET PENRITH 2750

Telephone 02 4721 2289
Fax 02 4721 5646
email l.mcgrann@freeburnsurveyors.com
or matthew@freeburnsurveyors.com

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A1 SHEET

LJMc

Document Set ID: 8632859
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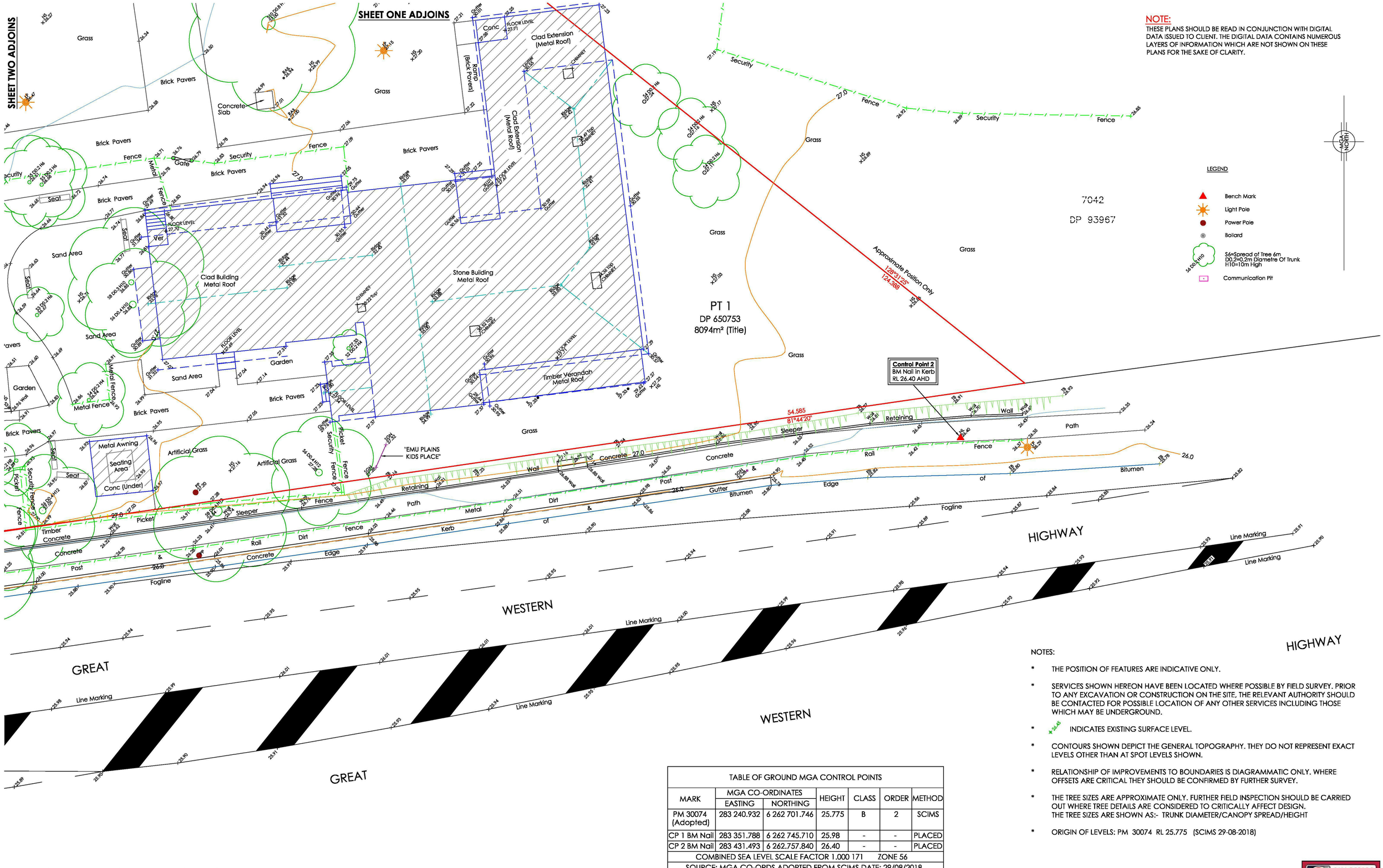

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* ORIGIN OF LEVELS: PM 30074 RL 25.775 (SCIMS 29-08-2018)

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Client: Penrith City Council

Project: PARTIAL DETAIL, LEVELS & CONTOUR SURVEY OVER PT LOT 1 IN DP 650753 LAWSON STREET, EMU PLAINS

FREEBURN SURVEYING

MATTHEW FREEBURN
LAND, ENGINEERING & MINING SURVEYOR
SUITE 2, FIRST FLOOR, "SURVEYOR HOUSE"
2 CASTLEREAGH STREET
PENRITH 2750

Telephone 02 4721 2289
Fax 02 4721 5646
email l.mcgrann@freeburnsurveyors.com
or matthew@freeburnsurveyors.com

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AUTOCAD	REVISION 00 07/09/18	36 505 DETAIL

A1 SHEET

CONSTRUCTION NOTES

GENERAL NOTES

G1 THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS, THE SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

G2 ANY DISCREPANCY ON THE DRAWINGS OR BETWEEN THE DRAWINGS AND/OR THE SPECIFICATION AND/OR THE SPECIFIED S.A.A. STANDARDS SHALL BE REFERRED TO THE ENGINEER AND A WRITTEN INSTRUCTION RECEIVED PRIOR TO PROCEEDING WITH THE WORK. DURING TENDERING THE TENDERER SHALL ASSUME THE LARGER/GREATER CRITERIA IN TERMS OF COST IN THE ABSENCE OF OTHER INSTRUCTIONS.

G3 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT S.A.A. STANDARDS, INCLUDING ALL AMENDMENTS, AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY, EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

G4 ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION ARE COMMENCED. THE ENGINEERS DRAWINGS ARE NOT TO BE SCALED. NO RESPONSIBILITY WILL BE TAKEN BY THE ENGINEER FOR DIMENSIONS OBTAINED BY SCALING THE DRAWINGS.

G5 SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER AND BE INCLUDED IN ANY TENDER.

G6 DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION; ENSURING NO PART SHALL BE OVER-STRESSED DURING CONSTRUCTION ACTIVITIES. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

G7 THE STRUCTURAL DRAWINGS DO NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, SLEEVES, OPENINGS, ETC. REQUIRED BY THE VARIOUS TRADES. ALL SUCH DETAILS, INCLUDING OPENINGS FOR CONSTRUCTION PURPOSES, MUST BE APPROVED BY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

G8 UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

G9 THE STRUCTURE SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING DESIGN DEAD/LIVE LOADS U.N.O. (AS/NZS1170.1:2002):

ROOF-STEEL SHEET (NON TRAFFICABLE)	0.5	0.25
ROOF-TILED (NON TRAFFICABLE)	1.0	0.25
GENERALLY	0.5	2.0
FOYERS, STAIRS, BALCONIES	0.5	4.0
COMMERCIAL	1.0	5.0
COMPACTUS AREA	2.5	10.0
PLANT ROOMS	1.5	7.5
LIGHT VEHICLE TRAFFIC	1.0	2.5
MEDIUM VEHICLE TRAFFIC	1.5	5.0
TRAFFICABLE ROOF	0.5	1.5
DINING AREAS. (AREAS WITH TABLES)	0.5	2.0
MULTIPURPOSE HALLS (AREAS WITHOUT FIXED SEATING)	0.5	5.0
LIBRARY (STACK), STOREROOMS, PLANT ROOMS, ETC.	TO BE ASSESSED INDIVIDUALLY	TO BE ASSESSED INDIVIDUALLY

THE STRUCTURE SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING DESIGN WIND LOADS U.N.O. (AS/NZS 1170.2:2002):

WIND TERRAIN CATEGORY	3
IMPORTANCE LEVEL	3
AVERAGE RECURRENCE INTERVAL	1000 YEARS
REGIONAL WIND SPEED, V_R	46 m/s
WIND DIRECTION MULTIPLIER, Md	1.0 (ANY DIRECTION)
TERRAIN/HEIGHT MULTIPLIER, Mz,cat	0.83
SHIELDING MULTIPLIER, Ms	1.0
TOPOGRAPHIC MULTIPLIER, Mt	1.0
ULTIMATE DESIGN WIND SPEED, V ultimate	38 m/s
SERVICEABILITY DESIGN WIND SPEED, V service	31 m/s

G10 WHERE EXCAVATION WORK IS TO BE CARRIED OUT ADJACENT TO EXISTING FOOTINGS, THE EXACT LEVEL OF THE UNDERSIDE OF THE FOOTINGS SHALL BE OBTAINED BY TEST PITS PRIOR TO COMMENCING EXCAVATION. WHERE UNDERPINNING AND/OR SHORING OF THE STRUCTURE IS NECESSARY, THESE WORKS SHALL NOT COMMENCE UNTIL ADVICE HAS BEEN RECEIVED FROM THE STRUCTURAL ENGINEER.

G11 REFER TO THE ARCHITECTURAL DRAWINGS FOR BRICK AND BLOCK WALL THICKNESS, FALLS IN SLAB, EXTRA PACKING, WATERPROOFING MEMBRANES, CONTRACTION JOINT FILLING MATERIALS AND ALL OTHER ARCHITECTURAL FEATURES SUCH AS DRIP GROOVES, POUR BREAKS IN OFF-FORM CONCRETE, FILLETS, ETC. WHERE NOT NOTED ON THESE DRAWINGS.

G12 REFER TO ARCHITECTURAL DRAWINGS FOR ALL ADDITIONAL PLATES, ANGLES, ETC. REQUIRED ON STRUCTURAL STEELWORKS FOR FIXINGS TO INTERNAL PARTITIONS, BLOCKING, WINDOW FRAMES, FLASHINGS, CAPPING, ETC.

G13 ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

G14 CONSTRUCTION SHALL NOT COMMENCE UNTIL BUILDING APPROVAL HAS BEEN RECEIVED FROM THE RELEVANT AUTHORITIES.

G15 THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN THE SERVICES OF AN INDEPENDENT ENGINEER AS NECESSARY FOR THE PREPARATION AND EXECUTION OF A COMPREHENSIVE SAFE ERECTION PROCEDURE THAT WILL AT ALL TIMES ENSURE THE STABILITY OF THE WORKS, SAFETY OF ALL PERSONNEL AND PROTECTION OF SURROUNDING PROPERTY INCLUDING THE DESIGN, CERTIFICATION AND PROVISION OF ALL NECESSARY TEMPORARY BRACING AND SUPPORT.

FOUNDATION NOTES

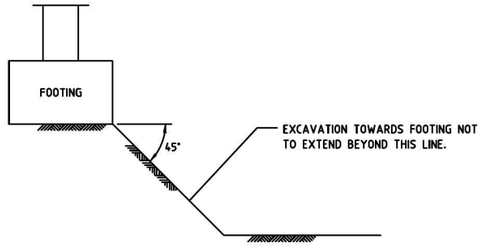
F1 THE MINIMUM SAFE BEARING CAPACITY OF THE FOUNDATION MATERIAL IS TO BE:
400 kPa FOR STRIP FOOTINGS DOWN TO CLAY
400 kPa FOR PAD FOOTINGS DOWN TO CLAY
REFER TO GEOTECHNICAL REPORT BY XXXX REPORT XXXX
No. XXXX DATED XXXX

F2 RESIDENTIAL SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR A REACTIVITY CLASS 'M' IN ACCORDANCE WITH AS2870.

F3 ALL FOOTINGS SHALL BE FOUNDED A MINIMUM OF 100mm INTO NATURAL GROUND. WHERE THE DEPTH OF NATURAL GROUND IS BEYOND THE SPECIFIED FOOTING DEPTH, THE 100mm EMBEDMENT MAY BE ACHIEVED BY EXTENDING THE FOOTING, OR BY BUILDING UP WITH 15MPa BLINDING CONCRETE. BEFORE ANY REINFORCEMENT OR CONCRETE IS PLACED, THE SAFE BEARING CAPACITY OF THE GROUND IS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER. EXCAVATION SHALL CONTINUE UNTIL THE REQUIRED BEARING CAPACITY IS FOUND. THE OVER-EXCAVATION SHALL BE BACKFILLED WITH BLINDING CONCRETE TO THE ASSUMED FOUNDING LEVEL.

F4 OVER-EXCAVATION WITHIN THE INFLUENCE ZONE (45° LINE FROM BASE OF WALL) OF ANY RETAINING WALL IS NOT ALLOWED WITHOUT THE PRIOR APPROVAL OF THE EXCAVATION SEQUENCE BY THE ENGINEER.

F5 EXCAVATION SHALL NOT EXTEND BELOW A LINE DIPPING AT 45° AND AWAY FROM THE NEAREST UNDERSIDE CORNER OF ANY EXISTING FOOTINGS.



F6 EXCAVATIONS OR PAD STRIP FOOTINGS AND SLAB EDGE FOOTINGS SHALL BE BLINDED WITH A MINIMUM OR 50mm CONCRETE WITHIN 24 HOURS OF EXCAVATION WHEN IT IS INTENDED TO POUR FOOTINGS MORE THAN 24 HOURS AFTER EXCAVATION. NOTWITHSTANDING THE ABOVE, NO CONCRETE SHALL BE PLACED UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY ALL RELEVANT AUTHORITIES.

F7 GROUND SLABS SHALL BE POURED ON AN APPROVED CONTINUOUS DAMP-PROOF BARRIER (MINIMUM 0.2mm THICK) OVERLYING A 50mm LAYER OF COMPACTED SAND.

F8 THE DEPTHS TO UNDERSIDE OF ALL FOOTINGS ARE PROVISIONAL ONLY. AFTER EXCAVATION, APPROVAL SHALL BE OBTAINED FROM THE ENGINEER FOR ALL LEVELS WHICH MAY BE VARIED IF NECESSARY PRIOR TO FURTHER WORK.

F9 THE FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF WATER AT ALL TIMES BY BAILING AND PUMPING IF NECESSARY, PARTICULARLY PRIOR TO CONCRETING. CONCRETE SHALL NOT BE PLACED IN WATER.

F10 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.

F11 A RISE OF 1.0m A RUN OF 1.5m SHALL NOT BE EXCEEDED FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.

F12 FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT OF THE FOUNDATION MATERIALS THROUGH EXPOSURE.

F13 RETAINING WALLS (OTHER THAN CANTILEVER WALLS) SHALL NOT BE BACKFILLED UNTIL THE (FLOOR) CONSTRUCTION AT THE TOP AND BOTTOM IS COMPLETED AND HAS ATTAINED ADEQUATE STRENGTH. CANTILEVER WALLS SHALL NOT BE BACKFILLED UNTIL THEY HAVE ATTAINED ADEQUATE STRENGTH. ENSURE FREE DRAINING BACKFILL DRAINAGE LINES TO FALLS (OR WEEPHOLES) ARE IN PLACE.

SUBGRADE PREPARATION NOTES

SP1 THE SITE SHALL BE EXCAVATED TO LEVELS SHOWN ON THE RELEVANT DRAWINGS.

SP2 SELECTED FILLING / HARDCORE, ETC. AND SAND BLINDING UNDER SLABS SHOWN ON DRAWINGS SHALL BE PLACED IN LOOSE LAYERS NOT EXCEEDING 150mm AND COMPACTED TO 98% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E1.1 (DENOTED AS STRUCTURAL FILLING)

SP3 ALL STRUCTURAL FILL TO BE APPROVED BY THE ENGINEER.

SP4 THE ENTIRE AREA COVERED BY THE BUILDING SHALL BE STRIPPED OF ORGANIC MATTER OR CUT TO THE REQUIRED LEVEL, REMOVING ALL EXISTING FILL (REFER TO THE GEOTECHNICAL REPORT). THE AREA SHALL THEN BE ROLLED USING A 10 TONNE VIBRATING ROLLER (A MINIMUM OF 8 PASSES). SUBGRADE ARE AS SHALL THEN BE PROOF ROLLED TO THE SATISFACTION OF THE SUPERINTENDENT. ANY SOFT SPOTS SHALL BE REMOVED AND BACKFILLED IN ACCORDANCE WITH NOTE F12.

SP5 REPLACE ALL SOFT SPOTS, OVER EXCAVATION AND BRING TO THE REQUIRED LEVELS USING APPROVED FILL PLACED AND COMPACTED IN ACCORDANCE WITH NOTE SP2.

GENERAL NOTES CONT.)

G16 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF BOTH THE DEPTH AND LOCATION OF ALL SERVICES AND UNDERGROUND STRUCTURES PRIOR TO PROCEEDING WITH THE WORKS.

G17 IF ANY OF THE STRUCTURE PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE STRUCTURAL ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

G18 U.N.O. - DENOTES 'UNLESS NOTED OTHERWISE'

G19 ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

CONCRETE NOTES

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION INCLUDING AMENDMENTS.

C2 CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED WITHOUT THE ENGINEERS APPROVAL. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS. SLABS AND BEAMS ARE TO BE POURED TOGETHER.

C3 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

C4 ALL CONCRETE SHALL BE GRADE 32 (f'c = 32 MPa), NORMAL DENSITY UNLESS NOTED OTHERWISE. MAXIMUM AGGREGATE SIZE 20mm. ADMIXTURES SHALL NOT BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C5 ALL CEMENT IS TO BE "GP" GENERAL PURPOSE PORTLAND CEMENT OR "GB" GENERAL PURPOSE BLENDED CEMENT OR TYPE "SR" SULPHATE-RESISTING CEMENT AS REQUIRED COMPLYING WITH AS3972 UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXTRA RAPID HARDENING SUPERSULPHATED AND HIGH ALUMINA CEMENTS SHALL NOT BE USED. THE USE OF FLY ASH AND/OR SILICA SILICA FUME AS A CEMENT SUBSTITUTE, OTHER THAN THAT PROPORTION ALLOWED AS PART OF THE "GB" CEMENT CONTENT WILL ONLY BE PERMITTED AS PART OF A DESIGNED CONCRETE MIX WHICH HAS BEEN APPROVED IN WRITING BY THE ENGINEER.

C6 EXTERNAL CONCRETE ELEMENT, GRADE S32 MINIMUM, SHALL MEET THE FOLLOWING REQUIREMENTS: MINIMUM PORTLAND CEMENT CONTENT 400kg/m (NO ASH FLY TO BE USED) MAXIMUM WATER/CEMENT RATIO 0.5, SHRINKAGE LIMIT 650 MICROSTRAIN AFTER 56 DAYS AND CHLORIDE CONTENT TO BE RESTRICTED AS PER CLAUSE 4.9 OF AS 3600. NO SALT SHALL BE ADDED. EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER, RAIN AND WATER PENETRATION AND ARE CLASSIFIED B1 UNLESS NOTED OTHERWISE.

C7 CONCRETE SLUMP TO BE A MAXIMUM OF 80mm UNLESS NOTED OTHERWISE ON THE DRAWINGS.

C8 FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1000mm IS NOT PERMITTED.

C9 CAMBER TO SUSPENDED SLABS AND BEAMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE FORMWORK NOTES OR AS NOTED ON THE DRAWINGS. NO CAMBER IS REQUIRED TO POST-TENSIONED SLABS AND BEAMS.

C10 ALL EXPOSED CONCRETE CORNERS TO HAVE 15mm CHAMFER U.N.O.

C11 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN THE CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C12 ALL EMBEDMENTS SHALL BE HOT DIP GALVANIZED.

C13 CONCRETE MUST BE CURED BY AN APPROVED METHOD IN ACCORDANCE WITH THE SPECIFICATION FOR SEVEN DAYS AFTER POURING.

C14 CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF MALTHOID (OR AN APPROVED EQUIVALENT). VERTICAL FACES OF CONCRETE SHALL BE KEPT FREE OF ADJOINING SURFACES BY 10mm THICKNESS OF ABLEFLEX (OR AN APPROVED EQUIVALENT) UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS BY 20mm UNLESS NOTED OTHERWISE ON THE DRAWINGS. SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS OR COLUMNS SHOWN ON THE STRUCTURAL DRAWINGS.

C15 BRICKWORK MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK SUPPORTING SAME, HAS BEEN REMOVED AND THE SLAB HAS UNDERTAKEN ITS DEAD LOAD DEFLECTION.

C16 HIGH FREQUENCY VIBRATORS SHALL BE USED TO COMPACT ALL CONCRETE

C17 SURFACES RECEIVING GROUT SHALL BE LEFT ROUGH AND FREE OF LAITANCE

C18 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.

C19 COVER TO REINFORCEMENT AND CONCRETE GRADE SHALL BE AS SCHEDULE BELOW UNLESS NOTED OTHERWISE.

C20 REINFORCEMENT NOTATIONS;
N DENOTES HOT ROLLED DEFORMED BARS, 500MPa YIELD STRENGTH TO AS/NZS 4671.
R DENOTES STRUCTURAL-GRADE PLAIN ROUND BARS, 230 MPa YIELD STRENGTH TO AS/NZS 4671.
ALL REINFORCING BARS TO AS 1302.
SL/RL DENOTES HARD-DRAWN WIRE REINFORCING SQUARE/RECTANGULAR MESH, 450 MPa YIELD STRENGTH, TO AS/NZS 4671.
ALL REINFORCING BARS TO AS 1302.

THE NUMBER IMMEDIATELY FOLLOWING THE BAR GRADE SYMBOL REPRESENTS THE NOMINAL BAR DIAMETER IN MILLIMETRES. THE FIGURE FOLLOWING THE FABRIC SYMBOL IS THE REFERENCE NUMBER. SUBSTITUTION OF 500N REINFORCING BY 500L MESH IS NOT PERMITTED.

C21 SPLICES IN REINFORCEMENT SHALL BE MADE IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER. MINIMUM LAP FOR ALL FABRICS SHALL BE THE SPACING OF TWO TRANSVERSE WIRES PLUS 25mm.

GRADE 500N BARS SHALL BE LAPPED IN ACCORDANCE WITH AS3600(2009)-CLAUSE 13.2.

C22 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF ENGINEER.

C23 ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION ON APPROVED BAR CHAIRS AT 1000mm MAXIMUM CENTRES BOTH WAYS, SO AS NOT TO BE DISPLACED DURING CONCRETING. WHERE REQUIRED PROVIDE N16 SUPPORT BARS AT 1000mm CENTRES.

C24 UNLESS OTHERWISE SHOWN, PROVIDE N12-300 TOP & BOTTOM BOTH WAYS, MINIMUM TYING STEEL WHERE REQUIRED, LAPPED 300mm AT SPLICES

CONCRETE NOTES (CONT.)

C25 2N12 DIAGONAL CORNER BARS 1200mm LONG ARE REQUIRED AT ALL RE-ENTRANT CORNERS IN SLABS AND WALLS.

C26 REINFORCEMENT SET-OUT DIMENSIONS ARE RELATED TO COLUMN CENTERLINES, QUARTER SPAN POINTS AND BEAM EDGES UNLESS NOTED OTHERWISE.

C27 REINFORCEMENT LENGTHS INDICATED ARE IN MILLIMETRES AND ARE PLAN LENGTH ONLY. TURN DOWNS AND CRANKS ARE NOT INCLUDED IN THE DIMENSION.

C28 BARS SHOWN STAGGERED ON PLAN SHALL BE PLACED ALTERNATELY.

C29 BARS SHALL BE EVENLY DISTRIBUTED OVER THE WIDTH OF THE STRIP UNLESS NOTED OTHERWISE.

C30 REINFORCEMENT SHALL NOT BE CUT OR WELDED ON SITE UNLESS APPROVED BY THE ENGINEER. BARS CONFLICTING WITH SMALL HOLES AND OTHER MINOR PENETRATIONS LESS THAN 300mm LONG MAY BE DISPLACED LATERALLY. SITE BENDING OF DEFORMED REINFORCING BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS.

C31 SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS, AND 50% OF BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS, EXCEPT WHERE BARS EXTEND MORE THEN 500mm BEYOND THE FACE OF A SUPPORT.

C32 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600(2009) -CLAUSE 13.2 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

C33 BUNDLED BARS SHALL BE TIED TOGETHER AT 40 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE TIE WIRE.

C34 CLOSED FITMENTS U.N.O. SHALL HAVE CORNER SPLICES THUS:  135° HOOKS

C35 FLOOR SLABS ON GROUND SHALL BE POURED IN ALTERNATE PANELS BETWEEN JOINTS.

C36 FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3610. THE DESIGN, CERTIFICATION, CONSTRUCTION, INSPECTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO PLACEMENT OF CONCRETE THE FORMWORK SUB-CONTRACTOR SHALL HAVE THE FORMWORK INSPECTED BY THE FORMWORK DESIGN ENGINEER AND SUPPLY THE PROJECT DESIGN ENGINEER WITH A WRITTEN CERTIFICATION THAT THE FORMWORK COMPLIES WITH THE REQUIREMENTS AS SET OUT IN CLAUSE 5.4.1.7 OF AS3610.

C37 PROVIDE UPWARD CAMBER TO FORMWORK OF REINFORCED CONCRETE CANTILEVERS OF L/120, WHERE L IS THE PROJECTION BEYOND COLUMN OR WALL FACE, AND TO FORMWORK SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB AND BEAM DEPTHS AS SHOWN.

C38 THE CLASS AND COLOUR OF THE CONCRETE SURFACE FINISH SHALL BE AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS AND/OR THE SPECIFICATION. APPROVAL OF THE CONCRETE MIX DOES NOT ABSOLVE THE CONTRACTOR OF THE NEED TO COMPLY WITH THE REQUIRED CONCRETE COLOUR REQUIREMENTS.

C39 EITHER BACKPROPPING OR AN UNDISTURBED SUPPORT SYSTEM OF FORMWORK IS TO BE ADOPTED. A RESHORING SYSTEM IS NOT TO BE USED. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. ALL BACKPROPPING SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

C40 THE FOLLOWING REQUIREMENTS SHALL BE INCORPORATED INTO THE FORMWORK DESIGN AND/OR ALLOWED FOR BY THE FORMWORK SUB-CONTRACTOR AS APPROPRIATE:-

(a) MINIMUM FORMWORK STRIPPING TIMES ARE TO BE AS FOLLOWS:-

(i) VERTICAL SURFACES MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm HAS REACHED 22 MPa OR A MINIMUM OF 6 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

(ii) SOFFITS OF BEAMS AND SLABS MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm HAS REACHED 5.0 MPa OR A MINIMUM OF 2 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

(iii) REMOVAL OF FORMWORK SUPPORT (PROPS) TO BEAM AND SLAB SOFFITS MAY BE UNDERTAKEN WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE fcm HAS REACHED 28 MPa. OR A MINIMUM OF 18 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

(b) A MINIMUM OF THREE 3 LEVELS OF FORMWORK &/OR BACKPROP SUPPORTS ARE REQUIRED, BASED UPON A 6 DAY CYCLE TIME AND PROVIDE THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.

(c) HORIZONTAL LOADS ON FORMWORK ARE TO BE RESISTED BY THE FORMWORK BRACING. STRUTTING OF THE FORMWORK FROM THE PERMANENT STRUCTURE TO RESIST HORIZONTAL LOADS IS NOT PERMITTED.

C41 THE BUILDER SHALL COORDINATE WITH ALL TRADES TO ENSURE THAT PROVISION IS MADE FOR ALL NECESSARY REBATES OR OPENINGS IN THE CONCRETE, AND CASTING IN OF CONDUITS, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS.

C42 THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY AS3600 BUT NOT LESS THAN THREE DIAMETERS HORIZONTALLY FOR HORIZONTAL CONDUITS, ETC. IN SLABS, WALLS, AND FOOTINGS AND NOT LESS THAN ONE DIAMETER FOR ALL OTHER CONDUITS, ETC.

C43 THE STRUCTURAL ENGINEER SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR NOTICE FOR ALL REQUIRED INSPECTIONS, INCLUDING AT THE PLACEMENT OF THE POLYTHENE MEMBRANE AND PRIOR TO THE PLACEMENT OF CONCRETE.

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title CONSTRUCTION NOTES (SHEET 1 OF 2)

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	Checked A.J.P.	Scale 1:100 @ A3 U.N.O.	
	Job No 19PE1838	Drawing No S0101	Issue B

MASONRY NOTES

M1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700.

M2 THE DESIGN STRENGTH OF MASONRY SHALL BE IN ACCORDANCE WITH THE MASONRY SCHEDULE SHOWN ON THIS DRAWING. MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

MASONRY SCHEDULE

ELEMENT	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (MPa)	MORTAR MIX CEMENT : LIME : SAND
INFILL BLOCK WALLS	20	1 : 1 : 6
LOAD BEARING BLOCK WALLS	20	1 : 0.25 : 3
INFILL BRICK WALLS	40	1 : 1 : 6
LOAD BEARING BRICK WALLS	40	1 : 0.25 : 3

M3 NO CHASES SHALL BE CUT INTO LOAD-BEARING MASONRY WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

M4 MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL APPROVAL OF THE STRUCTURAL ENGINEER.

M5 MORTAR JOINTS SHALL BE 10mm THICK AND HAVE A MAXIMUM TOOLED DEPTH OF 3mm UNLESS NOTED OTHERWISE.

M6 CLEANOUT HOLES SHALL BE PROVIDED AT THE BASE OF ALL CORES OR CAVITIES WHICH ARE TO BE GROUTED OR FILLED

M7 GROUT FOR BOND BEAMS, CORE FILLING OR CAVITY FILLING SHALL COMPRISE OF 1 PART CEMENT, 0.25 PART LIME, 3 PARTS 10mm AGGREGATE UNLESS NOTED OTHERWISE ON THE DRAWINGS. MAXIMUM SLUMP TO BE 230mm

M8 CORES AND CAVITIES SHALL BE FILLED IN 1000mm MAXIMUM LIFTS WHERE REQUIRED WITH A CONCRETE STRENGTH, f'c= 20 MPa.

M9 WALL TIES SHALL BE PROVIDED AT 600mm MAXIMUM CENTRES HORIZONTALLY AND VERTICALLY AND CONSIST OF 3.1mm DIA. STAINLESS STEEL WIRE UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATION.

M0 REINFORCING STEEL SHALL BE SECURELY FIXED IN POSITION BEFORE GROUTING.

M11 GROUT SHALL BE THOROUGHLY COMPACTED USING A PLAIN BAR.

M12 ALL MORTAR OBSTRUCTIONS IN CORES OR CAVITIES SHALL BE REMOVED PRIOR TO GROUTING. THIS MAY BE DONE USING A ROD FROM THE TOP OF THE WALL. ALL MORTAR THUS REMOVED SHALL BE CLEANED FROM THE BOTTOM OF THE WALL BEFORE THE CLEAN OUT HOLES ARE CLOSED FOR GROUTING.

M13 CONTROL JOINTS SHALL BE PLACED IN ALL MASONRY WALLS AT 4000mm MAX. CENTRES VERTICALLY AND 8000mm MAX. CENTRES HORIZONTALLY AT LOCATIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AT LOCATIONS LISTED BELOW:

(a) AT MAJOR CHANGES IN WALL HEIGHT
(b) AT CHANGES IN WALL THICKNESS OTHER THAN FOR PIERS AND BUTTRESSES
(c) AT CONTROL JOINTS IN FOOTING, FLOOR SLABS AND ROOF SLABS.
(d) AT CHASES AND RECESSES FOR PIPES, COLUMNS, FIXTURES ETC.
(e) AT ONE OR BOTH SIDES OF WALL OPENING
(f) NEAR WALL INTERSECTIONS
(g) NEAR RETURN ANGLES IN "L", "T" AND "U' SHAPED STRUCTURES. THE BUILDER SHALL SUBMIT TO THE ENGINEER DRAWINGS OF PROPOSED CONTROL JOINT LOCATIONS AND LAYOUT FOR REVIEW AND COMMENT PRIOR TO START OF LAYING BLOCKS/BRICKS.

M14 REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE ABOVE AND THE FOLLOWING, UNLESS NOTED OTHERWISE:

(a) BLOCKS SHALL BE STRENGTH GRADE 20
(b) MORTAR SHALL COMPRISE 1 CEMENT : 0.25 LIME : 2 SAND
(c) PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES
(d) CORE FILLING GROUT TO BE f'c = 20 MPa, 10mm AGGREGATE, 230 SLUMP IN LIFTS OF NOT MORE THAN 1200mm
(e) 65mm COVER TO REINFORCEMENT FROM THE OUTSIDE OF THE BLOCKWORK

M15 FOR AREAS OF THE STRUCTURAL FLOOR SYSTEM WHICH SUPPORT NON-LOADBEARING MASONRY WALL PARTITIONS OR OTHER SENSITIVE ATTACHMENTS AT THE INITIAL DESIGN, THE FLOOR HAS BEEN DESIGNED FOR NOT LESS THAN THE REQUIREMENTS OF AS 3600 TABLE 2.3.2, "WHERE PROVISION IS MADE TO MINIMISE THE EFFECT OF MOVEMENT" GENERIC JOINT DETAILS ARE INDICATED ON THESE DRAWINGS FOR INFORMATION, BUT IT IS THE ARCHITECT'S RESPONSIBILITY TO IDENTIFY JOINT LOCATIONS AND TIES WHERE APPROPRIATE ON ARCHITECTURAL DRAWING, AND TO PROVIDE DETAILS FOR NON-STANDARD ELEMENTS TO ACCOMMODATE ANTICIPATED MOVEMENTS.

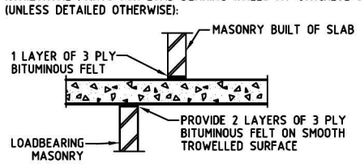
M16 OBSERVATION OF CONSTRUCTION OF NON-LOADING MASONRY WALLS/ PARTITIONS AND OTHER NON-LOADBEARING ELEMENT IS NOT INCLUDED IN THE STRUCTURAL ENGINEER'S SCOPE OF WORK.

M17 MASONRY IS NOT TO BE ERECTED OFF SUSPENDED WORK UNTIL FORMWORK AND FALSEWORK SYSTEMS PROVIDING SUPPORT HAVE BEEN REMOVED.

M18 ALL MASONRY IS TO BE FIXED TO ADJOINING CONCRETE AND/OR STEEL SUPPORTING MEMBERS BY MFA 3/3 MASONRY ANCHORS (OR EQUIV) AT 600 MAX. CENTRES VERTICALLY AND MFA 4/M MASONRY ANCHORS (OR EQUIV) AT 1000 MAX. CENTRES HORIZONTALLY UNLESS NOTED OTHERWISE ON THE DRAWINGS.

M19 MASONRY ANCHORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

M20 HORIZONTAL JOINTS FOR LOAD BEARING WALLS AT CONCRETE SLABS (UNLESS DETAILED OTHERWISE):



M21 WHERE WALLS ARE NON-LOAD BEARING AT EITHER HORIZONTAL OR VERTICAL FACES, THEY SHALL BE SEPARATED FROM THE CONCRETE BY 12mm THICK 'CANEITE' OR EXPANDED POLYSTYRENE U.N.O.

M22 A 300mm WIDE STRIP OF COARSE GRAINED MATERIAL IS TO BE PLACED BEHIND ALL RETAINING WALLS.

M23 NON-LOAD BEARING MASONRY WALLS ARE TO BE KEPT TO A MINIMUM OF 15mm CLEAR FROM SOFFIT OF BEAMS/SLABS OVER. IF THE WALL SERVES AS A FIRE SEPARATING WALLS, THEN THE 15mm GAP SHALL BE FILLED WITH AN APPROVED FIRE RATED FLEXIBLE SEALANT.

STRUCTURAL STEEL NOTES

S1 ALL MATERIALS, WORKMANSHIP, FABRICATION AND ERECTION SHALL COMPLY WITH THE REQUIREMENTS OF AS4100, AS1538, AS1554.

S2 UNLESS SHOWN OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS3679 GRADE 300. ALL STEEL HOLLOW SECTIONS SHALL BE GRADE 350 IN ACCORDANCE WITH AS1163.
ALL PRESSED METAL PURLINS AND GIRTS SHALL BE GRADE 450 STEEL IN ACCORDANCE WITH AS1538.

S3 UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

(i) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD ALL ROUND.

(ii) ALL BOLTS SHALL BE M20-8.8/S, WITH A MINIMUM OF 2 BOLTS PER CONNECTION.

(iii) ALL GUSSET AND CLEAT PLATES SHALL BE 10mm THICK.

(iv) ALL CAP PLATES SHALL BE 12mm THICK.

(v) ALL BASE PLATES SHALL BE 20mm THICK.

S4 PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS WITH "BREATHER" HOLES IF MEMBERS ARE TO BE HOT DIP GALVANISED.

S5 BOLT DESIGNATION:

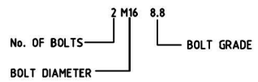
4. 6/S REFERS TO COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO AS1111 TIGHTENED TO A SNUG TIGHT CONDITION.

8.8/S REFERS TO HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 TIGHTENED TO A SNUG TIGHT CONDITION.

8.8/TB REFERS TO HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A BEARING JOINT.

8.8/TF REFERS TO HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A FRICTION JOINT.

TYPICAL BOLT NOTATION SHALL BE AS FOLLOWS:



S6 HIGH STRENGTH BOLTED JOINTS SHALL BE IN ACCORDANCE WITH AS4100. THE SPECIFIED BOLT TENSION SHALL BE OBTAINED BY THE USE OF THE "PART TURN" METHOD OF TIGHTENING.

S7 BOLTS HOLES IN STEEL TO STEEL AND STEEL TO CONCRETE CONNECTIONS SHALL BE BOLT DIAMETER PLUS 2mm AND PLUS 4mm RESPECTIVELY. FOR BASE PLATES ALLOW BOLT DIAMETER PLUS 6mm.

S8 AFTER TIGHTENING, EXPOSED FACES OF NUTS, BOLTS AND WASHERS SHALL BE PREPARED AND COATED AS SPECIFIED OR AS FOR THE ADJACENT WORK.

S9 ALL HOLDING DOWN BOLTS SHALL BE EITHER COMMERCIAL BOLTS OR BE MADE FROM MILD STEEL BARS WITH A MINIMUM fsy OF 230 MPa.

S10 ALL MEMBERS SHALL BE SUPPLIED IN SINGLE LENGTHS. SPLICES SHALL ONLY BE PERMITTED IN LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS.

S11 ALL EXPOSED STEELWORK, INCLUDING BOLTS, NUTS AND WASHERS E.T.C. SHALL BE HOT DIPPED GALVANISED.

S12 ALL WELDS SHALL BE SP (SPECIAL PURPOSE) IN ACCORDANCE WITH AS1554. ALL BUTT WELDS SHALL BE FULL STRENGTH COMPLETE PENETRATION WELDS. ALL ELECTRODES SHALL BE CLASS E48.

S13 SUBSTITUTIONS FOR STEEL SECTIONS SHOWN ON DRAWINGS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

S14 ALL STEELWORK BELOW GROUND OR FINISHED SURFACE LEVEL IS TO BE ENCASED IN 75mm MIN. CONCRETE ALL ROUND.

S15 CONCRETE ENCASED STRUCTURAL STEELWORK TO BE ENCLOSED BY SL41 MESH PLACED CENTRALLY WITHIN ENCASEMENT. CONCRETE ENCASING TO BE 50mm MIN UNLESS NOTED OTHERWISE ON THE DRAWINGS. COVER TO MESH =20mm MIN., MAX. AGGREGATE SIZE = 10mm, CONCRETE f'c= 25 MPa.

S16 ALL STEELWORK, EXCEPT THAT WHICH IS TO BE CONCRETE ENCASED, FIRE SPRAYED OR CONTACT SURFACES OF FRICTION TYPE JOINTS, SHALL BE SURFACE CLEANED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATION.

S17 STEELWORK THAT IS CONCRETE ENCASED, FIRESPRAYED OR FACING SURFACES OF FRICTION TYPE JOINTS SHALL BE LEFT UNPAINTED AND FREE FROM SCALE.

S18 THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL, TIMBER AND OTHER ELEMENTS TO THE STEEL WHETHER OR NOT DETAILED ON THE STRUCTURAL DRAWINGS.

S19 STUDS ABUTTING COLUMNS SHALL BE GUN FIXED AT 300 MAX. CENTRES AND COLUMN FACES ABUTTING BRICKWORK SHALL HAVE APPROVED FRAME TIES GUN FIXED TO THEM AT 3 COURSE CENTRES FOR BUILDING INTO BED JOINTS.

S20 THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH SUPERVISION TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET. DETAILS OF ERECTION SEQUENCE SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW PRIOR TO OF ERECTION. THE APPROVED ERECTION SEQUENCE SHALL NOT BE VARIED DURING THE ERECTION PROCESS WITHOUT THE APPROVAL OF THE DESIGN ENGINEER. ALL STEELWORK SHALL BE SECURELY TEMPORARILY BRACED BY THE ERECTOR AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.

S21 COLUMNS AND MULLIONS SHALL HAVE THEIR BASE PLATES FULLY GROUTED IN ACCORDANCE WITH THE SPECIFICATIONS AFTER PLUMBING AND LEVELLING ON STEEL PACKERS.

S22 ALL RAFTERS AND BEAMS OVER 6000mm IN LENGTH SHALL BE CAMBERED 5mm FOR EVERY 2000mm OF LENGTH UNLESS NOTED OTHERWISE ON THE DRAWINGS.

S23 THREE SETS OF STEELWORK SHOP DETAIL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF ANY FABRICATION. THE REVIEW SHALL NOT COVER LAYOUT AND MEMBER DIMENSIONS. FABRICATION SHALL NOT COMMENCE UNTIL APPROVAL HAS BEEN RECEIVED.

S24 UNLESS SPECIFIED OTHERWISE, STEELWORK SHALL BE PREPARED TO CLASS 2.5 FINISH IN ACCORDANCE WITH AS1627. 4 AND GIVEN TWO (2) COATS OF ZINC PHOSPHATE TO A TOTAL DRY FILM THICKNESS OF 70 MICRONS.

S25 PROVIDE ADDITIONAL TRIMMERS NECESSARY TO SUPPORT THE EDGE OF THE ROOF SHEET, FLASHING AND GUTTERS WITH C100-10 OR SIMILAR PARTICULARLY AT OBLIQUELY TRIMMING CLADDING.

TIMBER NOTES

T1 ALL TIMBER MATERIALS, WORKMANSHIP AND PRACTICE SHALL BE IN ACCORDANCE WITH THE TIMBER ENGINEERING STANDARD AS 1720 AND THE TIMBER FRAMING STANDARD AS 1684. ALL LINTELS, BEAMS ETC. NECESSARY FOR THE PROPER SUPPORT OF ROOF FRAMING SHALL BE PROVIDED EITHER AS SHOWN ON THE DRAWINGS OR AS REQUIRED IN ACCORDANCE WITH AS 1684.

T2 ALL TIMBER SHALL BE IN ACCORDANCE WITH THE STRESS GRADE NOMINATED ON THE DRAWINGS AND SHALL BE FREE OF DEFECTS, SPLITS, ROT ETC.
THE ENGINEER RESERVES THE RIGHT TO REJECT UNSUITABLE TIMBER.

T3 UNLESS OTHERWISE NOTED, SOFTWOOD IS TO BE MINIMUM STRESS GRADE F7 AND HARDWOOD IS TO BE MINIMUM STRESS GRADE F14. SUBMIT SUPPLIERS CERTIFICATE AS TO STRESS GRADE OF TIMBER MEMBERS. ALL TIMBER SHALL BE BRANDED.

T4 ALL TIMBER MEMBERS SHALL BE SOLID AND OF THE SIZES INDICATED ON THE DRAWINGS AND SHALL BE STRESS GRADED AND LABELLED ACCORDINGLY. SPLICED OR LAMINATED TIMBER MAY BE USED ONLY WHERE APPROVED BY THE ENGINEER.

T5 MEMBERS INDICATED AS 'SD' (SEASON DRIED) SHALL HAVE A MOISTURE CONTENT LESS THAN 15%. TIMBER WITH A MOISTURE CONTENT GREATER THAN 15% SHALL NOT BE SUBSTITUTED FOR TIMBER INDICATED AS 'SD'.

T6 TIMBER TRUSSES:

(a) TIMBER TRUSSES SHALL BE PROPRIETARY TRUSSES DESIGNED AND MANUFACTURED USING PRESSED METAL CONNECTOR PLATES ("MITEK" OR SIMILAR). TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER FOR THE CONDITIONS LISTED BELOW, AND IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS NOTED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. THE BUILDER SHALL BE RESPONSIBLE FOR THE MANUFACTURE, SUPPLY AND ERECTION OF TIMBER TRUSSES, AND FOR ALL NECESSARY TEMPORARY WORKS TO ENSURE THAT THE TRUSSES ARE CORRECTLY LOCATED, SUPPORTED AND PLUMBED PRIOR TO THE FINAL CONNECTIONS BEING MADE.

(b) TRUSSES SHALL NOT BE CUT OR ALTERED IN ANY WAY, AND ARE TO BE SUPPORTED AT THE POINTS NOMINATED ON THE STRUCTURAL DRAWINGS.

(c) PRESSED METAL CONNECTOR PLATES SHALL BE INSTALLED ON BOTH SIDES OF THE TIMBER TRUSSES.

(d) WORKSHOP DRAWINGS SHOWING GIRDER TRUSSES AND PLATES ACCURATELY LOCATED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. REVIEW IS FOR MEMBER-SIZES AND APPLICATION OF DETAIL AND DOES NOT INCLUDE CHECKING OF DIMENSIONS.

(e) TRUSSES SHALL BE SLUNG FROM PANEL POINTS ONLY.

T7 ALL BOLTED TIMBER CONNECTIONS SHALL BE MADE WITH M16 BOLTS UNLESS NOTED OTHERWISE. BOLT HOLES SHALL BE DRILLED EXACT SIZE. MILD STEEL WASHERS SHALL BE PLACED UNDER THE HEAD AND NUT IN ACCORDANCE WITH THE TABLE BELOW:

WASHER SIZE:
50 x 50 x3mm - BOLTS UP TO M12
65 x 65 x 5mm - M16, M20 BOLTS
75 x 75 x 5mm - BOLTS GREATER THAN M20
ALL EXPOSED BOLTS AND FITTINGS SHALL BE HOT-DIP GALVANIZED.

T8 ALL BOLTS SHALL BE RE-TIGHTENED AT THE COMPLETION OF THE CONTRACT AND AGAIN AT THE END OF THE MAINTENANCE PERIOD. BOLTS WHICH ARE INACCESSIBLE AT THE COMPLETION OF THE STRUCTURAL WORKS SHALL BE RETIGHTENED IMMEDIATELY BEFORE BEING BUILT-IN.

T9 ALL TIMBER JOINTS AND NOTCHES ARE TO BE 100mm MINIMUM AWAY FROM LOOSE KNOTS, SEVERELY SLOPING GRAIN, GUM VEINS OR OTHER MINOR DEFECTS.

T10 THE STRUCTURAL DRAWINGS ARE DEEMED TO PROVIDE FOR ALL NECESSARY MAJOR STRUCTURAL TIMBER AND CONNECTIONS. MINOR NON-STRUCTURAL ITEMS SUCH AS TRIMMERS, CLEATS AND OTHER ITEMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED FOR BY THE CONTRACTOR IN HIS TENDER PRICE, AND DETAILED AT THE SHOP DRAWING STAGE IF REQUIRED.

BRICKWORK LINTEL SCHEDULE:

HEIGHT OF BRICKWORK ABOVE LINTEL.	CLEAR SPAN OF OPENING 1200	1500	1800	2100	2400	2700	3000
500	75x100x6 UA	75x100x6 UA	75x100x6 UA	75x100x6 UA	100x100x6 EA	100x100x6 EA	150x90x8 UA
1000	75x100x6 UA	75x100x6 UA	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA
1500	75x100x6 UA	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x100x10 UA
2000	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x90x8 UA	150x100x10 UA
2500	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x90x8 UA	
3000	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x100x10 UA	

FOR SPANS GREATER THAN 3000 CONSULT THE STRUCTURAL ENGINEER

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

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Sheet Title CONSTRUCTION NOTES (SHEET 2 OF 2)

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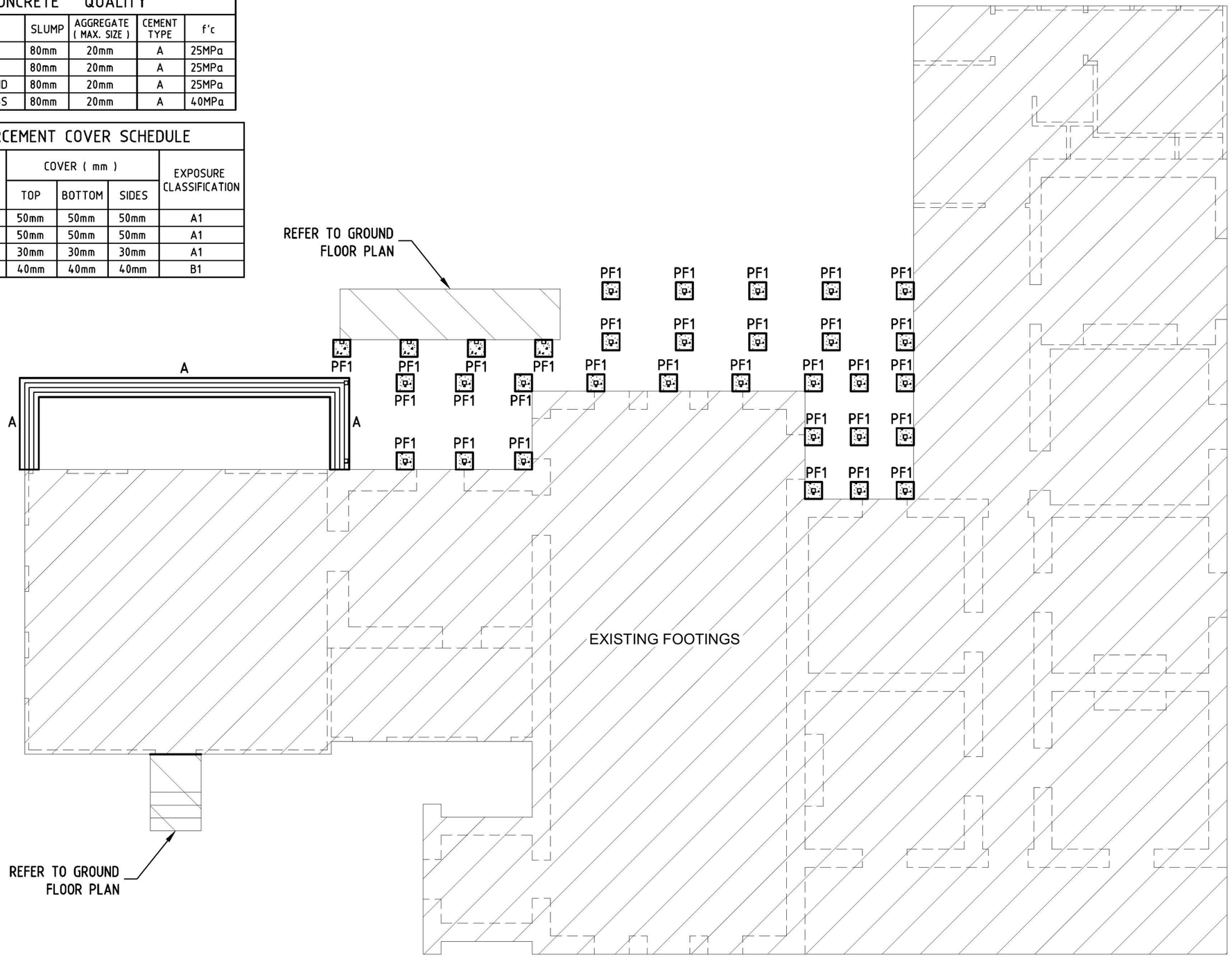
Mobile: 0418 264 265
E-mail: engineers@peleng.com.au

Approved
Anthony Pellicano
B.E (Hons) MIEAust

North	Designed	Drawn	Date
	A.J.P.	A.J.P.	13/03/19
	Checked: A.J.P.	Scale: 1:100 @ A3 U.N.O.	
	Job No: 19PE1838	Drawing No: S0102	Issue: B

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	f'c
PIERS	80mm	20mm	A	25MPa
FOOTINGS	80mm	20mm	A	25MPa
SLAB ON GROUND	80mm	20mm	A	25MPa
EXTERNAL SLABS	80mm	20mm	A	40MPa

REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER (mm)			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
PIERS	50mm	50mm	50mm	A1
FOOTINGS	50mm	50mm	50mm	A1
SLAB ON GROUND	30mm	30mm	30mm	A1
EXTERNAL SLABS	40mm	40mm	40mm	B1



FOOTING PLAN

SCALE 1:100

(REFER TO DRAWING S0202 FOR FOOTING DETAILS)

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title FOOTING PLAN

PelEng
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Structural & Civil Engineers

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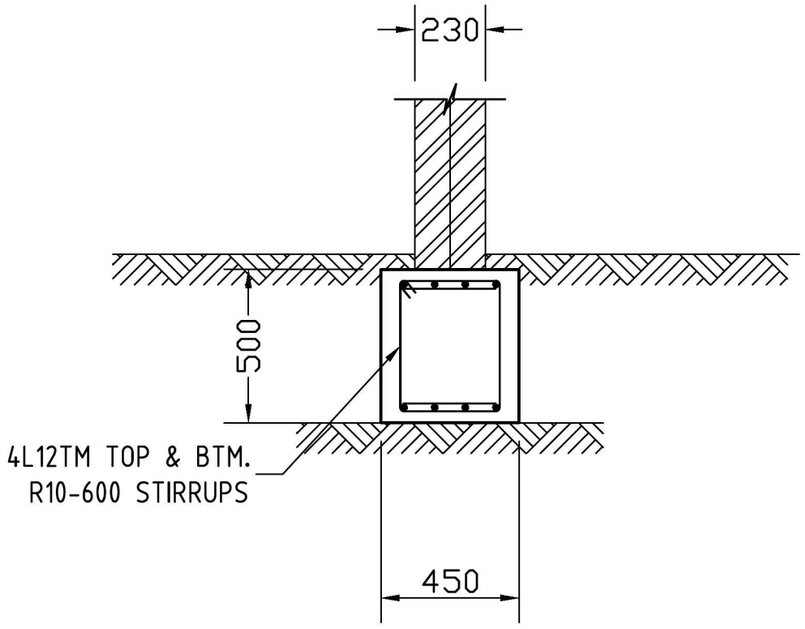
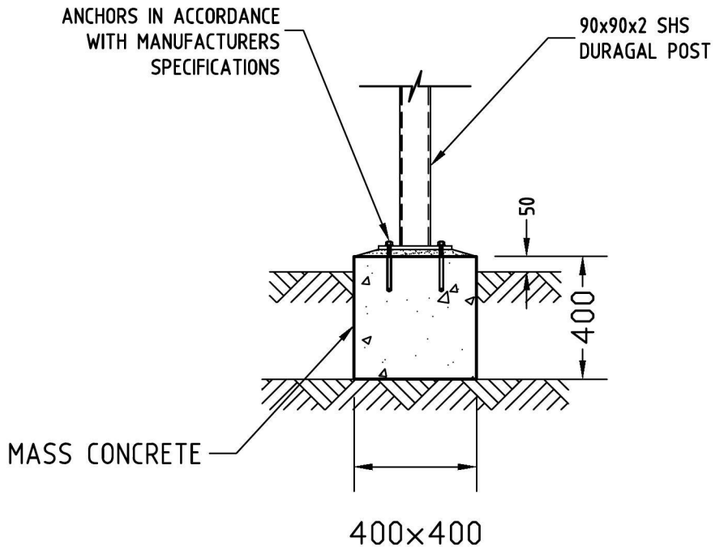
	A.J.P.	A.J.P.	13/03/19
	Checked: A.J.P.	Scale: 1:100 @ A3 U.N.O.	
	Job No: 19PE1838	Drawing No: S0201	Issue: B



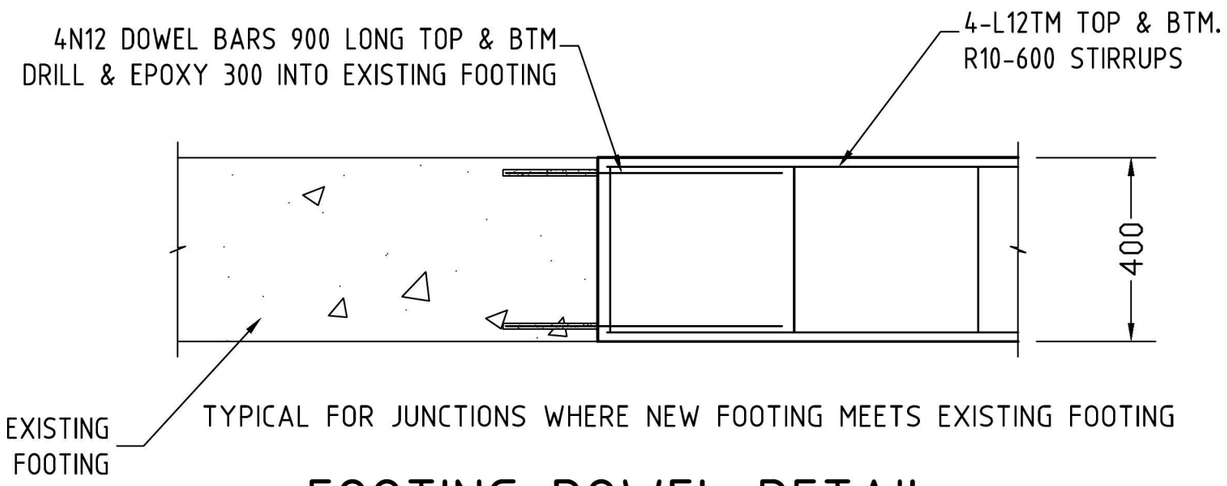
FOOTING TYPE 'A'

SCALE 1:20



PAD FOOTING 'PF1' DETAIL

SCALE 1:20



FOOTING DOWEL DETAIL

N.T.S.

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS
AND ADDITIONS AT
EMU PLAINS PUBLIC SCHOOL
EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title
FOOTING DETAILS

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North	Designed A.J.P.	Drawn A.J.P.	Date 13/03/19
	Checked A.J.P.	Scale 1:100 @ A3 U.N.O.	
	Job No 19PE1838	Drawing No S0202	Issue B

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	f'c
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REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER (mm)			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
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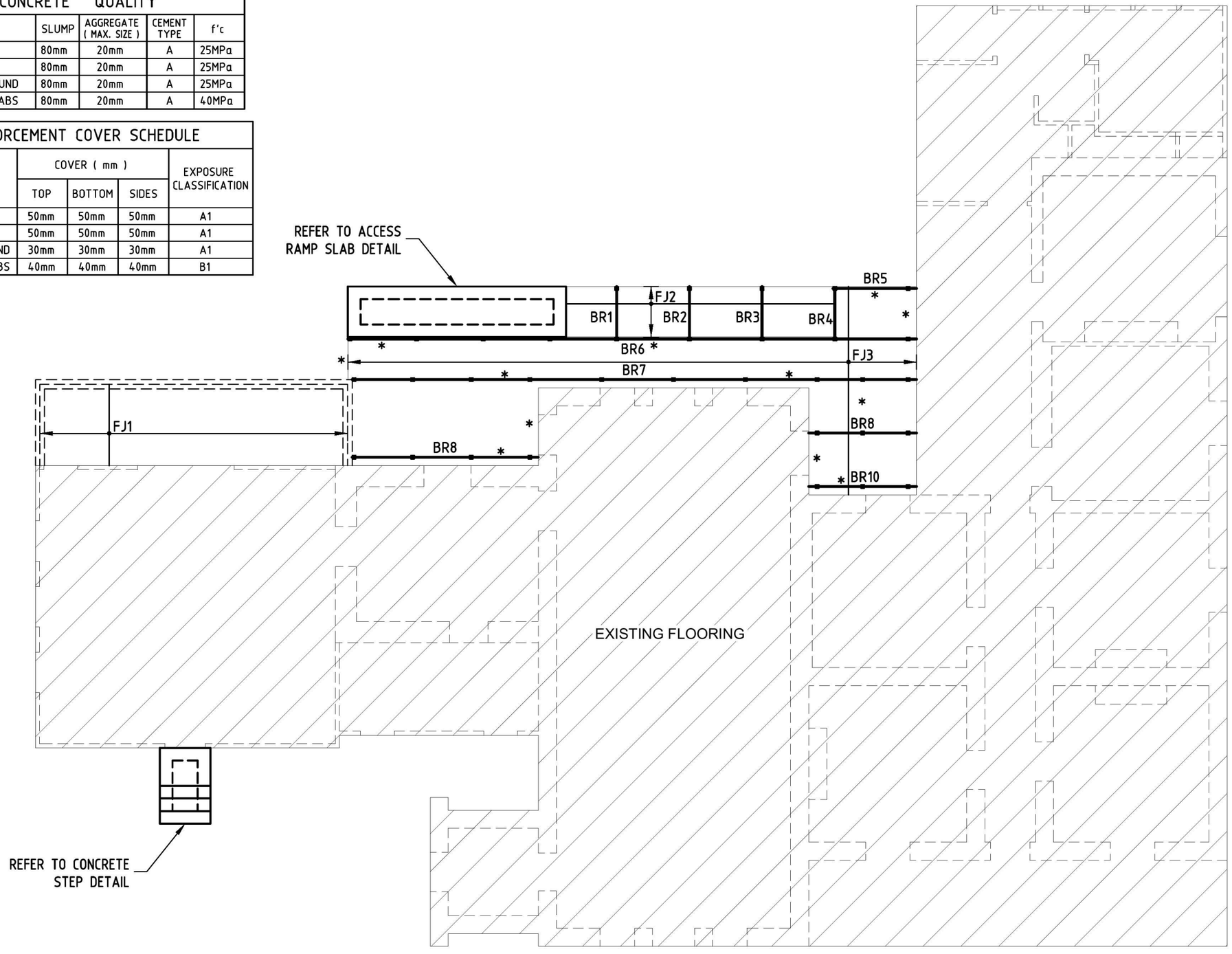
FOOTINGS	50mm	50mm	50mm	A1
SLAB ON GROUND	30mm	30mm	30mm	A1
EXTERNAL SLABS	40mm	40mm	40mm	B1



GROUND FLOOR PLAN

SCALE 1:100

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title GROUND FLOOR PLAN

PelEng
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	Checked: A.J.P.		Scale: 1:100 @ A3 U.N.O.
	Job No: 19PE1838	Drawing No: S0301	Issue: B

GROUND FLOOR MEMBER SCHEDULE

MARK	MEMBER	MATERIAL	SIZE	GRADE
FJ1	FLOOR JOIST	TIMBER	120x45 AT 450 CENTRES	KD PINE F7
FJ2	FLOOR JOIST	STEEL	75x50x1.6 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
FJ3	FLOOR JOIST	STEEL	75x50x1.6 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR1	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR2	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR3	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR4	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR5	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR6	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR7	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR8	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR9	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
BR10	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	C450L0
*	BRACING	STEEL	M12 THREADED ROD	250

GROUND FLOOR NOTES :

1. ALL TIMBER FRAMEWORK, BLOCKING, BRACING & HOLD DOWN REQUIREMENTS TO BE IN ACCORDANCE WITH AS1684 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
2. DURAGAL FLOOR SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
3. FLOOR JOISTS AND BEARERS DESIGNED TO SUPPORT FLOOR LOADS ONLY AND NOT DESIGNED TO SUPPORT ANY ROOF LOADS OR LOAD BEARING WALL LOADS.
4. DURAGAL FLOOR SYSTEM DESIGN BASED ON THE USE OF MAXI DECK BOARDS FLOORING MATERIAL WITH NO CEILING MATERIAL.
5. ALL FITTINGS, JOINERS, BRACING AND ACCESSORIES TO BE SUPPLIED BY DURAGAL.
6. ALL EXPOSED TIMBER TO BE H3 RATED OR DURABILITY CLASS 2.

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title GROUND FLOOR MEMBER SCHEDULE

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Approved — Anthony Pellicano B.E (Hons) MIEAust

North	Designed	Drawn	Date
	A.J.P.	A.J.P.	13/03/19
	Checked: A.J.P.	Scale: 1:100 @ A3 U.N.O.	
	Job No: 19PE1838	Drawing No: S0302	Issue: B

Revisions		
B	15/03/19	FOR CONSTRUCTION
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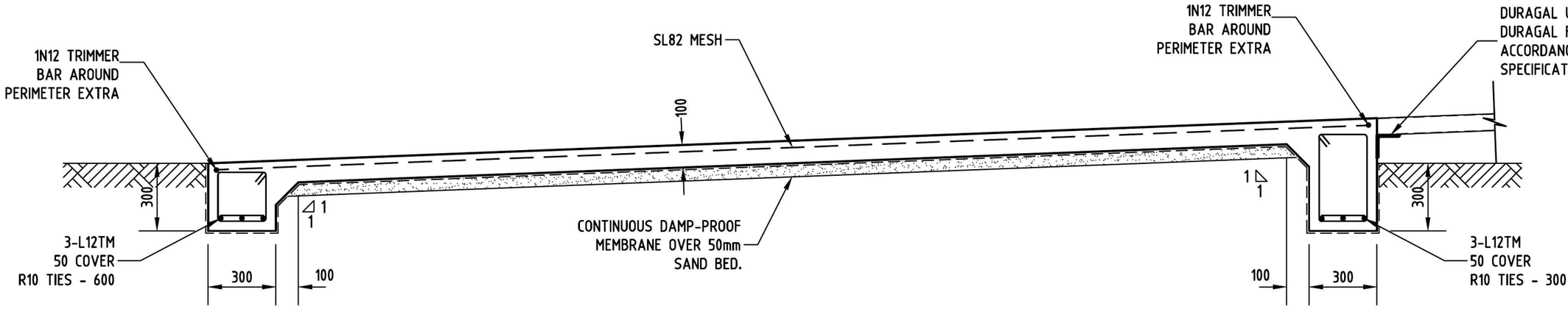
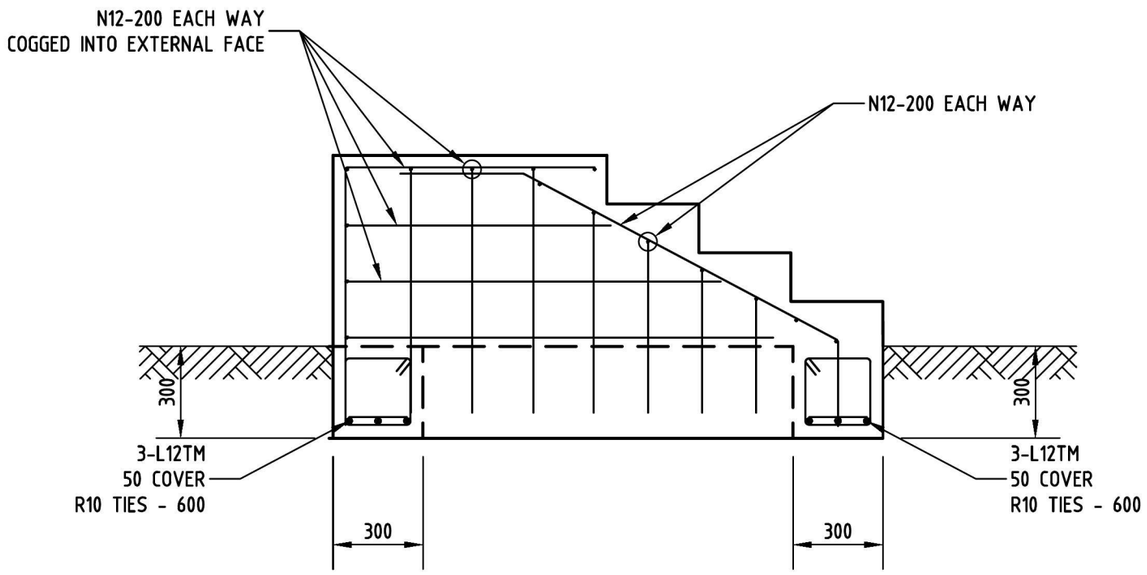


ACCESS RAMP SLAB DETAIL

SCALE 1:20



CONCRETE STEP DETAIL

SCALE 1:20

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title GROUND FLOOR DETAILS

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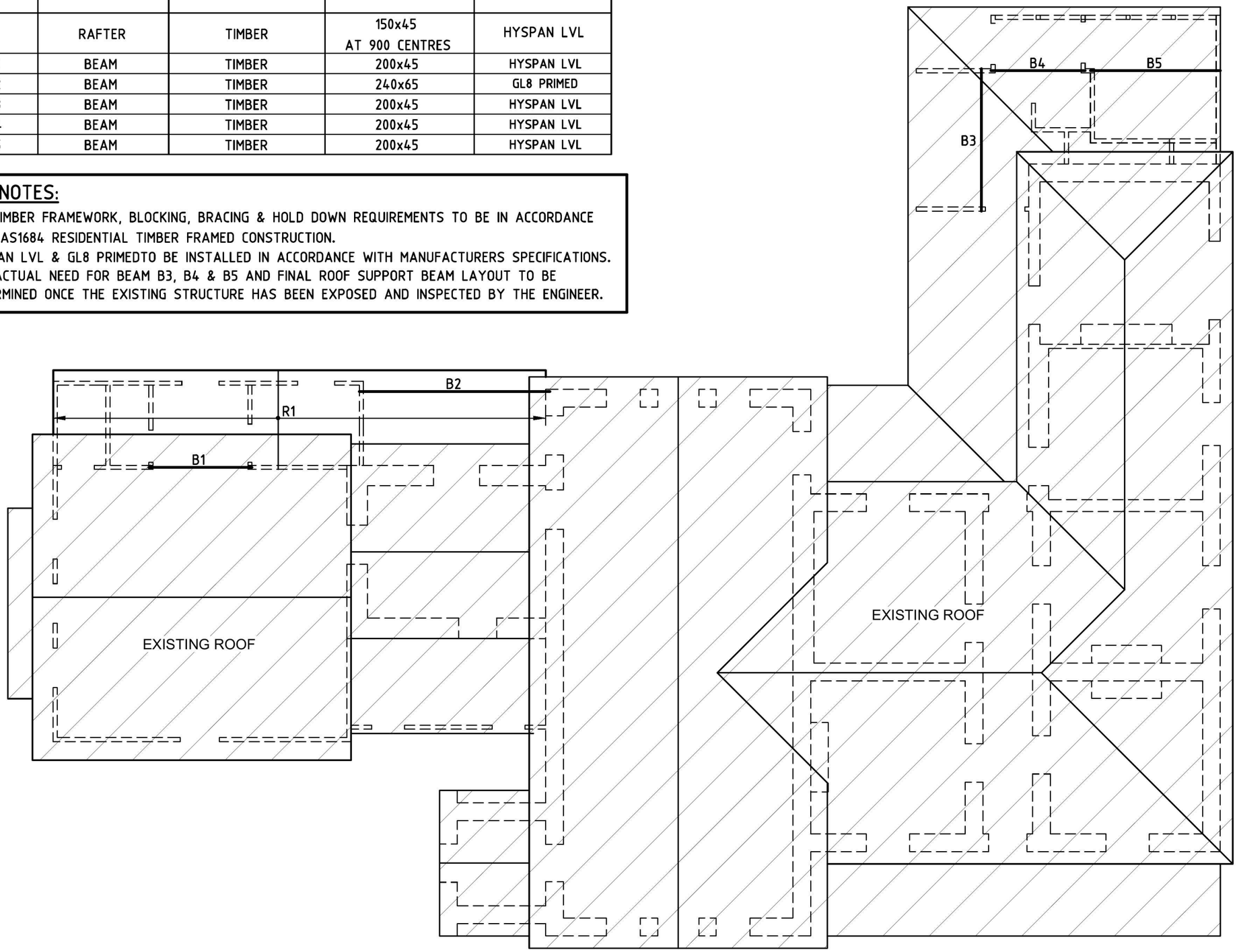
North	Designed A.J.P.	Drawn A.J.P.	Date 13/03/19
	Checked A.J.P.	Scale 1:100 @ A3 U.N.O.	
	Job No 19PE1838	Drawing No S0303	Issue B

ROOF MEMBER SCHEDULE

MARK	MEMBER	MATERIAL	SIZE	GRADE
R1	RAFTER	TIMBER	150x45 AT 900 CENTRES	HYSPAN LVL
B1	BEAM	TIMBER	200x45	HYSPAN LVL
B2	BEAM	TIMBER	240x65	GL8 PRIMED
B3	BEAM	TIMBER	200x45	HYSPAN LVL
B4	BEAM	TIMBER	200x45	HYSPAN LVL
B5	BEAM	TIMBER	200x45	HYSPAN LVL

ROOF NOTES:

1. ALL TIMBER FRAMEWORK, BLOCKING, BRACING & HOLD DOWN REQUIREMENTS TO BE IN ACCORDANCE WITH AS1684 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
2. HYSPAN LVL & GL8 PRIMEDTO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
3. THE ACTUAL NEED FOR BEAM B3, B4 & B5 AND FINAL ROOF SUPPORT BEAM LAYOUT TO BE DETERMINED ONCE THE EXISTING STRUCTURE HAS BEEN EXPOSED AND INSPECTED BY THE ENGINEER.



ROOF MARKING PLAN

SCALE 1:100

Revisions		
B	15/03/19	FOR CONSTRUCTION
A	13/03/19	PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT EMU PLAINS PUBLIC SCHOOL EMU PLAINS

Client PENRITH CITY COUNCIL

Sheet Title ROOF MARKING PLAN

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	A.J.P.	A.J.P.	13/03/19
	Checked: A.J.P.	Scale: 1:100 @ A3 U.N.O.	
	Job No: 19PE1838	Drawing No: S0401	Issue: B

ISSUE FOR TENDER - MARCH 2019

ARCHITECTURAL DRAWINGS

JUSTIN LONG DESIGN
P: 02 9516 5010
E: JUSTIN@JLADESIGN.COM.AU

COMPLIANCE NOTES

STANDARD OF WORK & REGULATIONS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH:
- BUILDING CODE OF AUSTRALIA 2016
- AUSTRALIAN STANDARDS
- CONDITIONS OF COUNCIL
- CONDITIONS OF SERVICE SUPPLY AUTHORITIES
- ALL RELEVANT AUSTRALIAN STANDARDS INCLUDING BUT NOT LIMITED TO THE STANDARDS LISTED BELOW.

DEMOLITION & RECYCLED MATERIAL
DEMOLITION IN ACCORDANCE WITH METRO WASTE BOARD GUIDE.

SITE MANAGEMENT
NO BUILDING ACTIVITIES ON COUNCIL LAND.
ESTABLISH SEDIMENT CONTROLS AS REQUIRED BY ALL AUTHORITIES.

EARTHWORKS & EXCAVATION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.1.1
- AS 2870

STORMWATER DISPOSAL
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.1.2 & BCA PART 3.5.2
- AS/NZ 3500.3.2

TERMITE PROTECTION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.1.3
- AS 3660.1

FOOTINGS, SLAB DESIGN & RETAINING WALLS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE ENGINEERS DRAWINGS, SPECIFICATIONS AND THE FOLLOWING:
- BCA PART 3.2
- AS 2870

MASONRY CONSTRUCTION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.3
- AS 3700

STRUCTURAL STEEL FRAMING
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE ENGINEERS DRAWINGS, SPECIFICATIONS AND THE FOLLOWING:
- BCA PART 3.4.2
- AS 1250 & AS 3623

TIMBER FRAMING
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
BCA PART 3.4.3
- AS 1684

ALL TIMBER IS TO BE FROM SUSTAINABLE SOURCES (PLANTATION &/OR RECYCLED TIMBERS) AS FOLLOWS:
- ALL FRAMING SHOULD BE IN PLANTATION RADIATA PINE OR NZ DOUGLAS FUR
- ALL STRUCTURAL TIMBER SHALL BE PLANTATION GROWN GLUE LAMINATED TIMBER
- ALL FLOORING SHALL BE FROM RECYCLED TIMBER OR BAMBOO T+G FLOORING

ROOF CLADDING
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.5.1
- AS 1562.1

GUTTERS & DOWNPIPES
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.5.2
- AS 3500.3.2

WALL CLADDING
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.5.3

EXTERNAL WINDOWS & DOORS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.5.4 & BCA PART 3.6
- AS 2047

INSTALLATION OF GLAZING
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.6
- AS 1288 OR AS 2047

VENTILATION OF EXHAUST FANS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 2.4 & BCA PART 3.8.5
- AS 1668.2

CONSTRUCTION OF ROOF, WALLS & FLOOR
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.5 & BCA PART 3.12

HOT WATER SUPPLY SYSTEM
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.12.5
- AS/NZ 3500.4 OR AS 3500.5

FIRE SEPARATION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.7.1

SMOKE ALARMS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.7.2
- AS 3786

BUILDING FABRIC THERMAL INSULATION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 2.3.1
- AS/NZ 4859.1
- BASIX COMPLIANCE

SPECIFICALLY THE INSULATION VALUES SHALL BE A MINIMUM TOTAL OF R3.0 FOR ALL ROOFS & CEILINGS & R1.5 FOR ALL WALLS

SOUND INSULATION
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.8.6

WATERPROOFING OF WET AREAS
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.8.1
- AS 3740

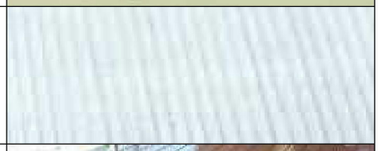
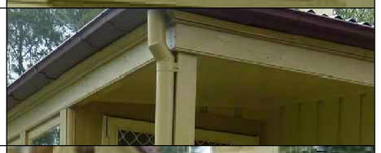
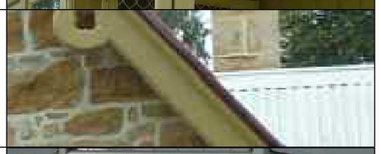
FACILITIES (HEALT & AMENITY)
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING:
- BCA PART 3.8.3
- AS 1668.2

HYDRAULICS
ALL TAPWARE & PLUMBING FIXTURES SHALL BE AAA RATED.
HOT WATER SERVICE PIPES SHALL BE PROVIDED WITH INSULATION IN ACCORDANCE WITH:
- BCA PART 3.12.1
- AS 3500

GENERAL NOTES

- REFER ALL QUERIES & DISCREPANCIES TO THE ARCHITECT. ALL MEASUREMENTS ARE IN MM UNLESS OTHERWISE NOTED.
- BUILDING WORK THAT INVOLVES RESIDENTIAL BUILDING WORK (WITHIN THE MEANING AND EXEMPTIONS PROVIDED IN THE HOME BUILDING ACT 1989) MUST NOT BE CARRIED OUT UNLESS THE PRINCIPAL CERTIFYING AUTHORITY FOR THE DEVELOPMENT TO WHICH THE WORK RELATES HAS GIVEN COUNCIL WRITTEN NOTICE OF THE FOLLOWING:
  - IN THE CASE OF WORK FOR WHICH A PRINCIPAL CONTRACTOR IS REQUIRED TO BE APPOINTED – THE NAME AND LICENCE NUMBER OF THE PRINCIPAL CONTRACTOR AND THE NAME OF THE INSURER BY WHICH THE WORK IS INSURED UNDER PART 6 OF THAT ACT
  - IN THE CASE OF WORK TO BE DONE BY AN OWNER–BUILDER – THE NAME OF THE OWNER–BUILDER AND IF THE OWNER–BUILDER IS REQUIRED TO HOLD AN OWNER–BUILDER PERMIT UNDER THAT ACT, THE NUMBER OF THE OWNER–BUILDER PERMIT.
- IF ARRANGEMENTS FOR DOING RESIDENTIAL BUILDING WORK ARE CHANGED WHILE THE WORK IS IN PROGRESS SO THAT THE INFORMATION SUBMITTED TO COUNCIL IS OUT OF DATE, FURTHER WORK MUST NOT BE CARRIED OUT UNLESS THE PRINCIPAL CERTIFYING AUTHORITY FOR THE DEVELOPMENT TO WHICH THE WORK RELATES (NOT BEING THE COUNCIL), HAS GIVEN THE COUNCIL WRITTEN NOTICE OF THE UPDATED INFORMATION.
- FOR THE PURPOSES OF SECTION 80A (11) OF THE ACT, IT IS A PRESCRIBED CONDITION OF DEVELOPMENT CONSENT THAT IF THE DEVELOPMENT INVOLVES AN EXCAVATION THAT EXTENDS BELOW THE LEVEL OF THE BASE OF THE FOOTINGS OF A BUILDING ON ADJOINING LAND, THE PERSON HAVING THE BENEFIT OF THE DEVELOPMENT CONSENT MUST, AT THE PERSON'S OWN EXPENSE:
- PROTECT AND SUPPORT THE ADJOINING PREMISES FROM POSSIBLE DAMAGE FROM THE EXCAVATION
- WHERE NECESSARY, UNDERPIN THE ADJOINING PREMISES TO PREVENT ANY SUCH DAMAGE

SCHEDULE OF FINISHES

AREA	FINISH	COMMENT	IMAGE
EXTERNAL CLADDING	SELECTED HORIZONTAL TIMBER CLADDING TO MATCH EXISTING	COLOUR: TO MATCH EXISTING OR PREVIOUSLY USED HERITAGE COLOUR UPON IDENTIFICATION ON SITE, TBC	
NEW ROOFING	SELECTED METAL ROOFING TO MATCH EXISTING	COLOUR: TO MATCH EXISTING	
EXTERNAL DECKING	INEX MAXIDECK 140 X 19MM DECKING BOARDS OR SIMILAR APPROVED FIXED TO JOISTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS	COLOUR: MERBAU	
NEW RAMP	RC SLAB & INEX MAXIDECK 140 X 19MM DECKING BOARDS OR SIMILAR APPROVED FIXED TO STEEL FRAME IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS		
NEW WINDOWS & DOORS	TIMBER FRAMED, PAINT FINISH	FRAME COLOUR: TO MATCH EXISTING	
GUTTERS & BARGE SCROLLS	PAINT FINISH	COLOUR: TO MATCH EXISTING	
BARGE BOARDS & TIMBER TRIMS	PAINT FINISH	COLOUR: TO MATCH EXISTING	
AC UNIT LOUVRE ENCLOSURE	ALUMINIUM LOUVRE ENCLOSURE	COLOUR: COLORBOND 'PAPERBARK' OR 'DEEP OCEAN' TBC	
NEW FENCE	NEW PICKET FENCE TO MATCH EXISTING	COLOUR: TO MATCH EXISTING OR PREVIOUSLY USED HERITAGE COLOUR UPON IDENTIFICATION ON SITE, TBC	
INTERNAL WALLS	NEW PAINT FINISH THROUGHOUT	DULUX WASH & WEAR ACRYLIC LOW SHEEN 2 COATS + UNDERCOAT. COLOURS 'ANTIQUE WHITE USA'	

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
for PENRITH CITY COUNCIL

Architectural:
justin long design
www.jladesign.com.au

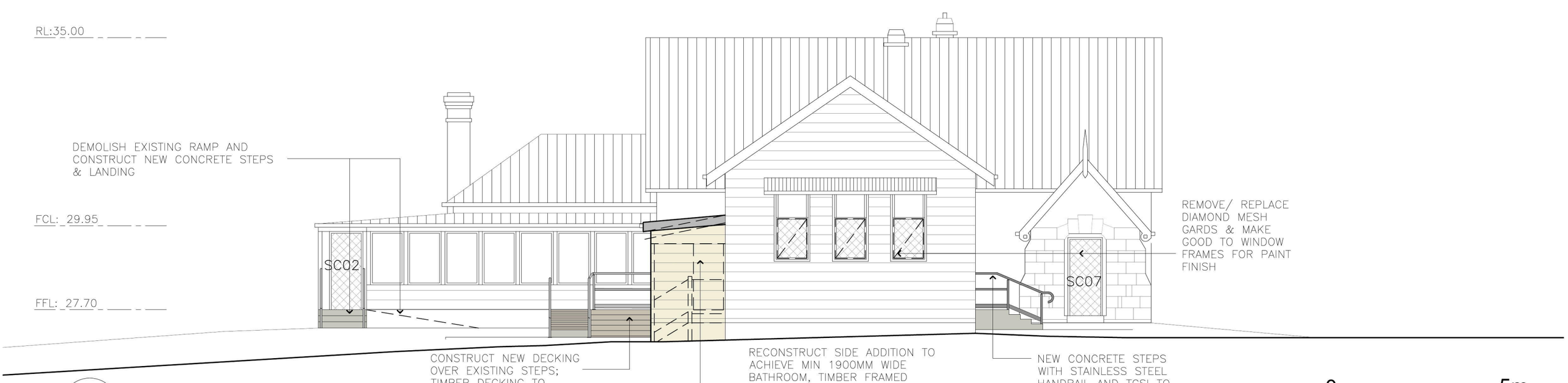
drawn	scale	date	issue	amend
FS	1:100	14.03.19	TD	–

drawing:
TITLE PAGE, GENERAL NOTES & SCHEDULE OF EXTERNAL FINISHES

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	25.02.19
DA	–	DA ISSUE	08.02.19

A00

01/03 NORTHERN ELEVATION
1:100



02/03 WESTERN ELEVATION
1:100

0 5m
1:100 @ A3

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
justin long design
www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1:100	14.03.19	TD	–

drawing: PROPOSED ELEVATIONS

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	25.02.19
DA	–	DA ISSUE	08.02.19

A03

01/04 SOUTHERN ELEVATION

1:100

02/04 EASTERN ELEVATION

1:100

0 5m

1:100 @ A3

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

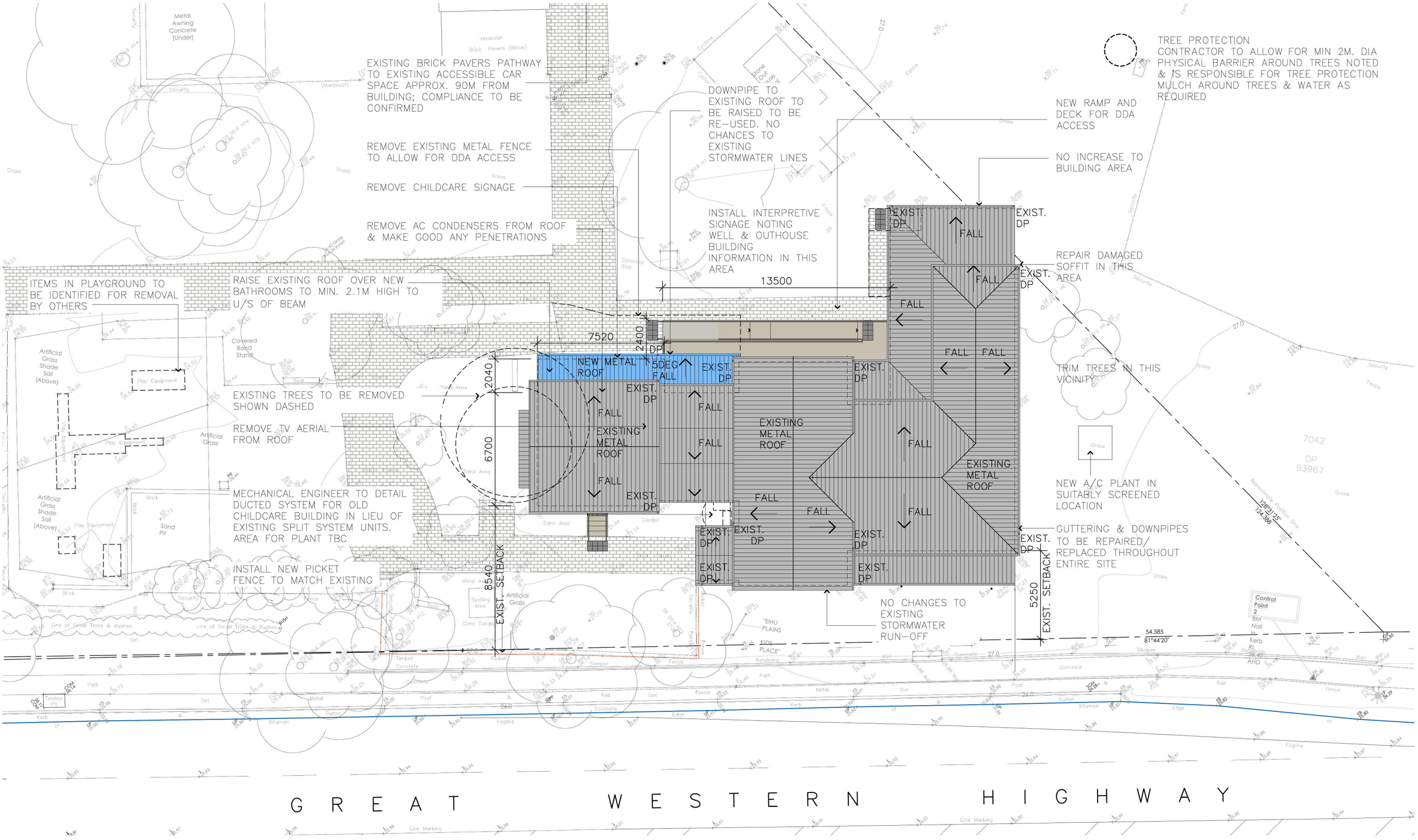
Architectural:
justin long design
www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1:100	14.03.19	TD	–

drawing: PROPOSED ELEVATIONS

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	25.02.19
DA	–	DA ISSUE	08.02.19

A04



01/07 PROPOSED SITE, ROOF & CONCEPT DRAINAGE PLAN

1:200

0 10m

1:200 @ A3

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
justin long design
www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1:200	01.03.19	TD	–

drawing: PROPOSED SITE PLAN

issue		amendment	date
TD	–	TD ISSUE	01.03.19
P	–	PRELIM. TD ISSUE	25.02.19
DA	–	DA ISSUE	23.01.19

A07

DOOR & WINDOW NOTES

- ALL DOORS & WINDOWS ARE VIEWED FROM OUTSIDE
- DIMENSIONS SHOWN ARE ACTUAL FRAME SIZES, CONFIRM DIMENSIONS ON SITE
- ALL GLAZING TO BE IN ACCORDANCE WITH A.S 1288–1994: GLASS INSTALLATION CODE & THE BCA
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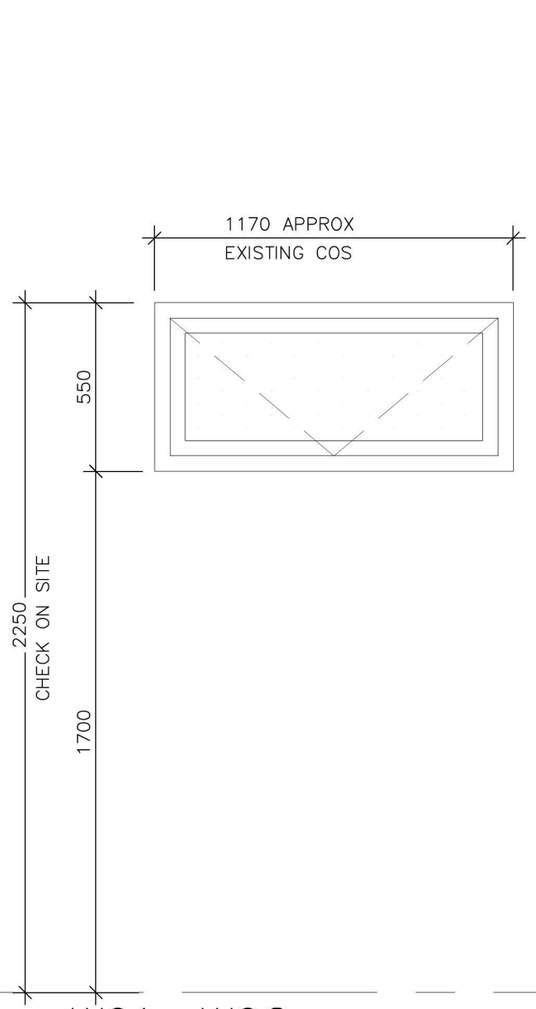
- ALL TIMBER FRAMED DOORS & WINDOWS TO BE WESTERN RED CEDAR & PRIMED FOR PAINT FINISH
- NB: NEW TIMBER DOORS, PORTION OF STILES, ETC, INCLUDING MOULDS TO MATCH EXISTING DOORS

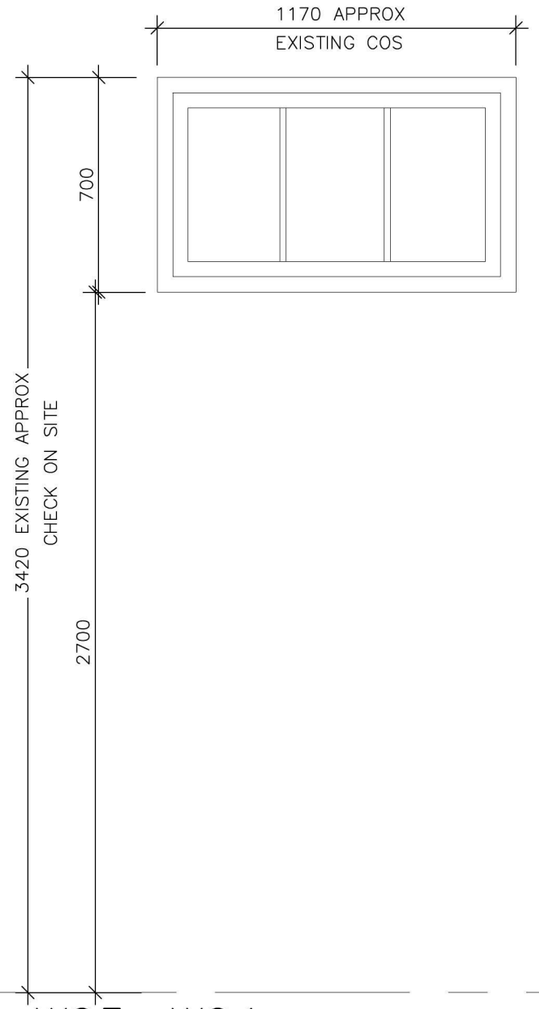
HARDWARE

- REFER TO DOOR HARDWARE SCHEDULE FOR ALL DOOR HARDWARE



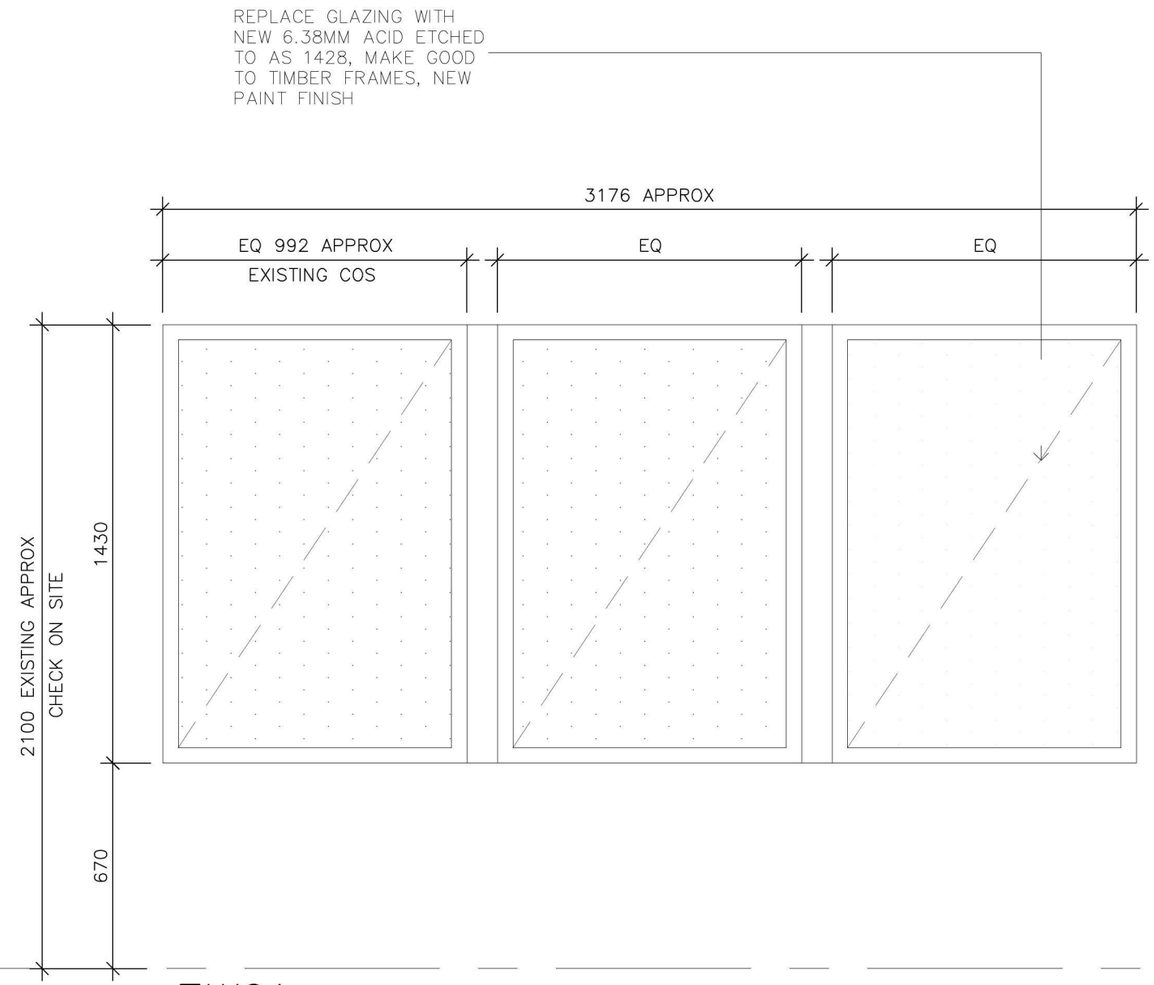
W01, W02

TIMBER FRAMED AWNING WINDOW
WITH LOCK, PAINT FINISH
ACID ETCHED 6.38MM SAFETY
LAMINATED GLASS TO AS.1288



W03, W04

TIMBER FRAMED FIXED WINDOW,
PAINT FINISH
CLEAR 6.38MM SAFETY LAMINATED
GLASS TO AS.1288



EW01

REPLACE GLAZING TO EXISTING
FRAMES WITH ACID ETCHED
6.38MM SAFETY LAMINATED GLASS
TO AS.1288

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

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for PENRITH CITY COUNCIL

Architectural:
justin long design
www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1: 20	14.03.19	TD	–

drawing: WINDOWS & DOORS SCHEDULE

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A09

DOOR & WINDOW NOTES

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HARDWARE

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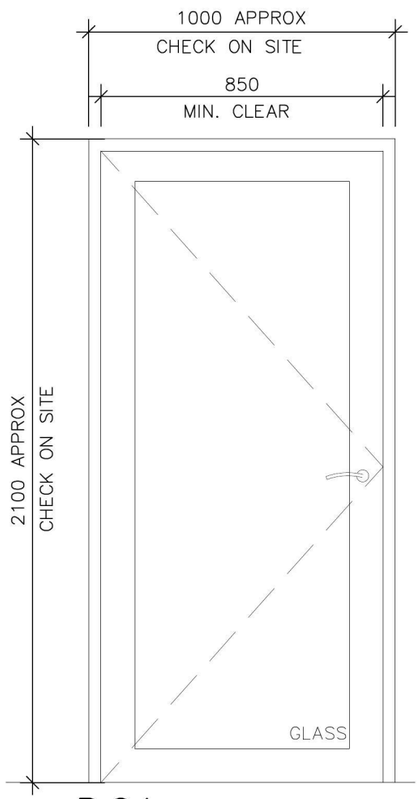
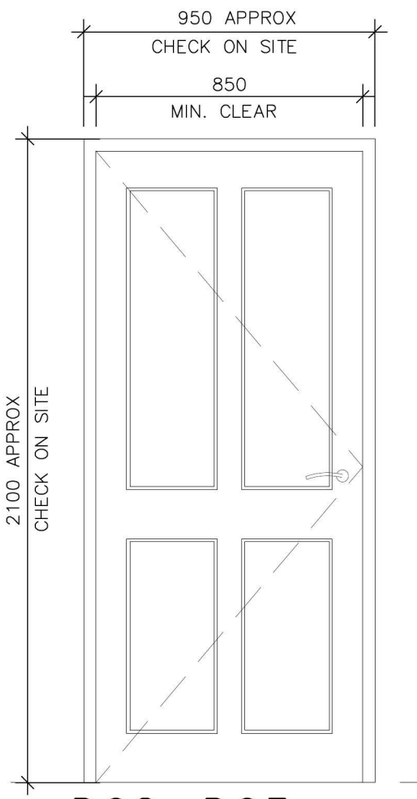


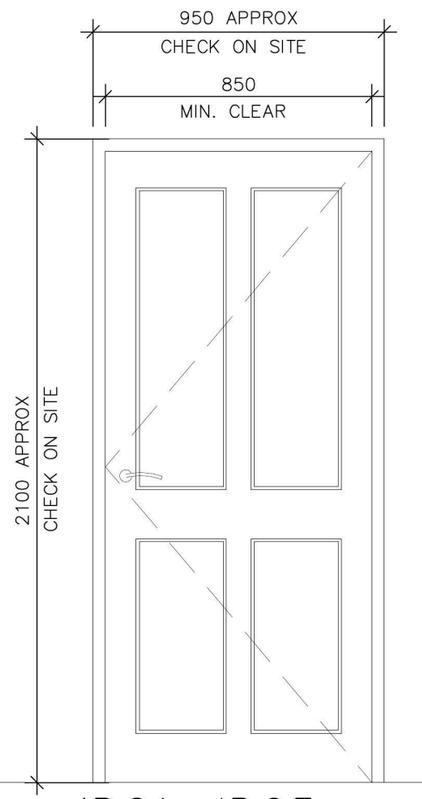
D01

TIMBER FRAMED HINGE DOOR,
PAINT FINISH
CLEAR 6.38MM SAFETY LAMINATED
GLASS TO AS.1288



D02, D03

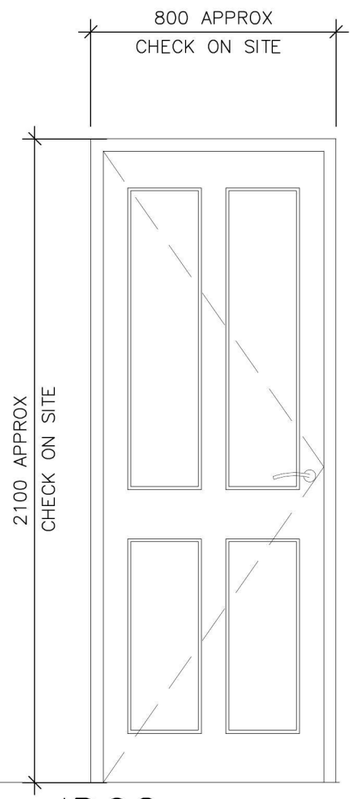
4 PANEL EXTERNAL QUALITY DOOR



ID01, ID05

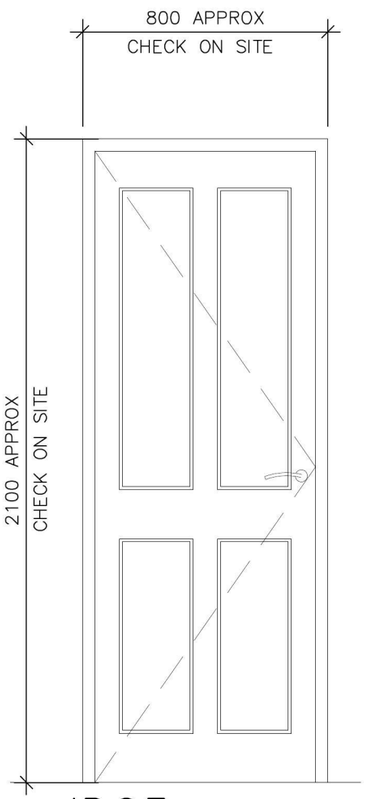
4 PANEL TIMBER DOOR
LEVER HANDLE, PRIVACY SNIB
WITH EMERGENCY RELEASE &
INDICATOR BOLTS
RETRACTABLE DOOR STOP TO
AS 1428.1

NB: ID01 SWINGS RHS
ID05 SWINGS LHS



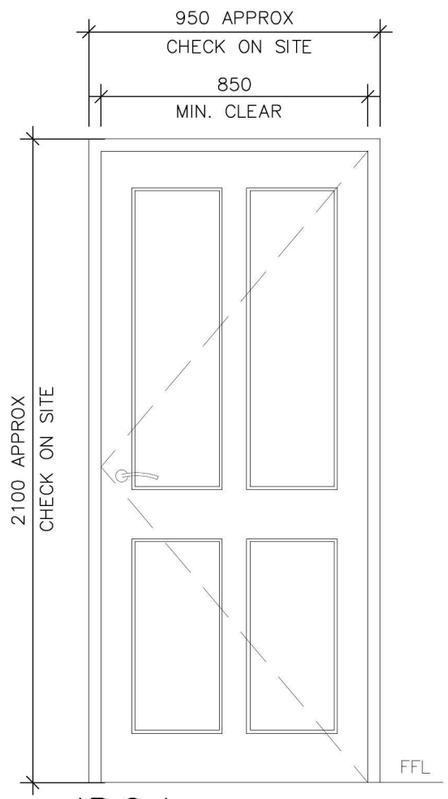
ID02

4 PANEL TIMBER DOOR
LEVER HANDLE, PRIVACY SNIB
WITH EMERGENCY RELEASE &
INDICATOR BOLTS
RETRACTABLE DOOR STOP



ID03

4 PANEL TIMBER DOOR



ID04

4 PANEL TIMBER DOOR

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
justin long design
www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1: 20	14.03.19	TD	–

drawing:
WINDOWS & DOORS SCHEDULE

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A10

DOOR & WINDOW NOTES

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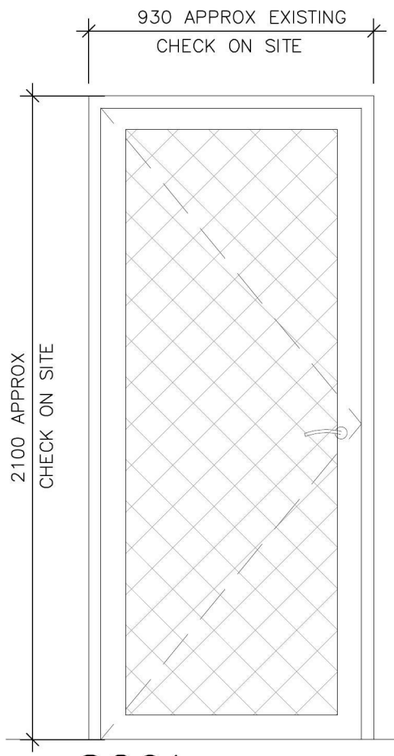
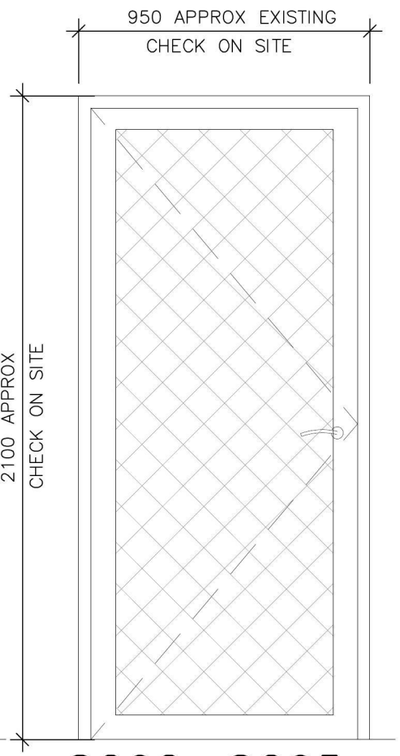


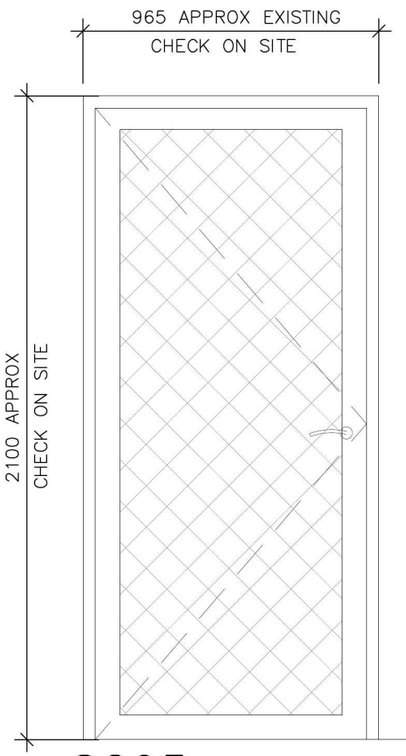
SC01

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC



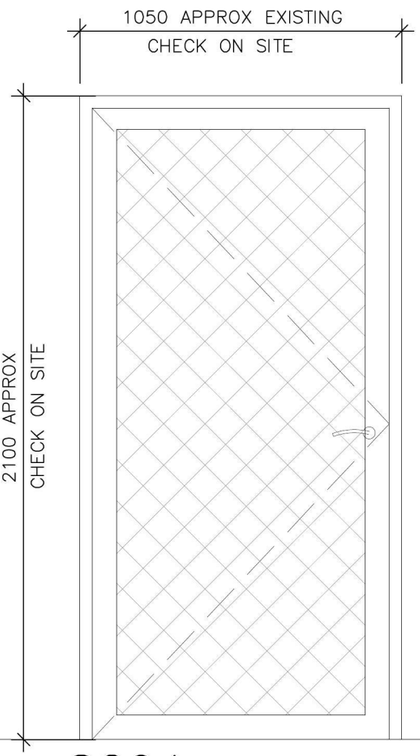
SC02, SC05

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC



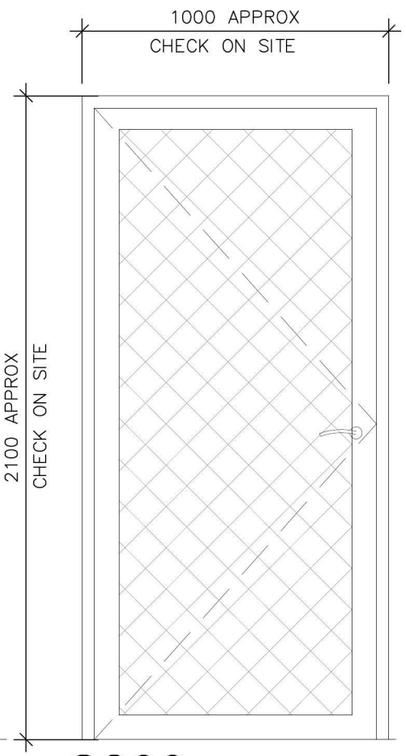
SC03

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC



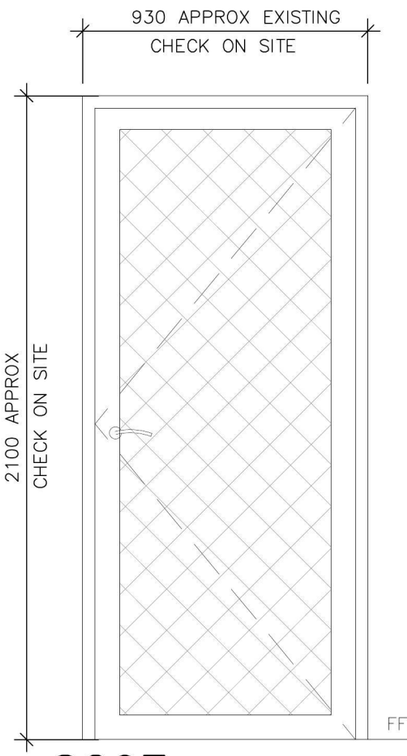
SC04

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC



SC06

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC



SC07

CRIMSAFE SECURITY DOOR WITH BLACK MESH, FRAME COLOUR TBC

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

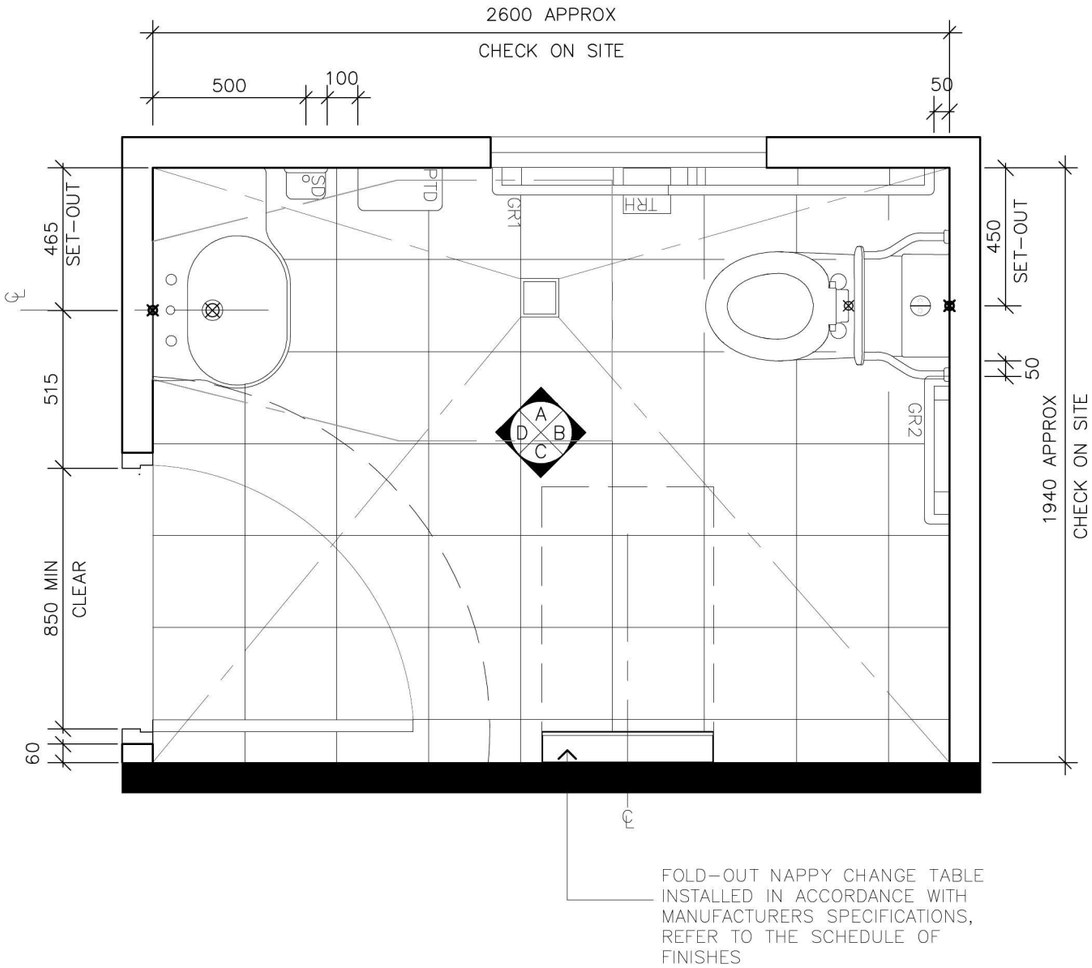
Architectural:
justin long design
www.jladesign.com.au

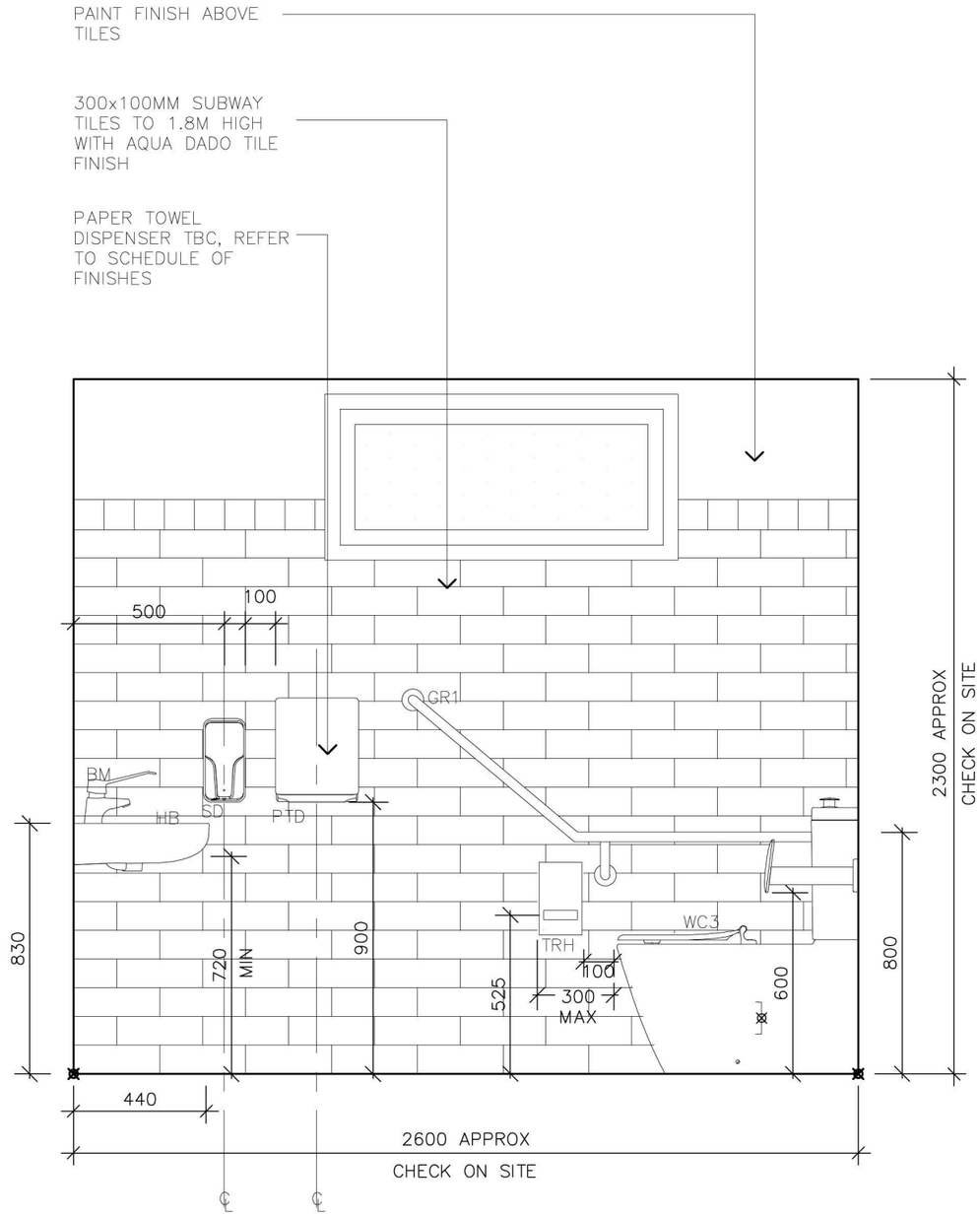
drawn	scale	date	issue	amend
FS	1: 20	14.03.19	TD	–

drawing: SECURITY DOORS SCHEDULE

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A10A





01 A11 UNISEX/ ACCESS WC PLAN DETAIL

1:20

2A A11 UNISEX/ ACCESS WC ELEVATION DETAIL

1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
justin long design
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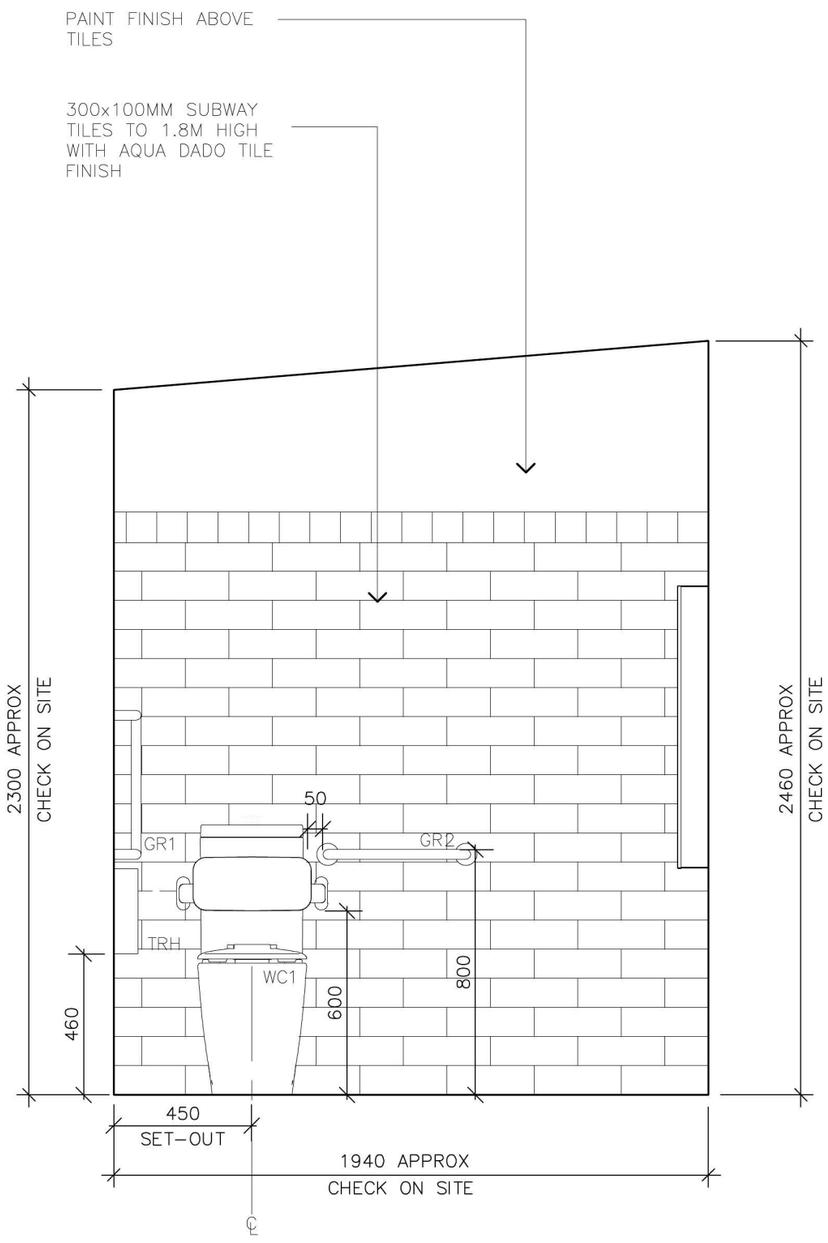
drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

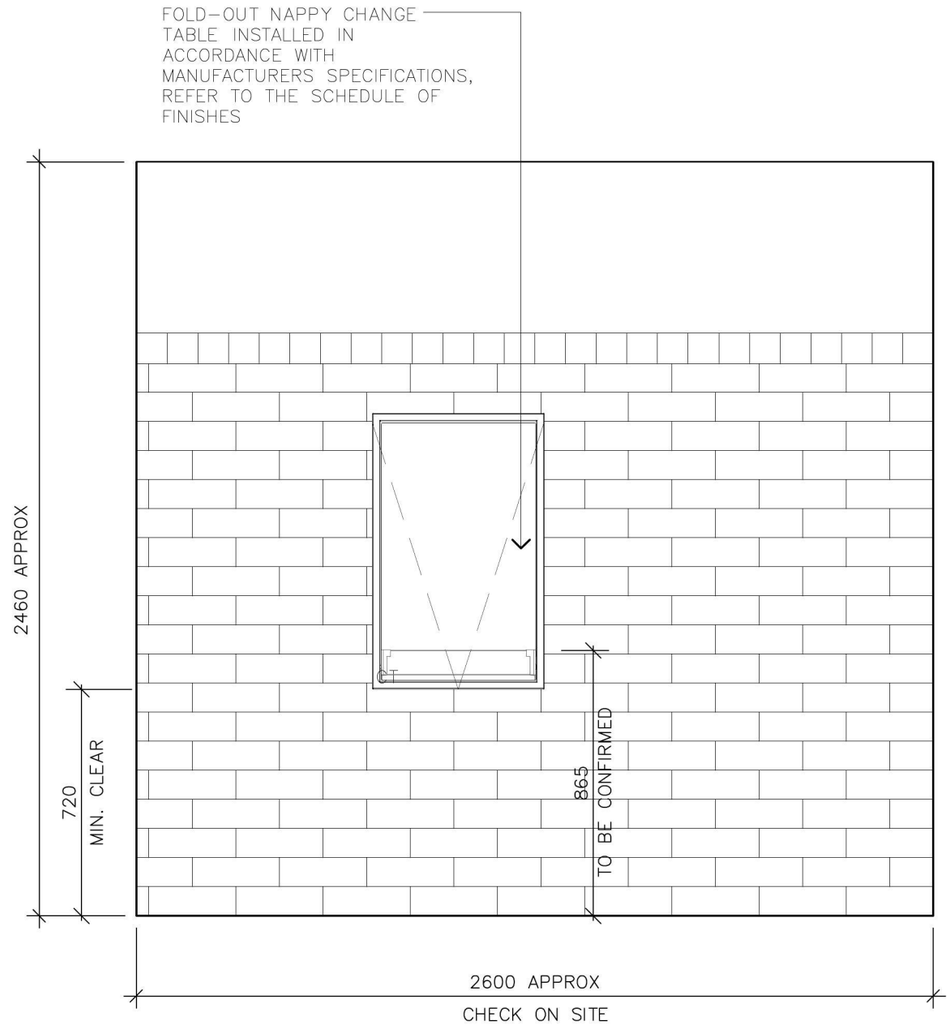
drawing: UNISEX/ACCESS WC DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A11



2B / A12 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20



2C / A12 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

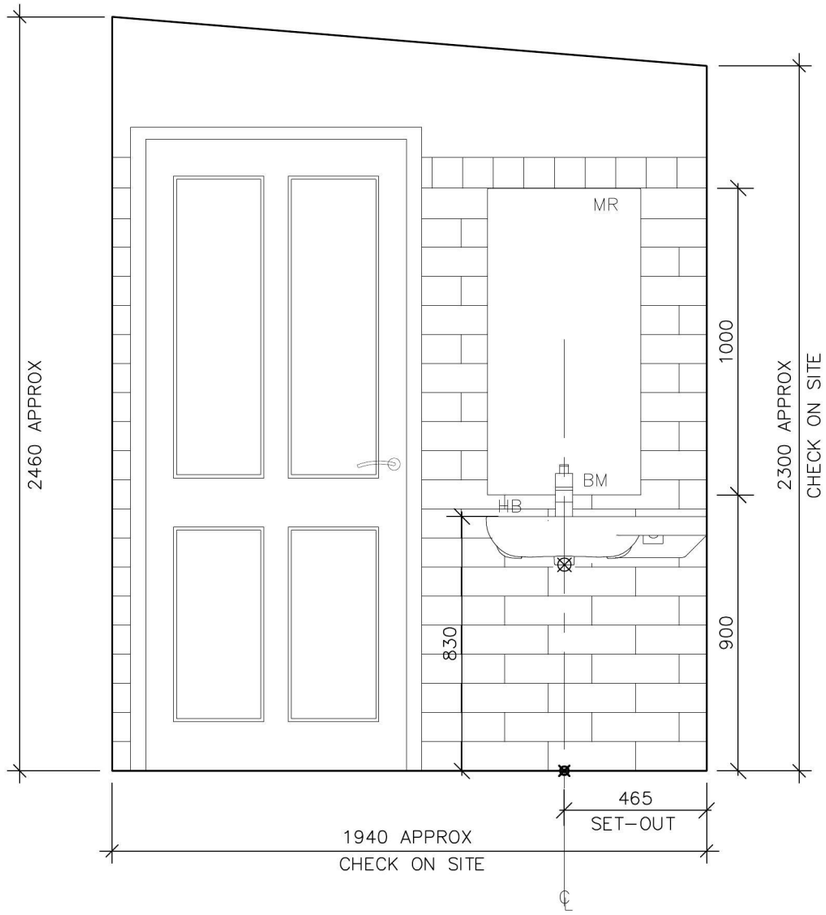
Architectural: justin long design www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

drawing: UNISEX/ACCESS WC DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A12



2D / A13 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

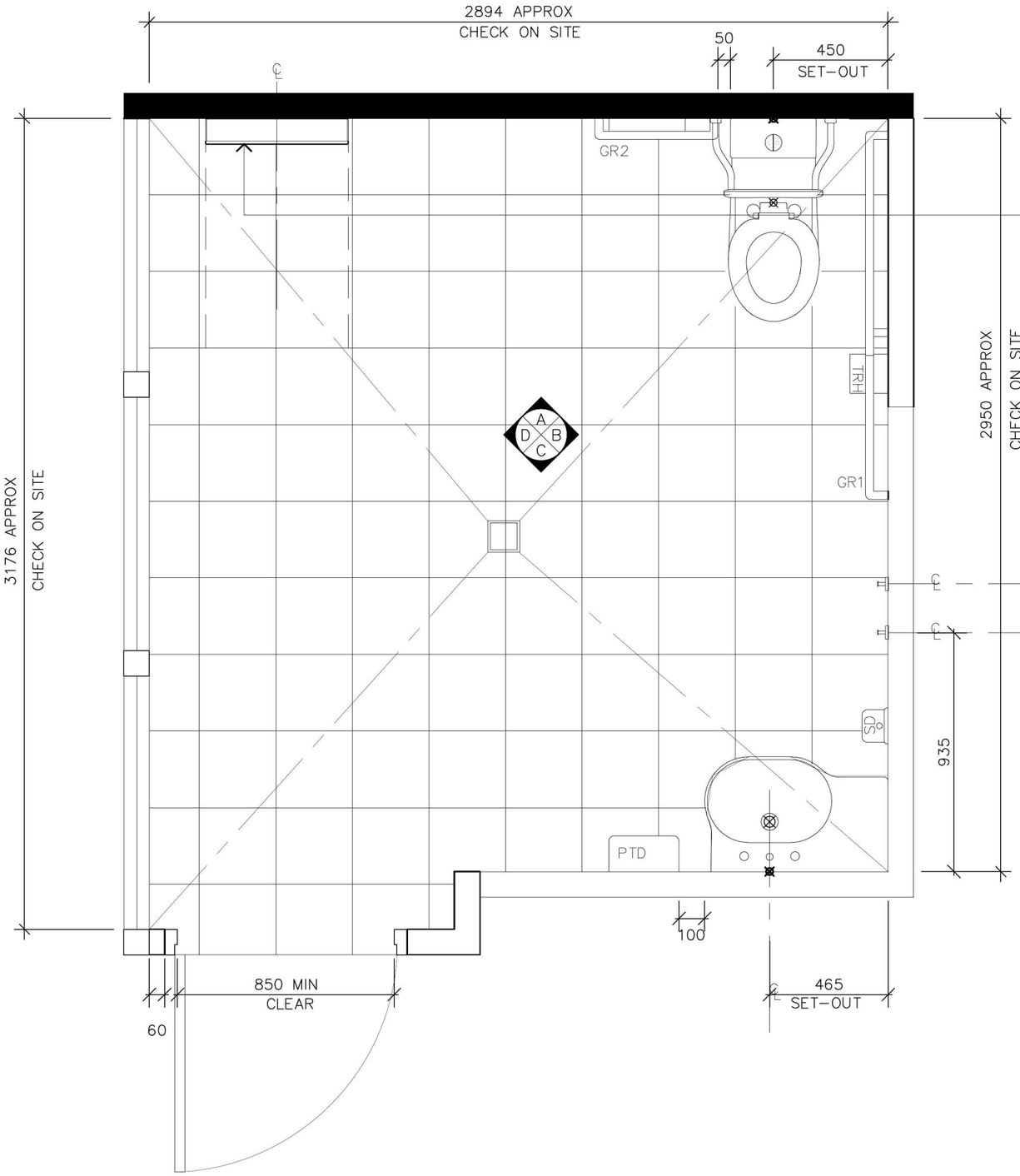
Architectural: justin long design www.jladesign.com.au

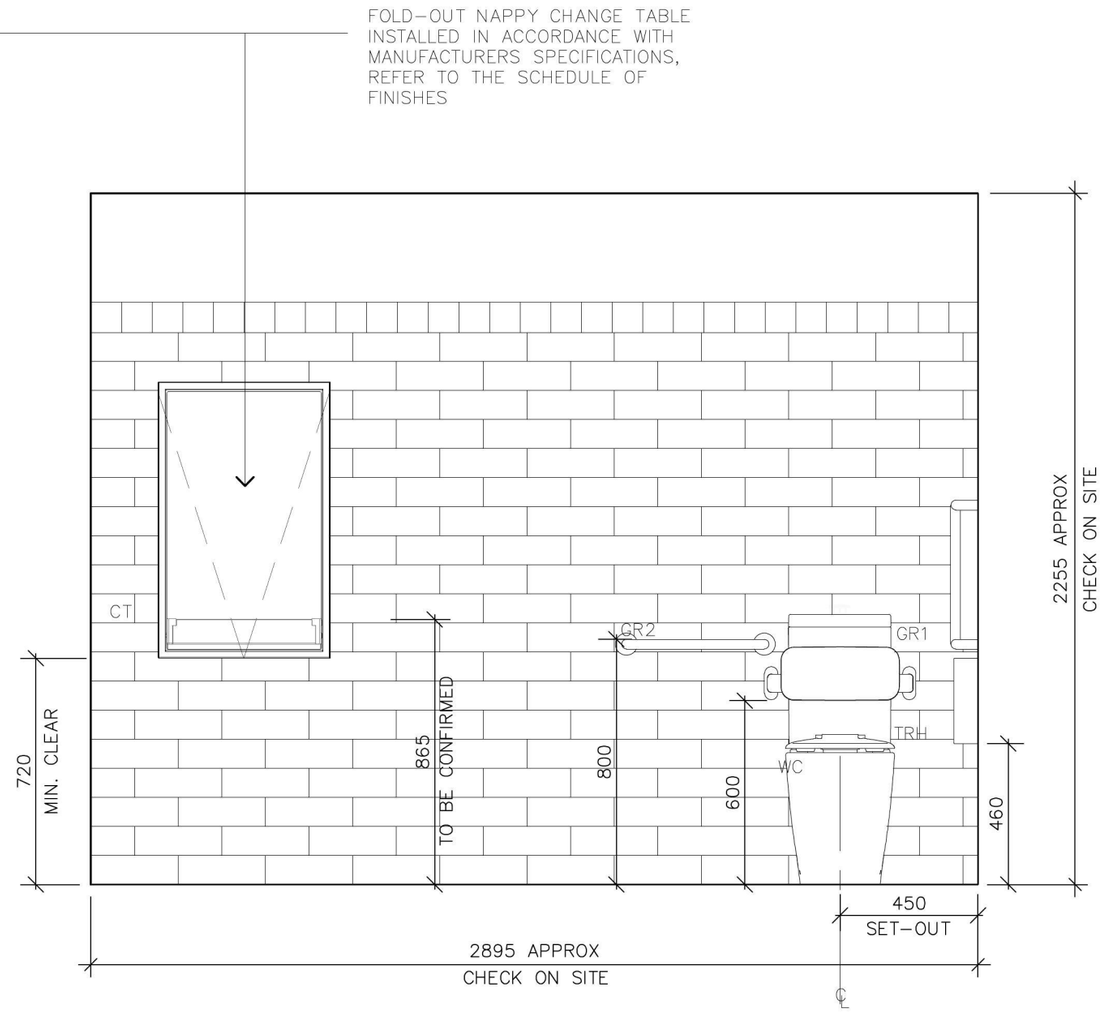
drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

drawing: UNISEX/ACCESS WC DETAIL

issue	amendment	date
TD	– TD ISSUE	14.03.19
P	– PRELIM. TD ISSUE	20.02.19

A13





01 A14 UNISEX/ ACCESS WC PLAN DETAIL

1:20

2A A14 UNISEX/ ACCESS WC ELEVATION DETAIL

1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

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justin long design
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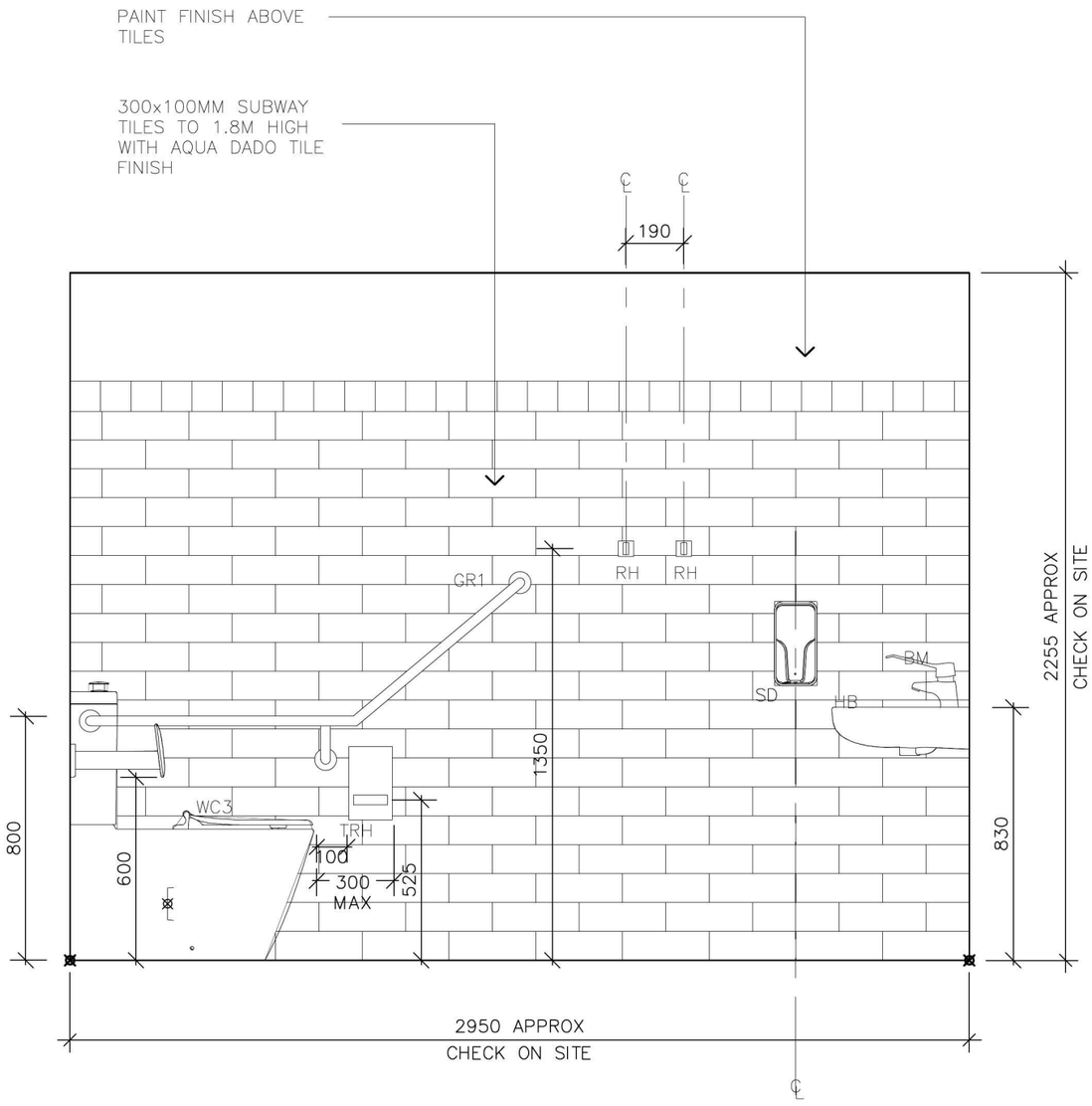
FS	1:20	14.03.19	TD	–

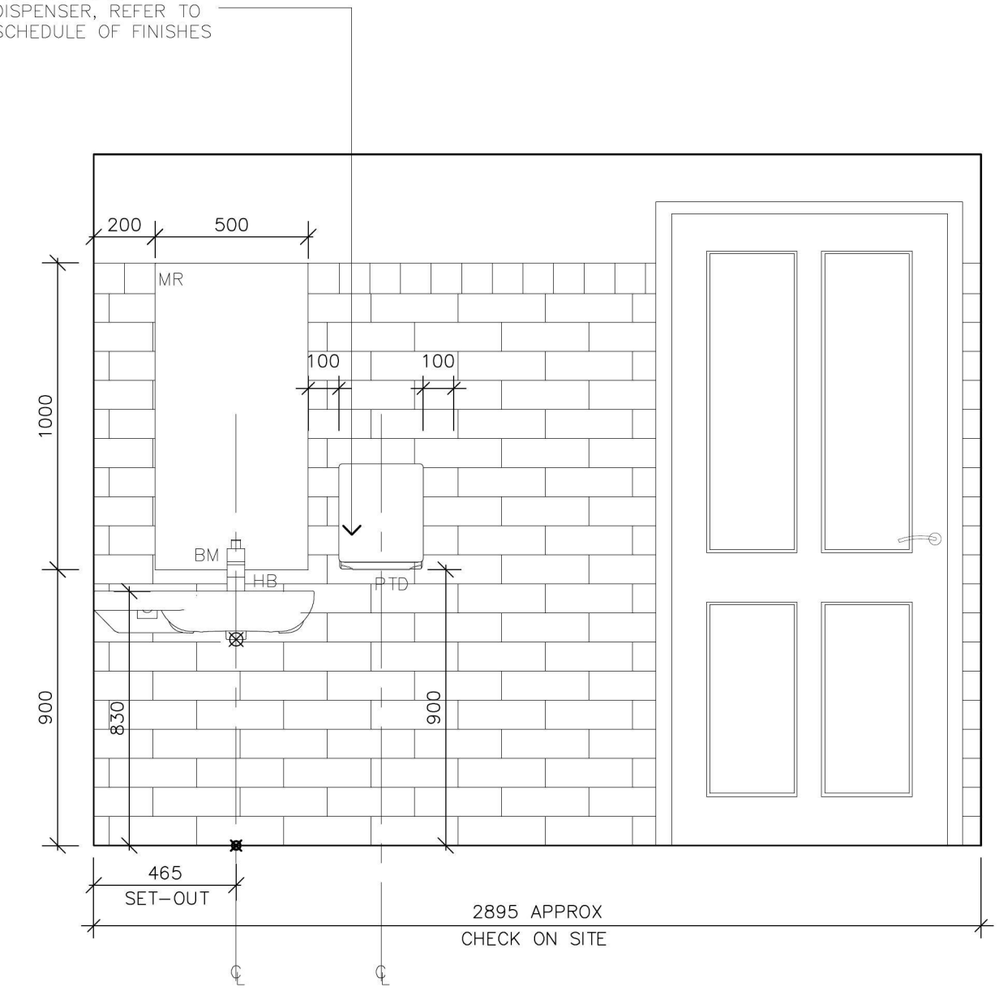
drawing: UNISEX/ACCESS WC DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A14



2B / A15 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20



2C / A15 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

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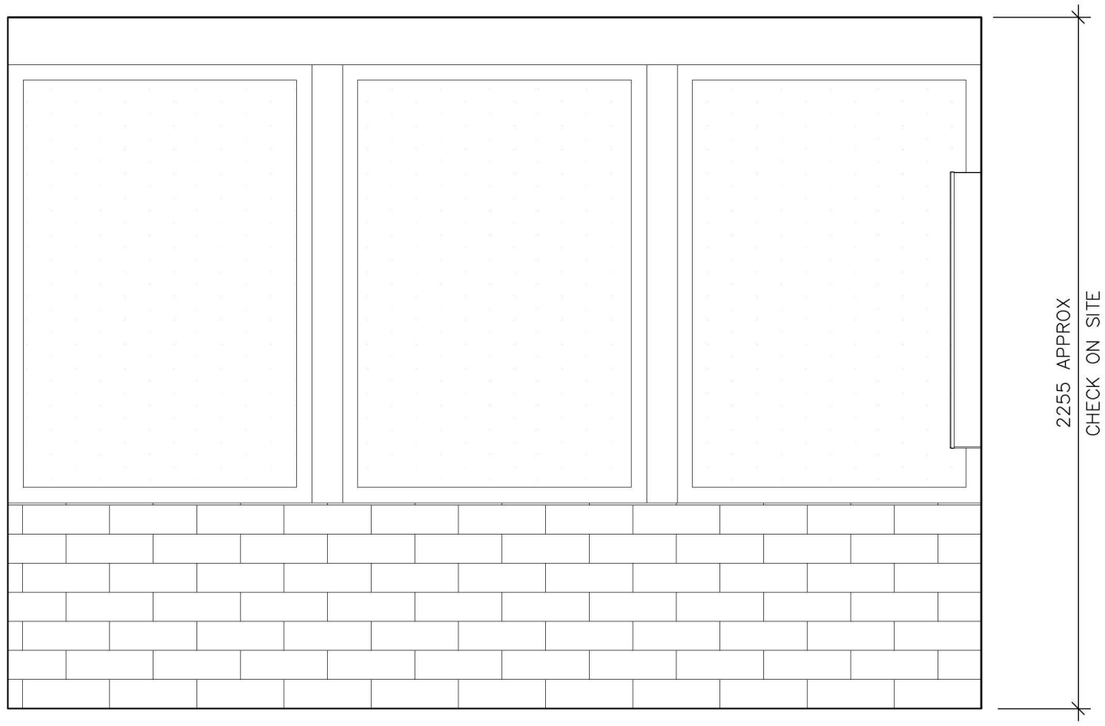
drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

drawing: UNISEX/ACCESS BATHROOM DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A15



2D / A16 UNISEX/ ACCESS WC ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
justin long design
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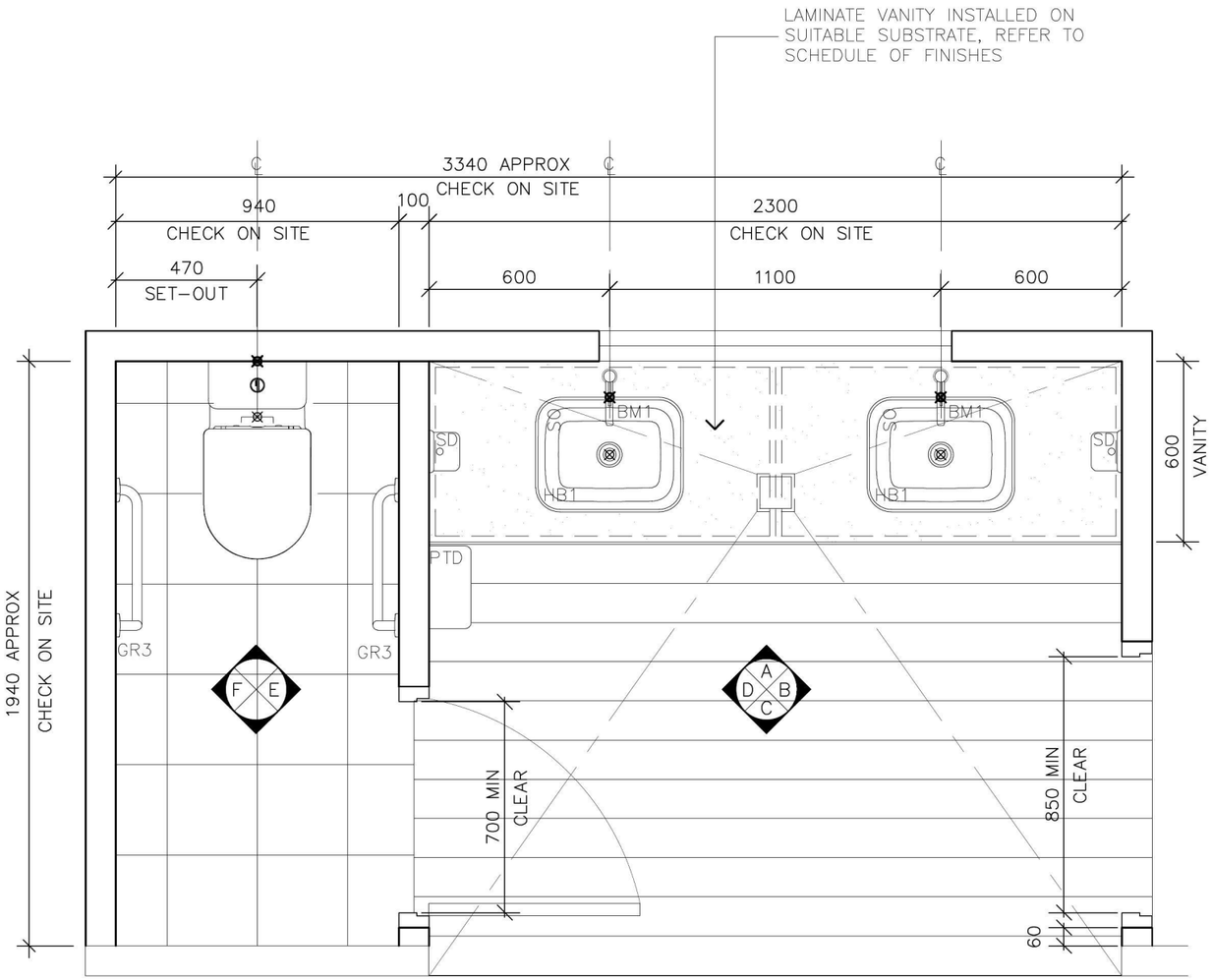
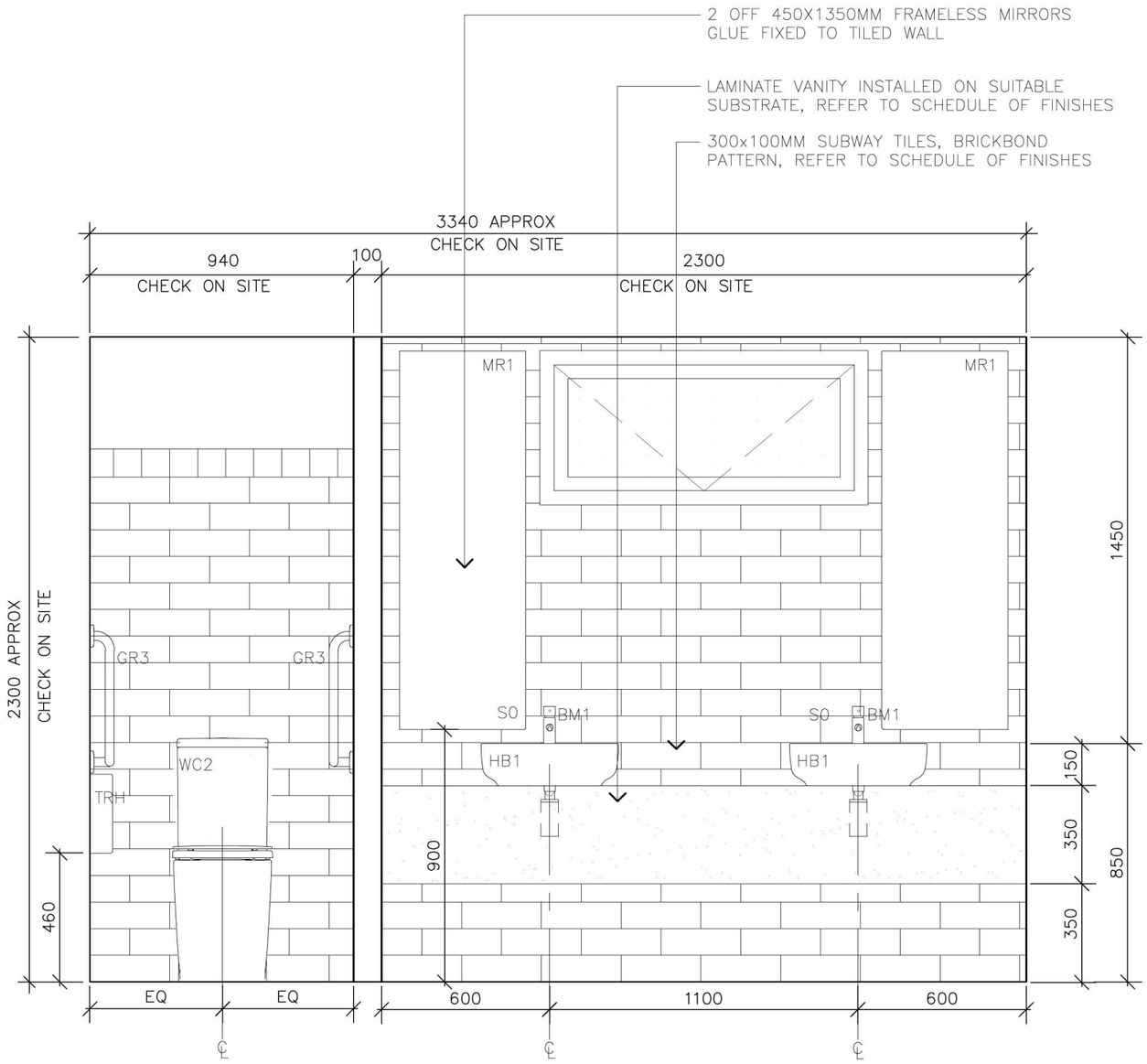
drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

drawing:
UNISEX/ACCESS BATHROOM DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A16





01 / A17 UNISEX AMBULANT BATHROOM PLAN DETAIL 1:20

2A / A17 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

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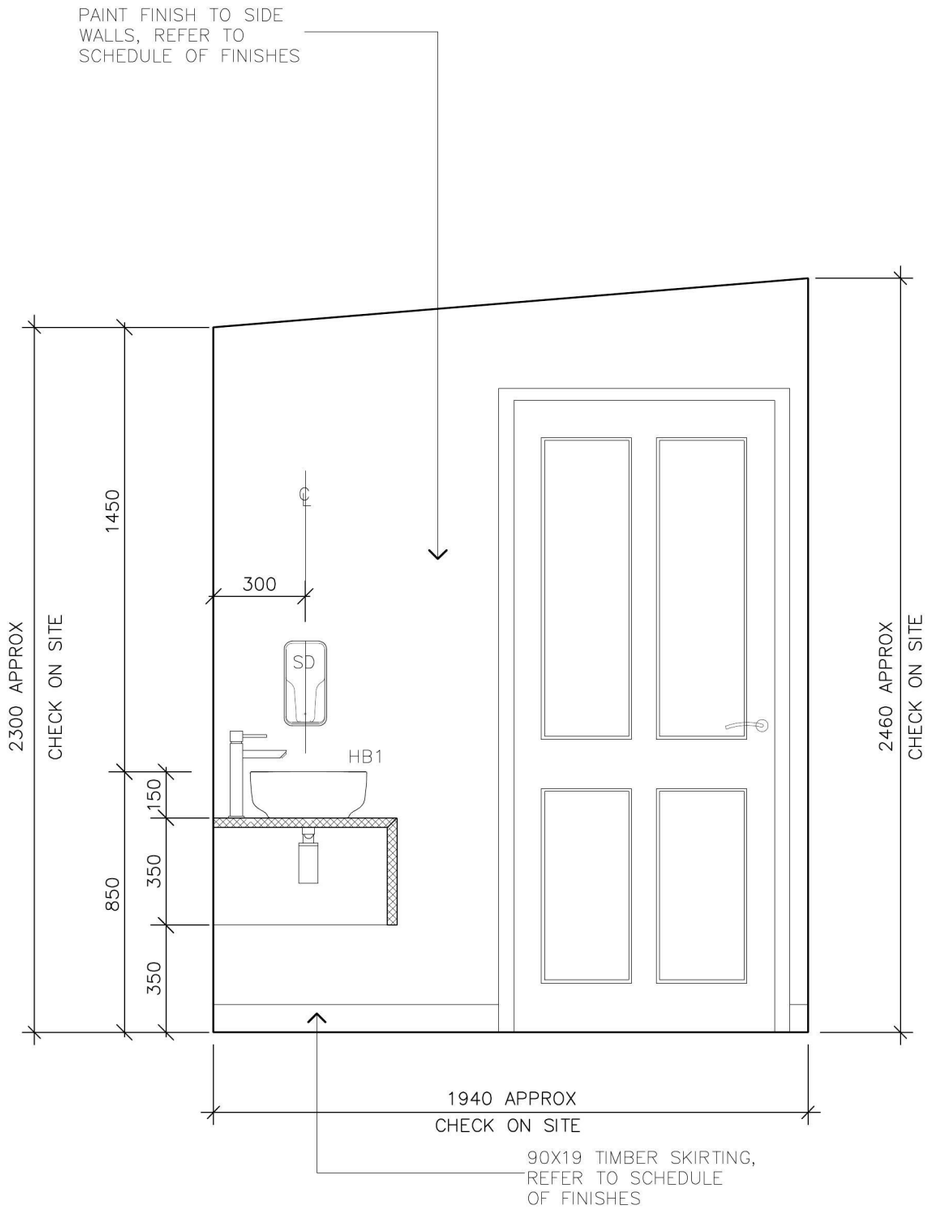
Architectural: justin long design www.jladesign.com.au

drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

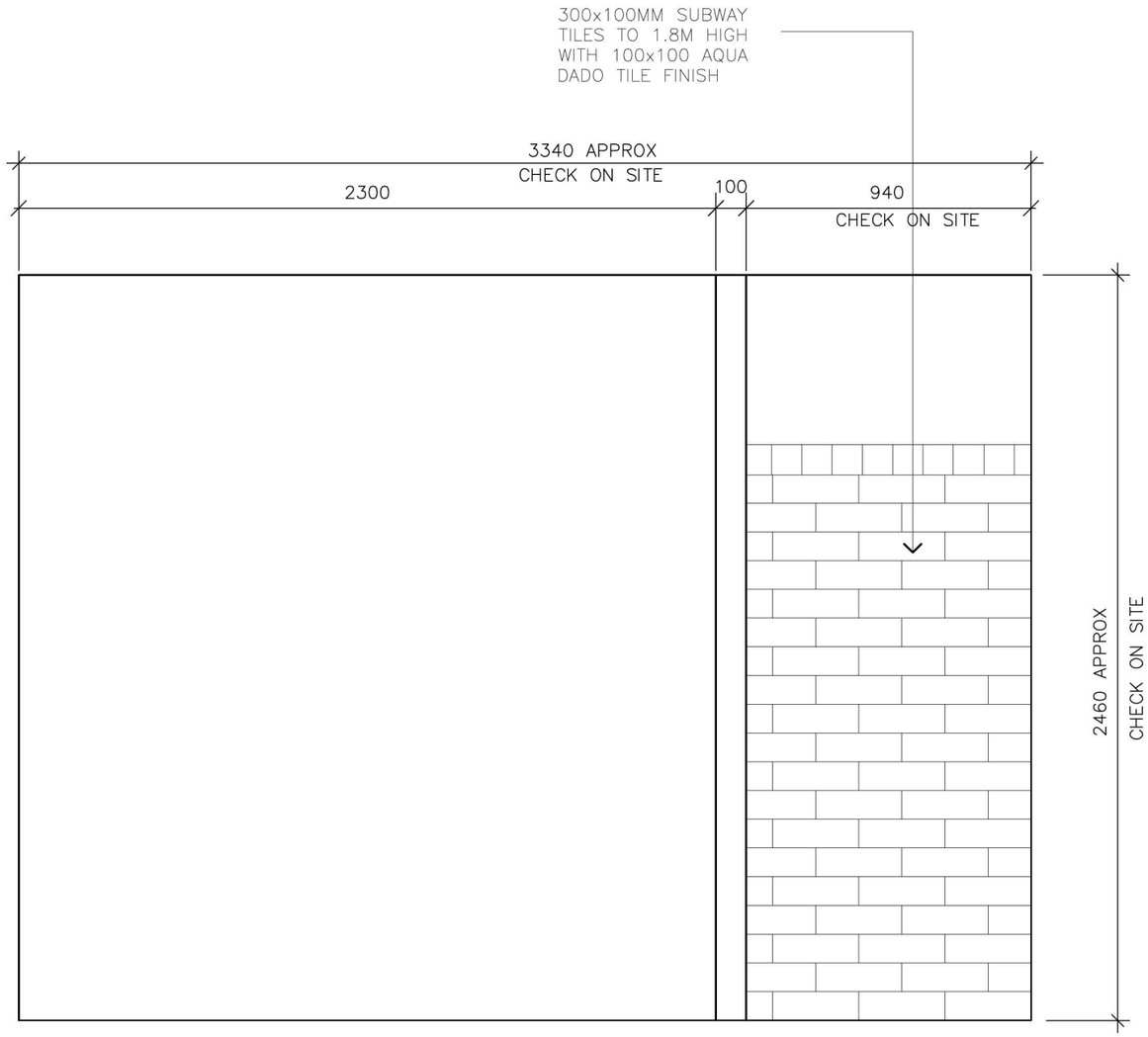
drawing: UNISEX AMBULANT BATHROOM DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A17



2B / A18 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20



2C / A18 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20

EMU PLAINS PUBLIC SCHOOL, EMU PLAINS, NSW

PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING

for PENRITH CITY COUNCIL

Architectural:
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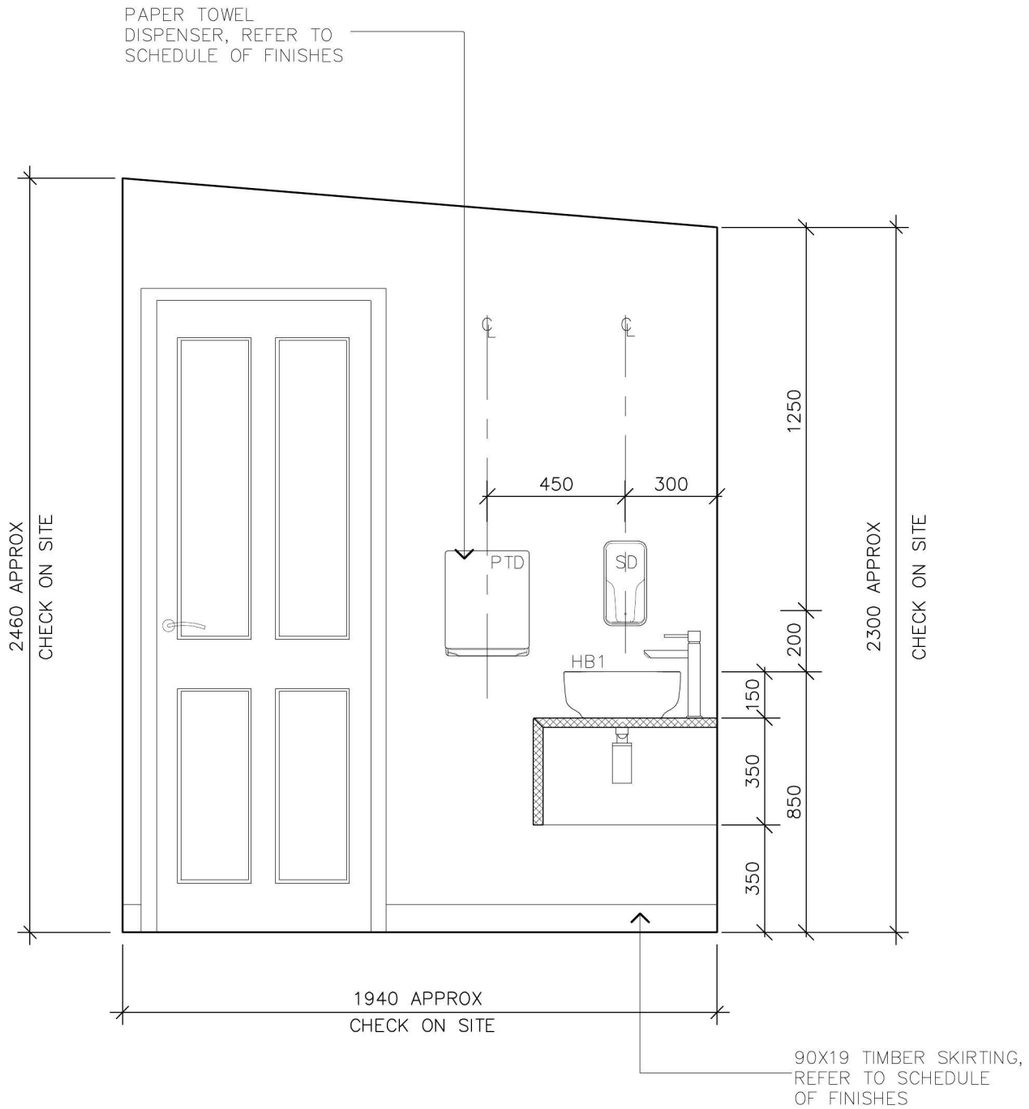
drawn	scale	date	issue	amend
FS	1:20	14.03.19	TD	–

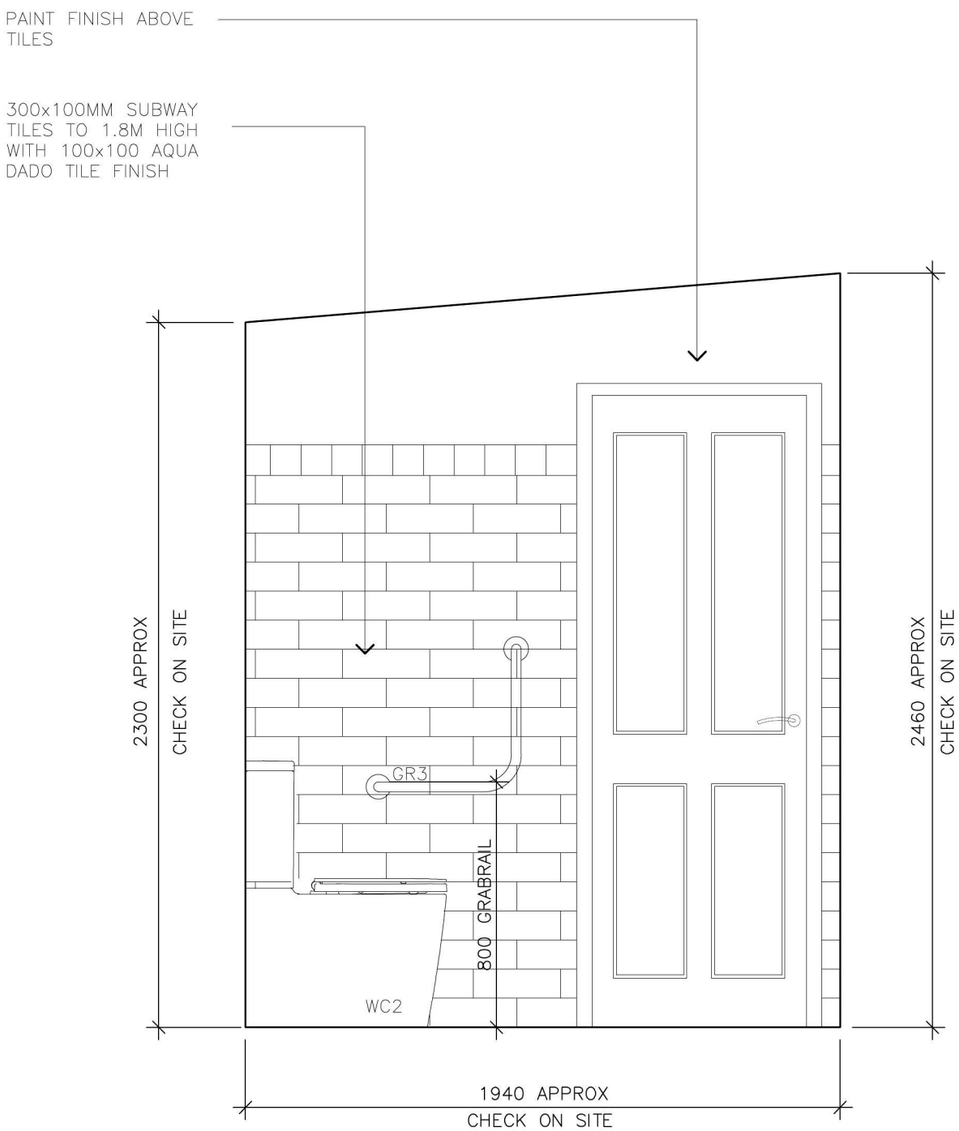
drawing: UNISEX AMBULANT BATHROOM DETAIL

issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A18



2D / A19 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20



2E / A19 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20

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FS	1:20	14.03.19	TD	–

drawing:
UNISEX AMBULANT BATHROOM DETAIL

issue		amendment	date
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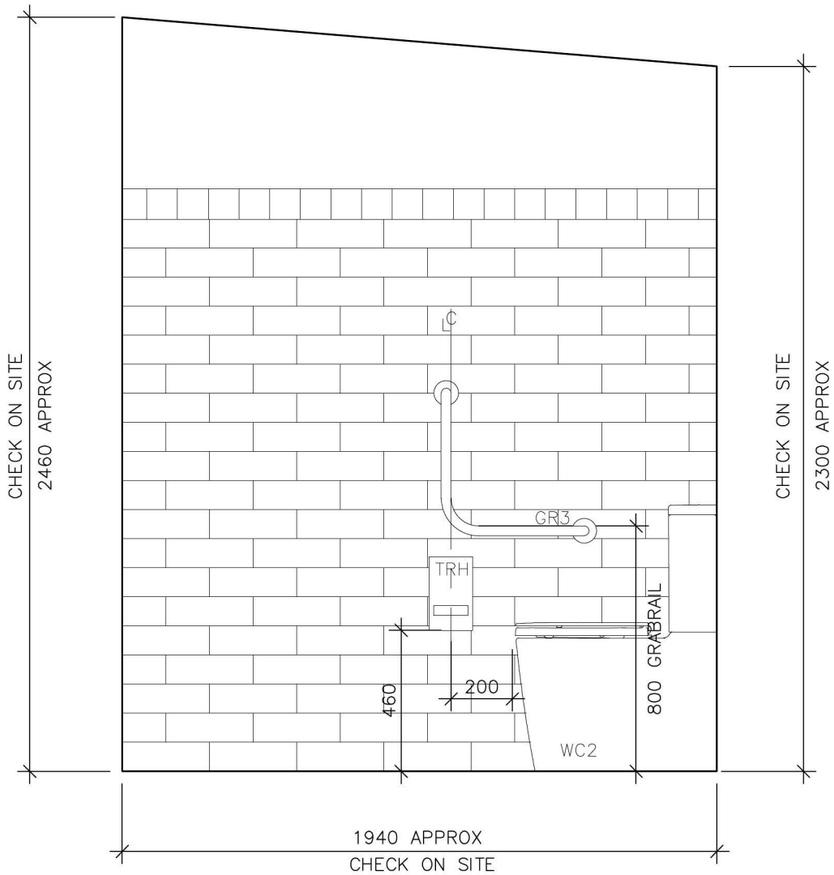
A19



2F / A20 UNISEX AMBULANT BATHROOM ELEVATION DETAIL 1:20

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issue		amendment	date
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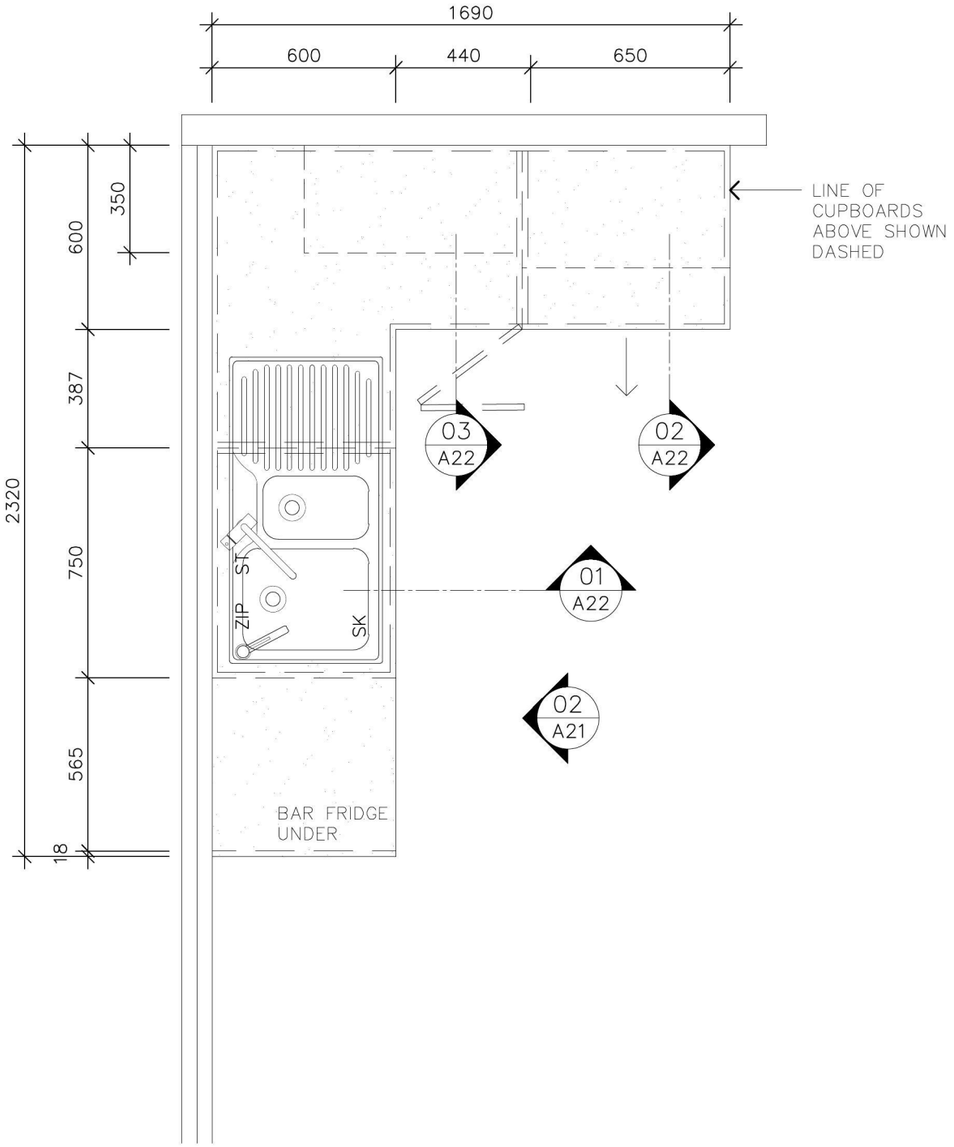
P	–	PRELIM. TD ISSUE	20.02.19

A20



01 A21 KITCHENETTE 01 DETAIL PLAN

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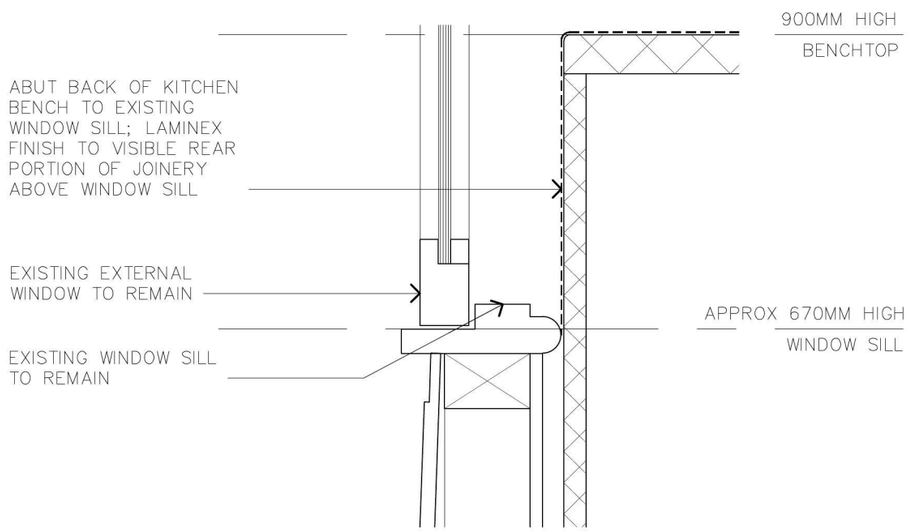
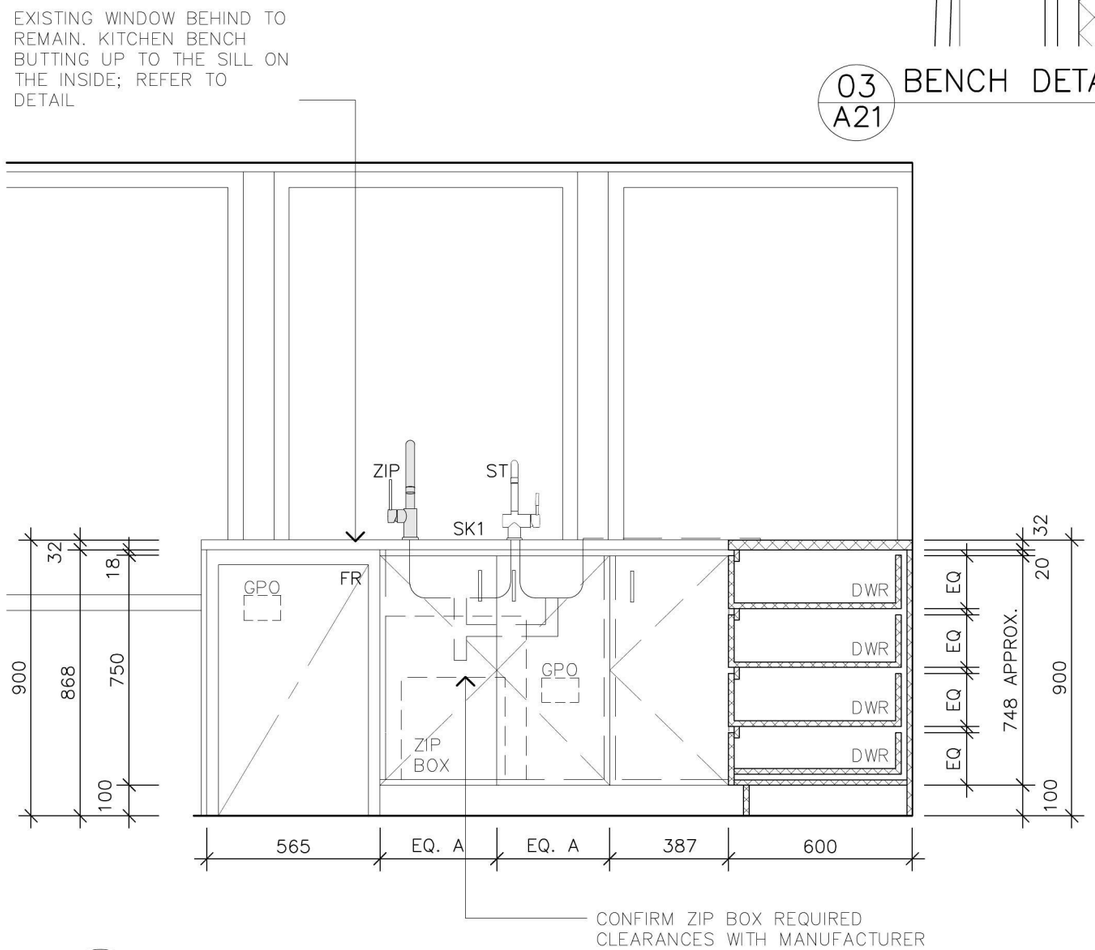


03 A21 BENCH DETAIL

1:5



02 A21 KITCHENETTE SECTION

1:20

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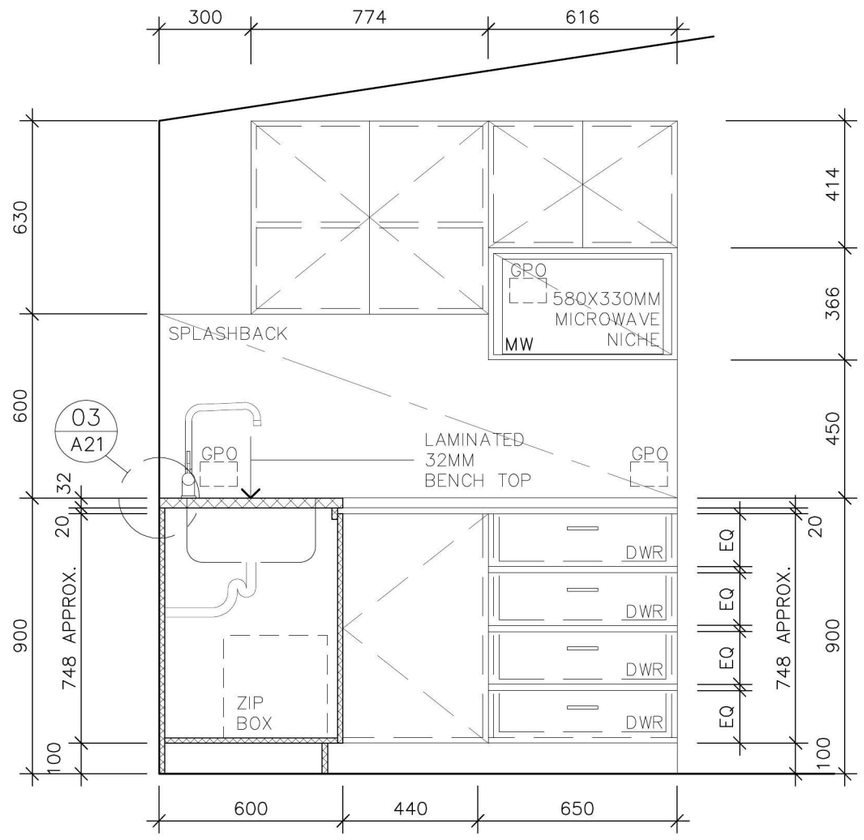
issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A21



01 A22 KITCHENETTE SECTION

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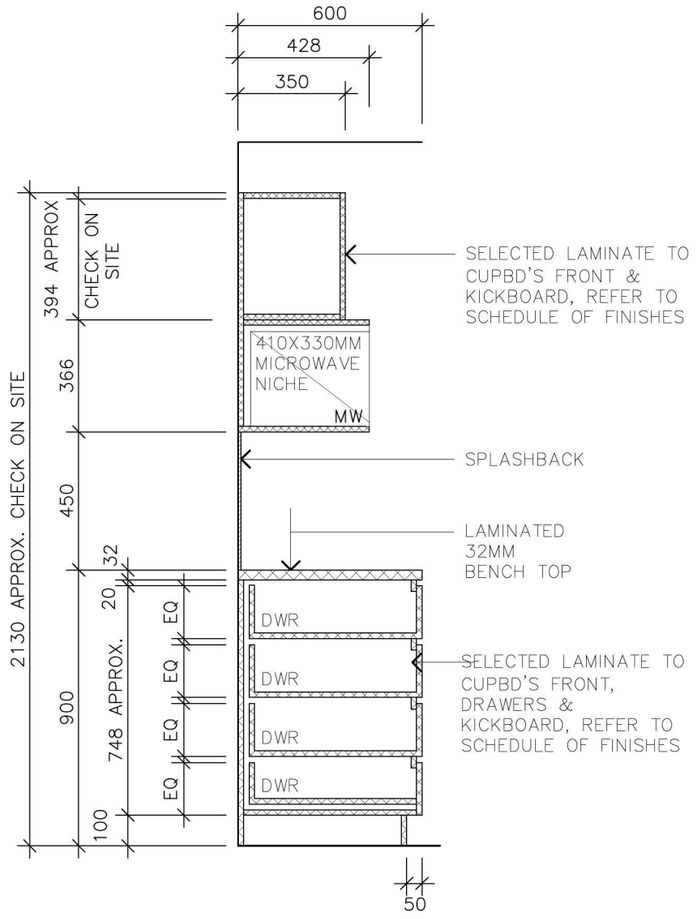

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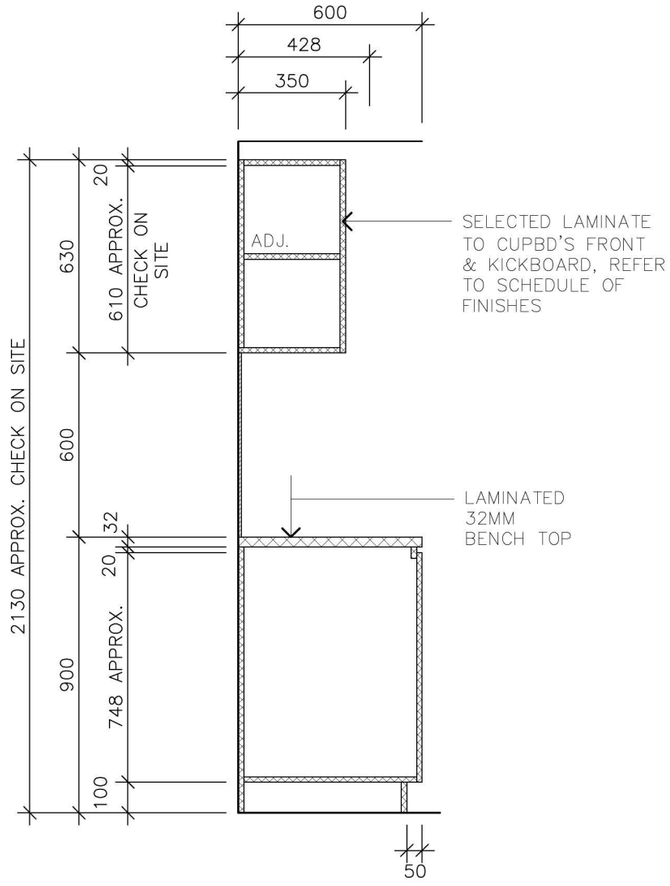

03 A22 KITCHENETTE SECTION

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KITCHENETTE 1 DETAIL

issue		amendment	date
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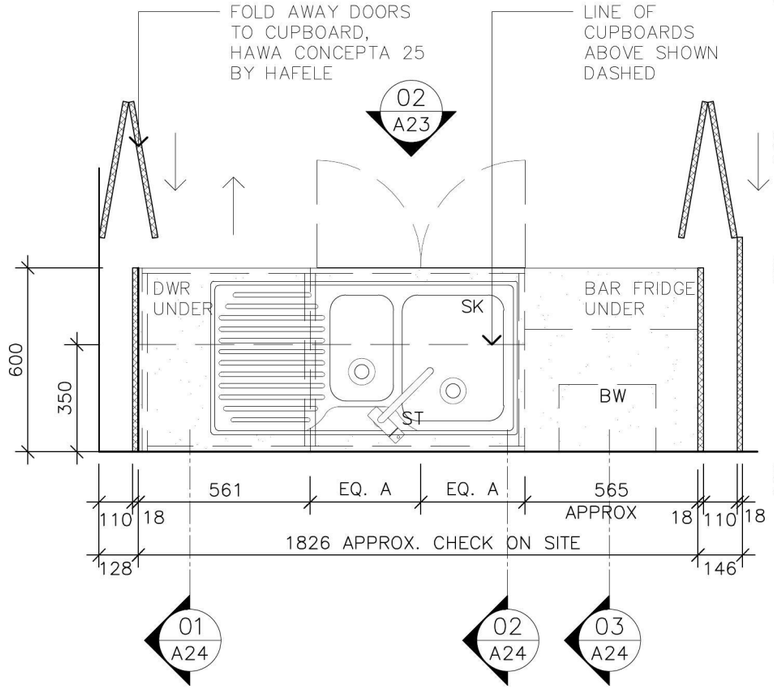
P	–	PRELIM. TD ISSUE	20.02.19

A22



01 A23 KITCHENETTE 02 DETAIL PLAN

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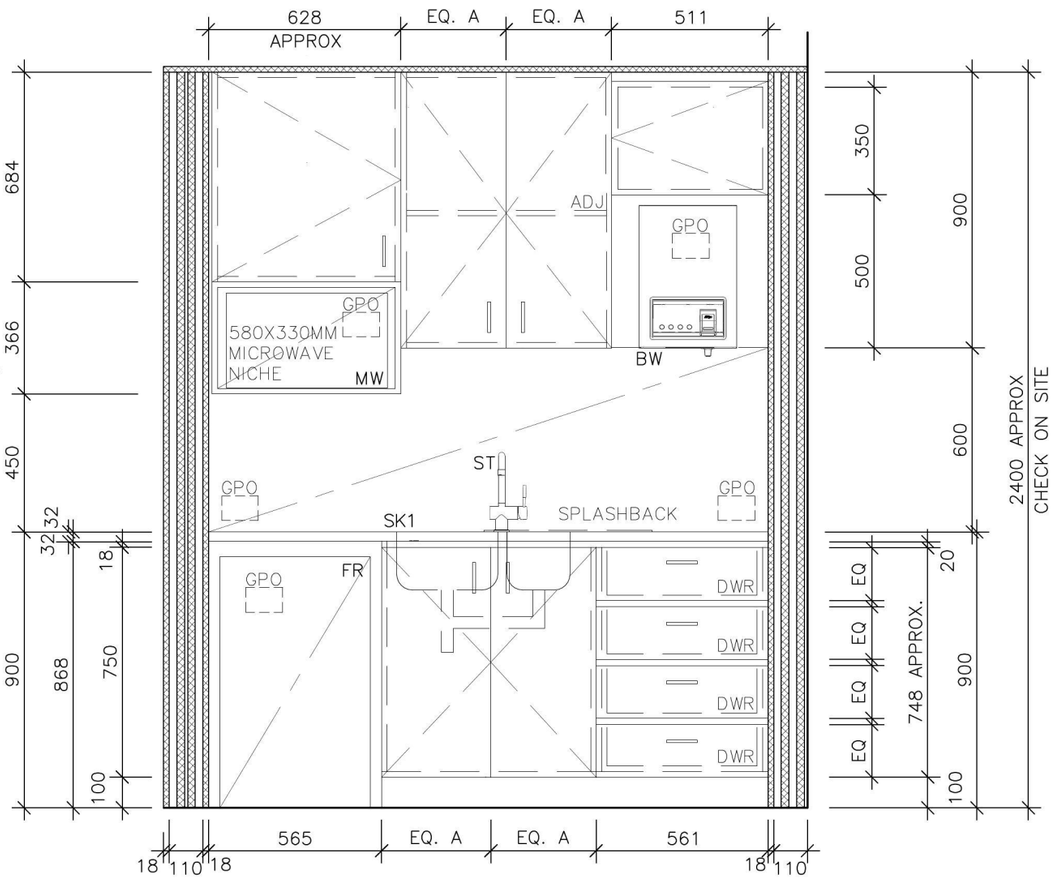

02 A23 KITCHENETTE ELEVATION

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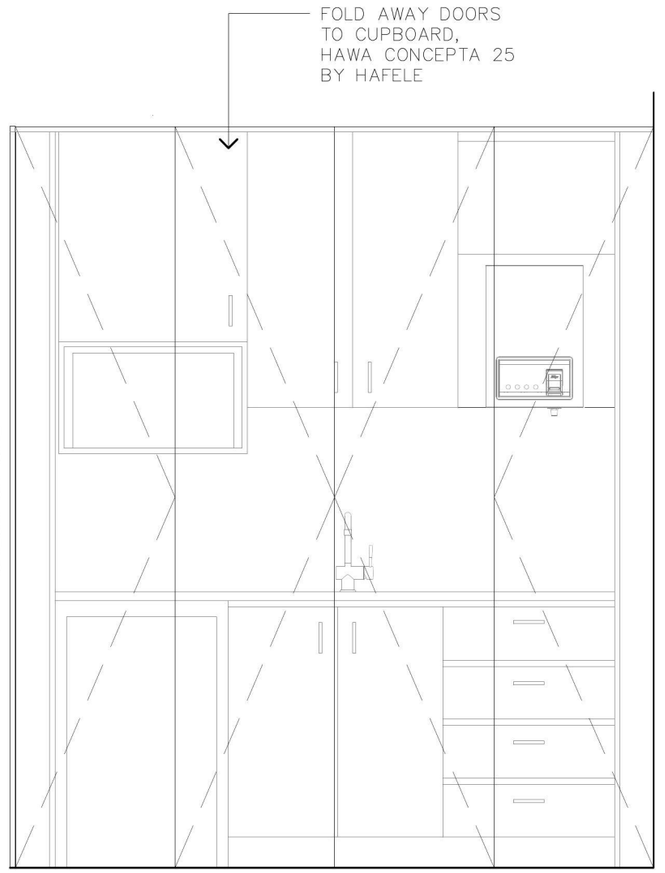

02 A23 KITCHENETTE ELEVATION DOORS CLOSED

1:20

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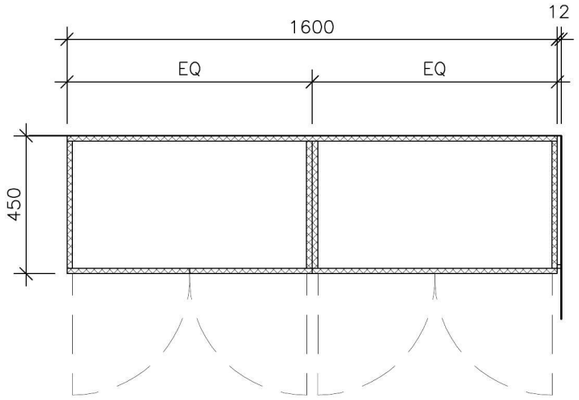
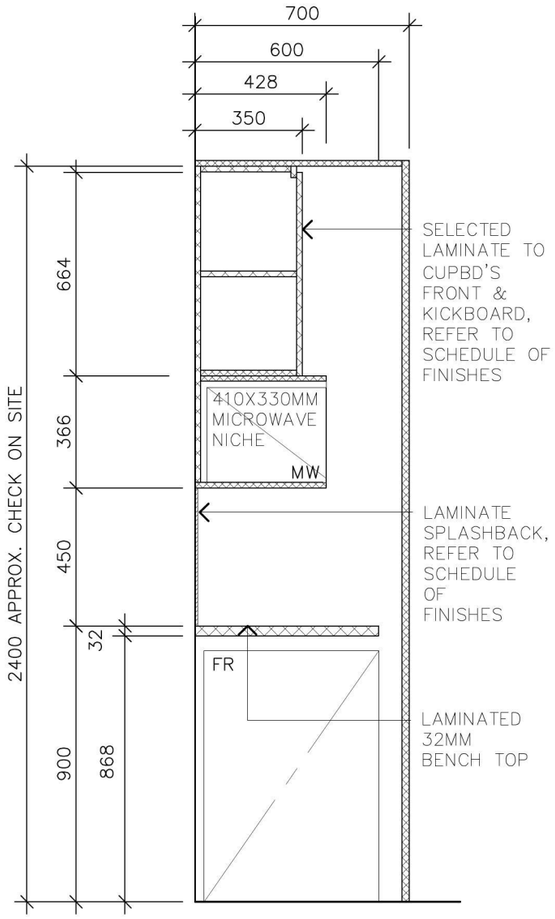
A23



04 A24 CUPBOARD PLAN DETAIL
1:20



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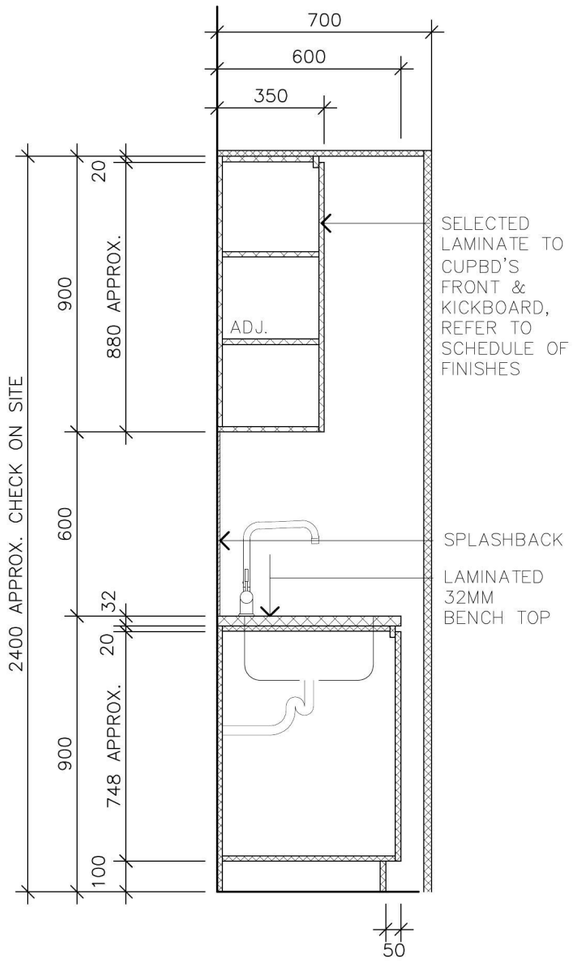

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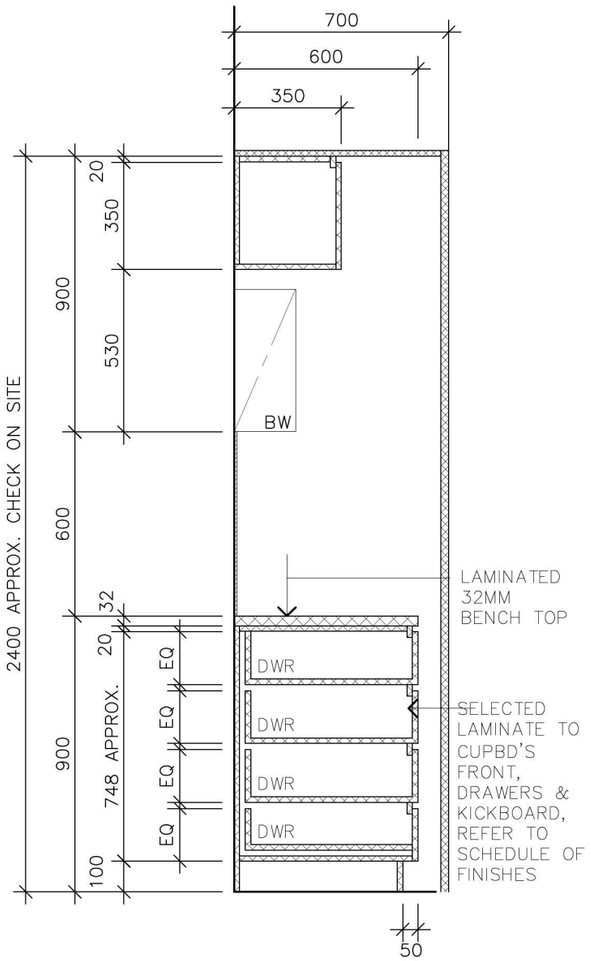

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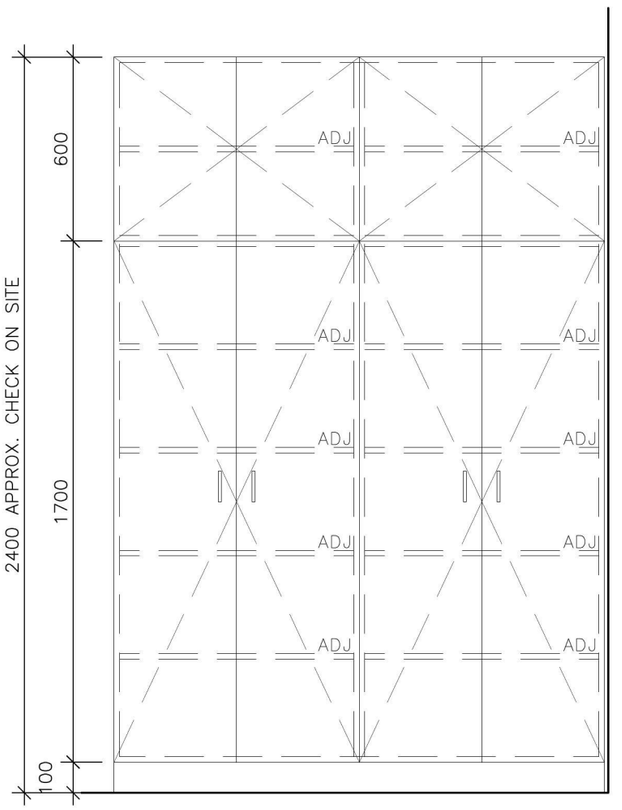

05 A24 CUPBOARD ELEVATION
1:20

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FS	1:20	14.03.19	TD	–

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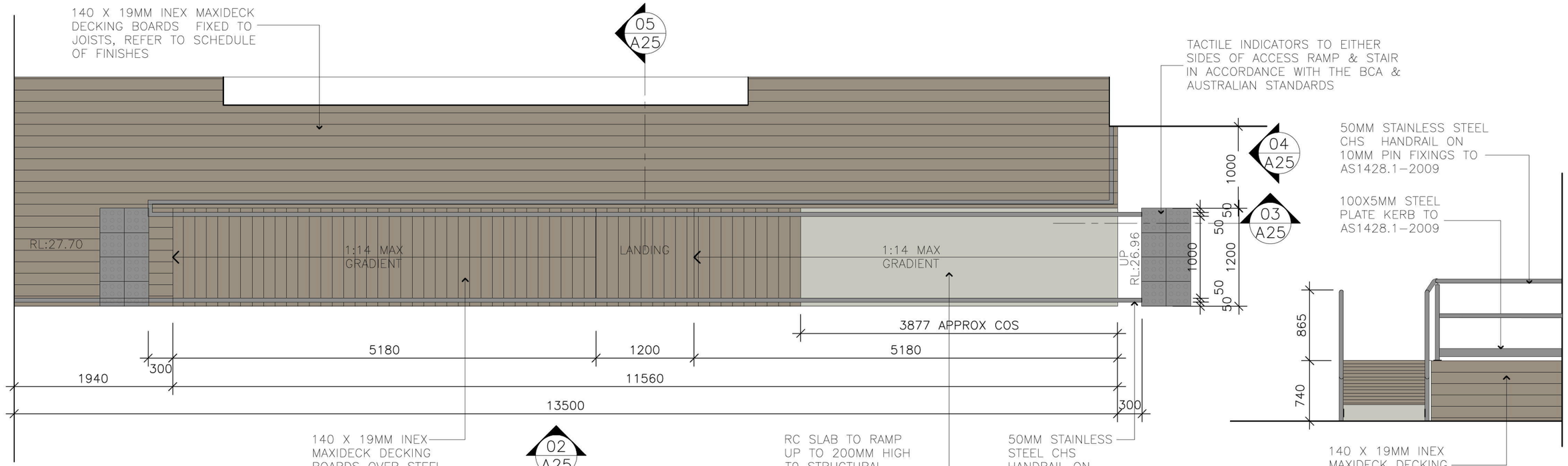
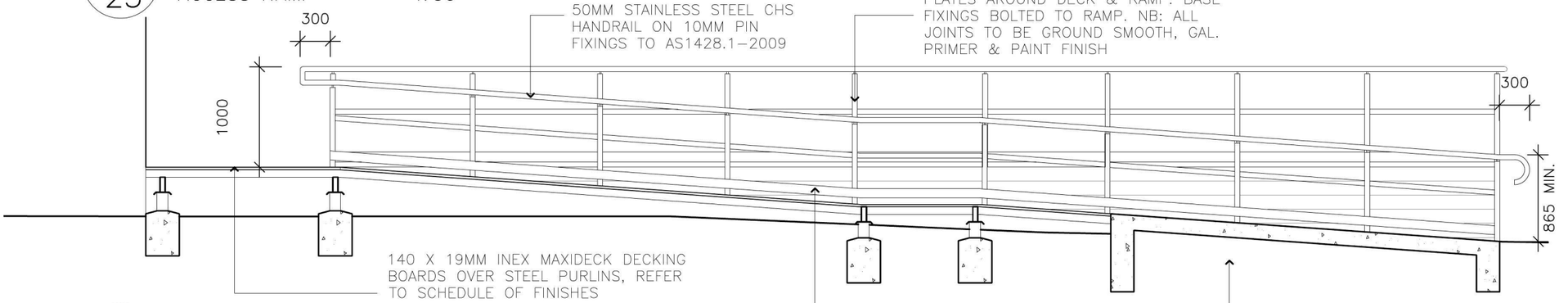
issue		amendment	date
TD	–	TD ISSUE	14.03.19
P	–	PRELIM. TD ISSUE	20.02.19

A24



01 A25 PLAN DETAIL
ACCESS RAMP 1:50

02 25 ELEVATION DETAIL
ACCESS RAMP 1:50



03 A25 SECTION DETAIL
ACCESS RAMP 1:50

04 25 ELEVATION DETAIL
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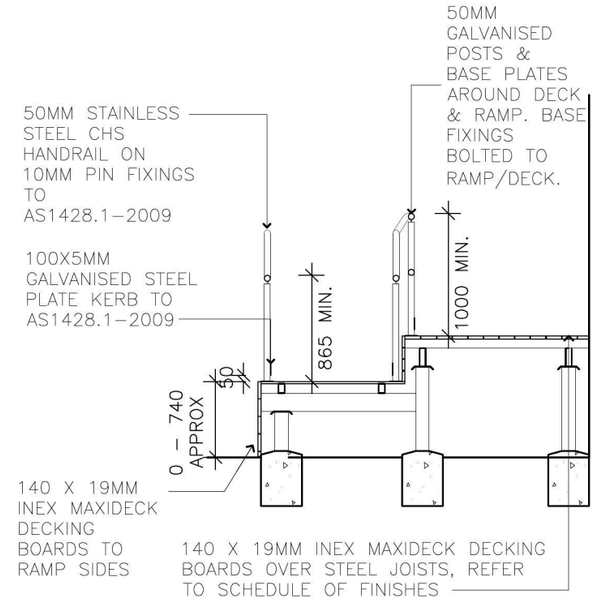

05 A25 SECTION DETAIL
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PROPOSED ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
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TD	–	TD ISSUE	14.03.19
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A25