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.
- 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
- 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.
- 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
- 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.
- 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.
- 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

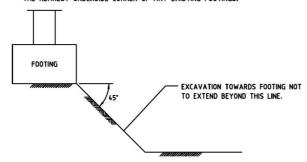
THE STRUCTURE SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING DESIGN WIND LOADS U.N.O. (AS/NZS 1170.2:2002):

WIND TERRAIN CATEGORY	3
IMPORTANCE LEVEL	3
AVERAGE RECURRENCE INTERVAL	1000 YEARS
REGIONAL WIND SPEED, VR	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 VORKS SHALL NOT COMMENCE UNTIL ADVICE HAS BEEN RECEIVED FROM THE STRUCTURAL ENGINEER.
- 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.
- 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

FOUNDATION NOTES

- 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.
- ALL FOOTINGS SHALL BE FOUNDED A MINIMUM OF 100mm INTO NATURAL GROUND. WHERE THE DEPTH OF NATURAL GROUND IS BEYOND THE SPECIFED FOOTING
 DEPTH, THE 100mm EMBEDMENT MAY BE ACHIEVED BY EXTENDING THE FOOTING, OR BY BUILDING UP WITH 15MPg 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.
- 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
- 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 A LEVELS WHICH MAY BE VARIED IF NECESSARY PRIOR TO FURTHER WORK.
- 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 F00TINGS 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 C19
 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.)

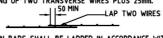
- G16 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF BOTH THE DEPTH AND LOCATION OF ALL SERVICES AND UNDERGROUND STRUCTURES PRIOR TO PROCEEDING WITH THE WORKS.
- G17 IF ANY OF THE STRUCTURE PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE 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

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 C1 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
- C3 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.
- 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.
- ALL CEMENT IS TO BE "GP" GENERAL PURPOSE PORTLAND CEMENT OR "GB" 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
- 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.
- CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY LAYERS OF MALTHOU FOR 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. 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
- 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.
 - DENOTES STRUCTURAL-GRADE PLAIN ROUND BARS, 230 MPa YIELD STRENGTH TO AS/NZS 4671.
 ALL REINFORCING BARS TO AS 1302.
 - 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 C41 THE BUILDER SHALL COORDINATE WITH ALL TRADES TO ENSURE THAT PROVISION IS 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. 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 OTHERWIS
- C27 RFINFORCEMENT 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
- 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
- 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
- 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 THE REQUIRED CONCRETE COLOUR REQUIREMENTS.
- C39 EITHER BACKPROPPING OR AN UNDISTURBED SUPPORT SYSTEM OF FORMWORK IS TO BE ADOPTED. A RESHORING SYSTEM IS <u>NOT</u> 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:-
 - MINIMUM FORMWORK STRIPPING TIMES ARE TO BE AS FOLLOWS:-
 - 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.
 - SOFFITS OF BEAMS AND SLABS MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF CONCRETE fcm HAS REACHED 5.0 MPα OR A MINIMUM OF 2 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.
 - REMOVAL OF FORMWORK SUPPORT (PROPS) TO BEAM AND SLAB SOFFIT MAY BE UNDERTAKEN WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE fcm HAS REACHED 28 MPa. OR A MINIMUM OF 18 DAY: AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.
 - 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.
 - 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
- 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
В	15/03/19	FOR CONSTRUCTION
A	13/03/19	FOR CONSTRUCTION PRELIMINARY

Project PROPOSED ALTERATIONS AND ADDITIONS AT 1158-1160 CASTLEREAGH ROAD CASTLEREAGH

Client PENRITH CITY COUNCIL

Sheet Title

CONSTRUCTION NOTES (SHEET 1 OF 2)



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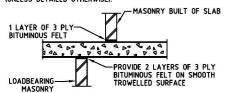
MASONRY NOTES

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

MA	SONRY 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
- 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.
- MO 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
 PRING TO START OF LAYING BIOLOGY. PRIOR TO START OF LAYING BLOCKS/BRICKS.
- M14 REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE ABOVE AND THE
 - (n) BLOCKS SHALL BE STRENGTH GRADE 20
 - MORTAR SHALL COMPRISE 1 CEMENT: 0.25 LIME: 2 SAND
 PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES
 - (d) CORE FILLING GROUT TO BE f'c = 20 MPα, 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 SUPPURI 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 F

STRUCTURAL STEEL NOTES

- 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 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
 - (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:

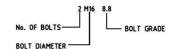
4. 6/S REFERS TO COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO AS1111 TIGHTENED TO A SNUG TIGHT CONDITION.

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:



- 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.
- AFTER TIGHTENING, EXPOSED FACES OF NUTS, BOLTS AND WASHERS SHALL BE PREPARED AND COATED AS SPECIFIED OR AS FOR THE ADJACENT WORK.
- 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 SUCLEANED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATION.
- 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 FRECTION. THE APPROVED FRECTION SEQUENCE SHALL NOT BE VARIED DURING THE ERECTION PROCESS WITHOUT THE APPROVAL OF THE DESIGN ENGINEER. ALL STEEL WORK 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
- 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. THI 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 TH ROOF SHEET, FLASHING AND GUTTERS WITH C100-10 OR SIMILAR PARTICULARLY AT OBLIQUELY TRIMMING CLADDING.

TIMBER NOTES

- ALL TIMBER MATERIALS, WORKMANSHIP AND PRACTICE SHALL BE IN ACCORDANCE WITH THE TIMBER ENGINEERING STANDARD AS 1720 AND THE TIMBER FRAMING STANDARD AS 1884, 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.
- TS 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 SIMILARI, INUSSES SHALL BE DESIGNED BY THE MANDACTURER 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
 - (c) PRESSED METAL CONNECTOR PLATES SHALL BE INSTALLED ON BOTH SIDES
 - (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.
 - 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.

RETIGHTENED IMMEDIATELY BEFORE BEING BUILT-IN.

- 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
- 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

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BRICKWORK LINTEL SCHEDULE:

			CLE	AR SPA	N 0 F 0	PENINO	i		z
		1200	1500	1800	2100	2400	2700	3000	TER THAN T THE
₹.	500	75x100x6 UA	75x100x6 UA	75x100x6 UA	75x100x6 UA	100×100×6 EA	100x100x6 EA	150x90x8 UA	AT EN
BRICKWORK LINTEL.	1000	75x100x6 UA	75x100x6 UA	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	ISUL ISUL AL
FB	1500	75x100x6 UA	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x100x10 UA	NS GREAT CONSULT TURAL EN
- F	2000	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x90x8 UA	150x100x10 UA	SPAI 3000 TRUC
HEIGHT OF ABOVE	2500	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x90x8 UA		S. L.
	3000	75x100x6 UA	100x100x6 EA	100x100x6 EA	100x100x6 EA	150x90x8 UA	150x100x10 UA		

Project PROPOSED ALTERATIONS AND ADDITIONS AT 1158-1160 CASTLEREAGH ROAD CASTLEREAGH

Client PENRITH CITY COUNCIL

Sheet Title

CONSTRUCTION NOTES (SHEET 2 OF 2)

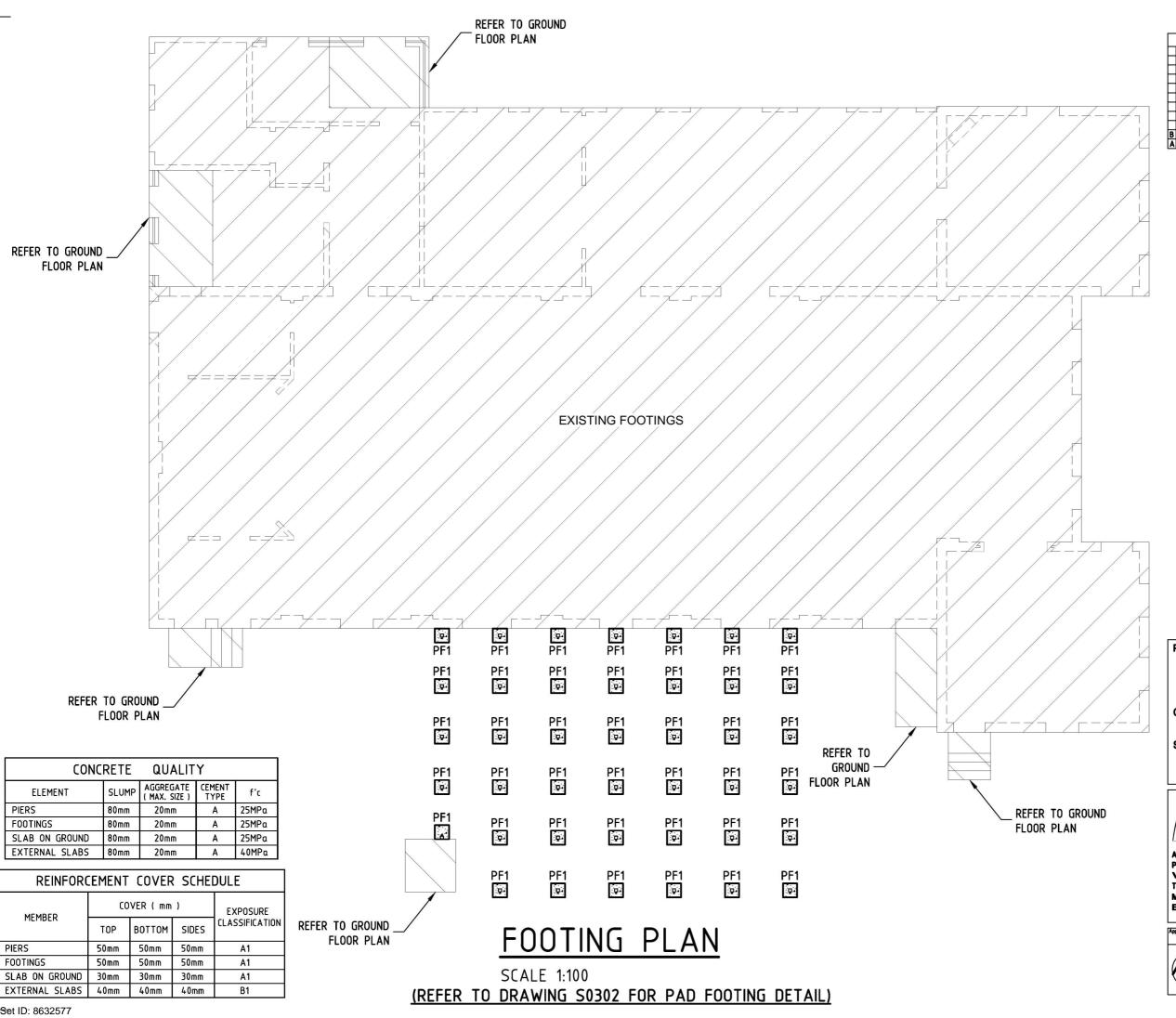


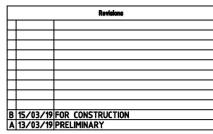
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Project PROPOSED ALTERATIONS AND ADDITIONS AT

> 1158-1160 CASTLEREAGH ROAD CASTLEREAGH

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Sheet Title

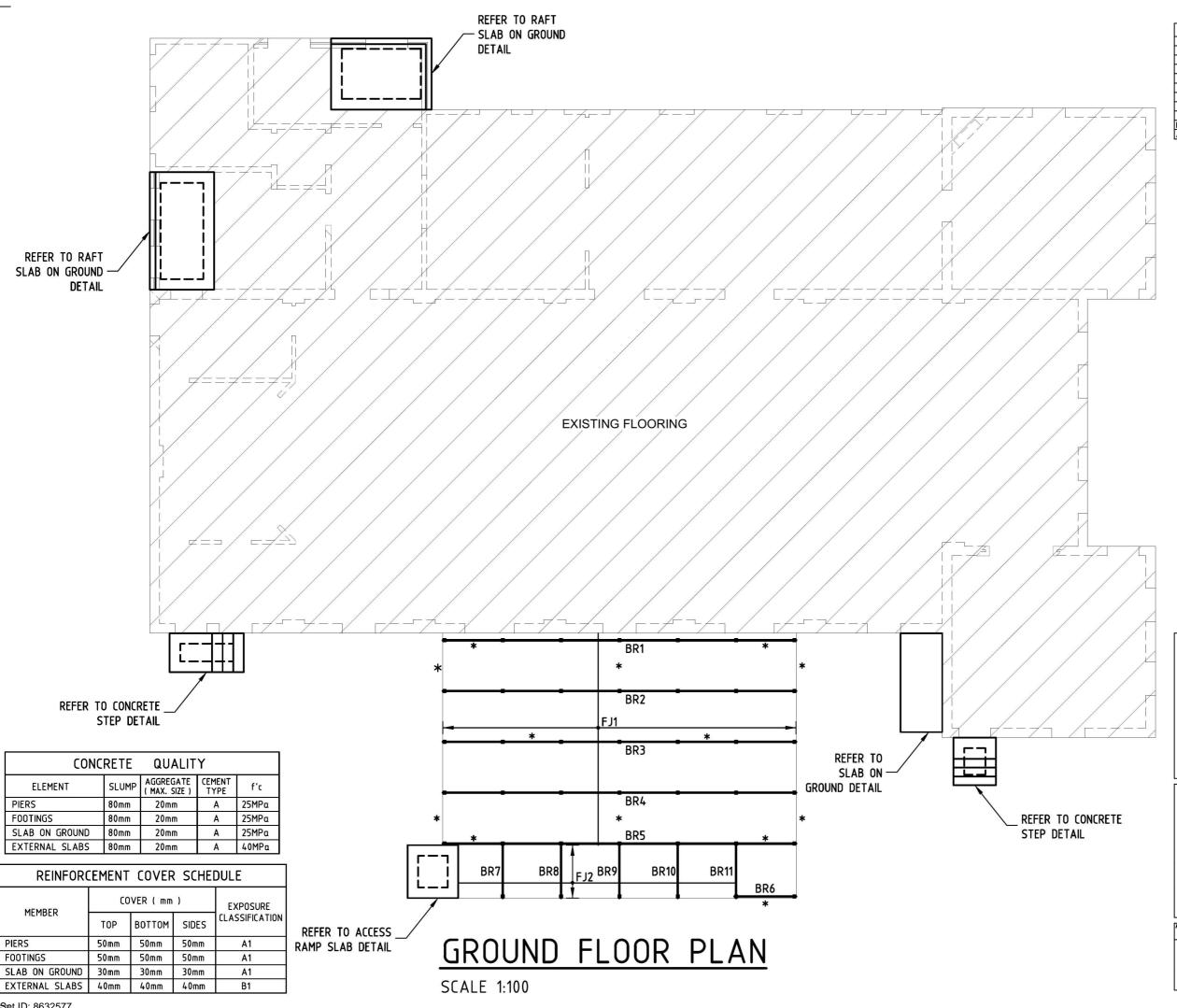
FOOTING PLAN



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North	Designed	Drawn		Date	ons) MIEAus
	A.J.P.	A.J.P		13/	03/19
	Checked A.J.P.		cale 1:100	@ A3	U.N.O.
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Revisions

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

Project PROPOSED ALTERATIONS
AND ADDITIONS AT

1158-1160 CASTLEREAGH ROAD CASTLEREAGH

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Sheet Title

GROUND FLOOR PLAN



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

Approved

Anthony Pelicano
BE Picne) MEZAST

Anthony Pelicano
BE Picne) MEZAST

AJ.P. Date
13/03/19

Checked
A.J.P. Scale
A.J.P. 1:100 A3 U.N.O.
Job No
19PE1839

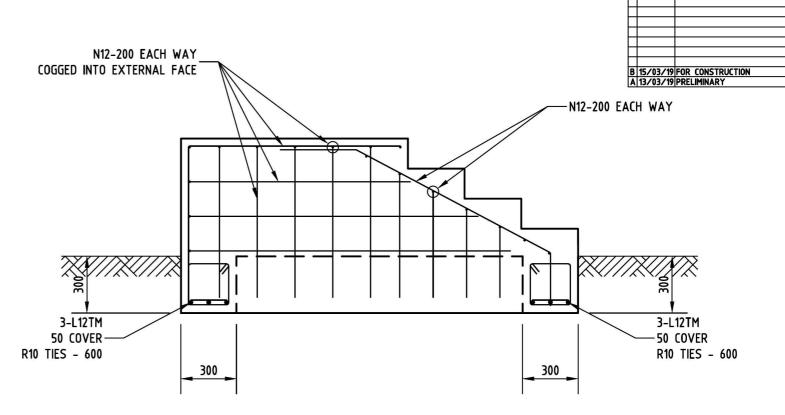
Drawing No
19PE1839

Document Set ID: 8632577 Version: 1, Version Date: 27/03/2019

	GROUND	FLOOR MEMB	ER SCHEDUL	E
MARK	MEMBER	MATERIAL	SIZE	GRADE
FJ1	FLOOR JOIST	STEEL	75x50x1.6 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
FJ2	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	DURAGAL PLUS C450L0
BR11	BEARER	STEEL	150x50x2.0 RHS AT 450 CENTRES	DURAGAL PLUS C450L0
*	BRACING	STEEL	M12 THREADED ROD	250

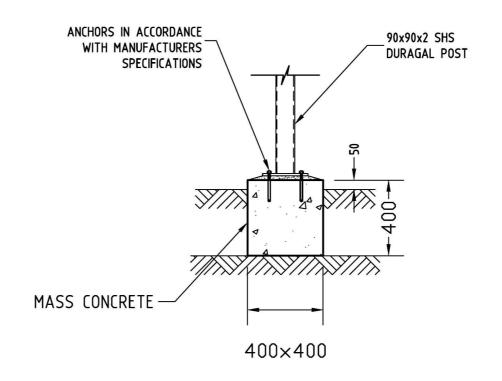
GROUND FLOOR NOTES:

- 1. DURAGAL FLOOR SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 2. FLOOR JOISTS AND BEARERS DESIGNED TO SUPPORT FLOOR LOADS ONLY AND NOT DESIGNED TO SUPPORT ANY ROOF LOADS OR LOAD BEARING WALL LOADS.
- 3. DURAGAL FLOOR SYSTEM DESIGN BASED ON THE USE OF MAXI DECK BOARDS FLOORING MATERIAL WITH NO CEILING MATERIAL.
- 4. ALL FITTINGS, JOINERS, BRACING AND ACCESSORIES TO BE SUPPLIED BY DURAGAL.



CONCRETE STEP DETAIL

SCALE 1:20



PAD FOOTING 'PF1' DETAIL

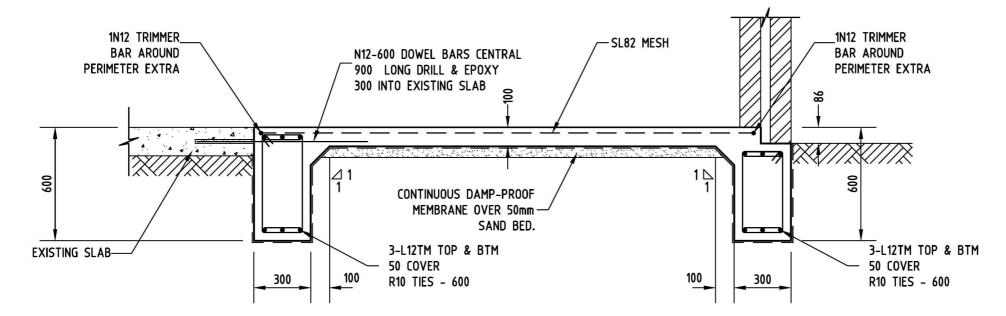
Project PROPOSED ALTERATIONS AND ADDITIONS AT 1158-1160 CASTLEREAGH ROAD CASTLEREAGH Client PENRITH CITY COUNCIL **GROUND FLOOR** MEMBER SCHEDULE



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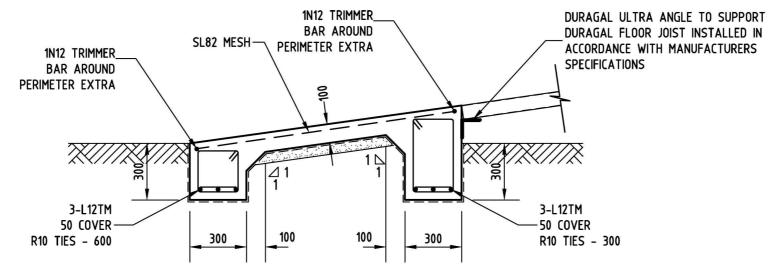
E-mail: engineers@peleng.com.au

Approved				Pellicano s) MIEAust
North	Designed A.J.P.	Drawn A.J.P.	Date 13/0	3/19
	Checked A.J.P.	Scale 1:100	@ A3 (J.N.O.
\mathcal{L}	Job No 19PE1839	Drawing S	No 0302	Issue B



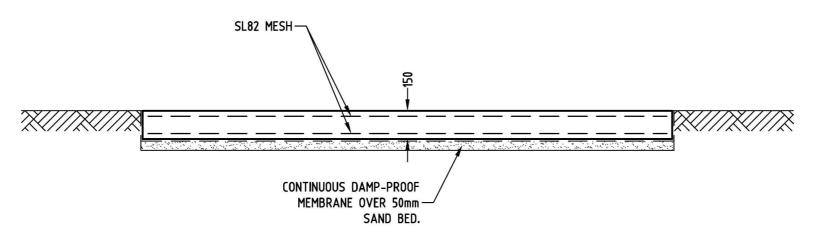
RAFT SLAB ON GROUND DETAIL

SCALE 1:20



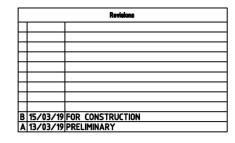
ACCESS RAMP SLAB DETAIL

SCALE 1:20



AC ENCLOSURE - SLAB ON GROUND DETAIL

SCALE 1:20



Project PROPOSED ALTERATIONS
AND ADDITIONS AT

1158-1160 CASTLEREAGH ROAD CASTLEREAGH

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Sheet Title

GROUND FLOOR DETAILS



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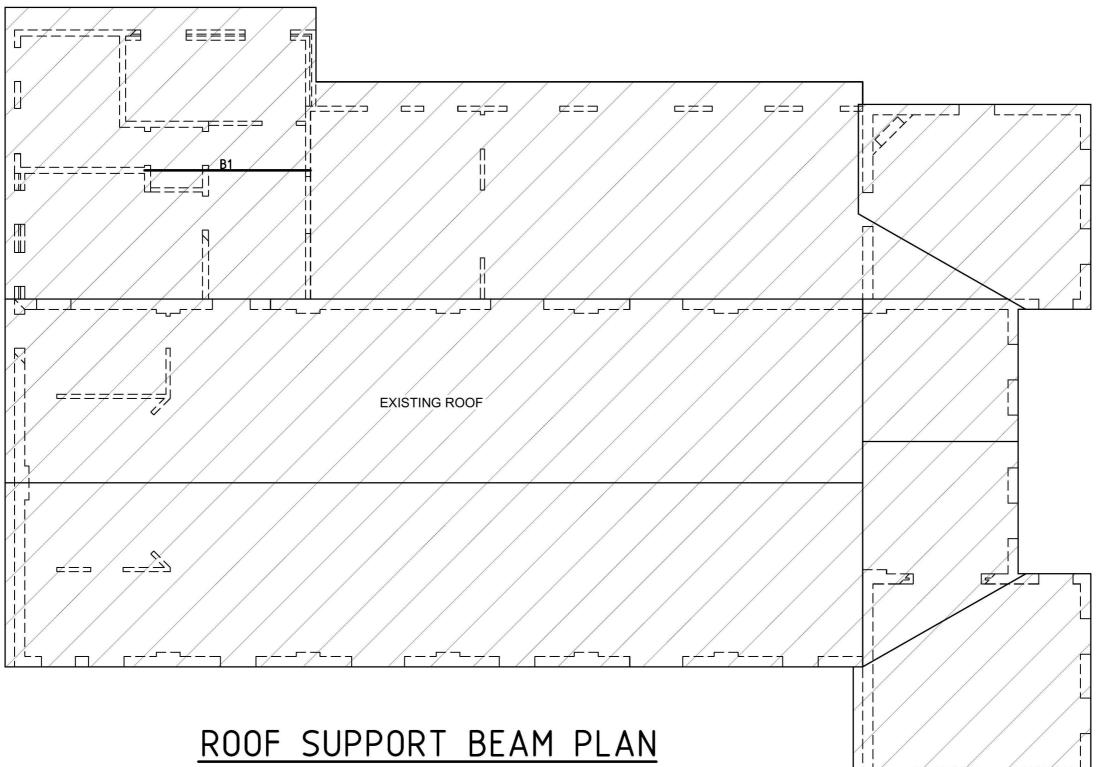
Anthony Pellicano B.E Honel MEAust

North Designed A.J.P. Date

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Project PROPOSED ALTERATIONS
AND ADDITIONS AT
1158-1160 CASTLEREAGH ROAD
CASTLEREAGH

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

Sheet Title

ROOF SUPPORT BEAM PLAN



PelEng CONSULTING ENGINEERS

CONSULTING ENGINEERS
Structural & Civil Engineers

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ROOF SUPPORT BEAM NOTES:

MARK

B4

SCALE 1:100

MEMBER

BEAM

- 1. ALL TIMBER FRAMEWORK, BLOCKING, BRACING & HOLD DOWN REQUIREMENTS TO BE IN ACCORDANCE WITH AS1684 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
- 2. HYSPAN LVL TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

MATERIAL

TIMBER

3. THE ACTUAL NEED FOR BEAM B1 AND FINAL ROOF SUPPORT BEAM LAYOUT TO BE DETERMINED ONCE THE EXISTING STRUCTURE HAS BEEN EXPOSED AND INSPECTED BY THE ENGINEER.

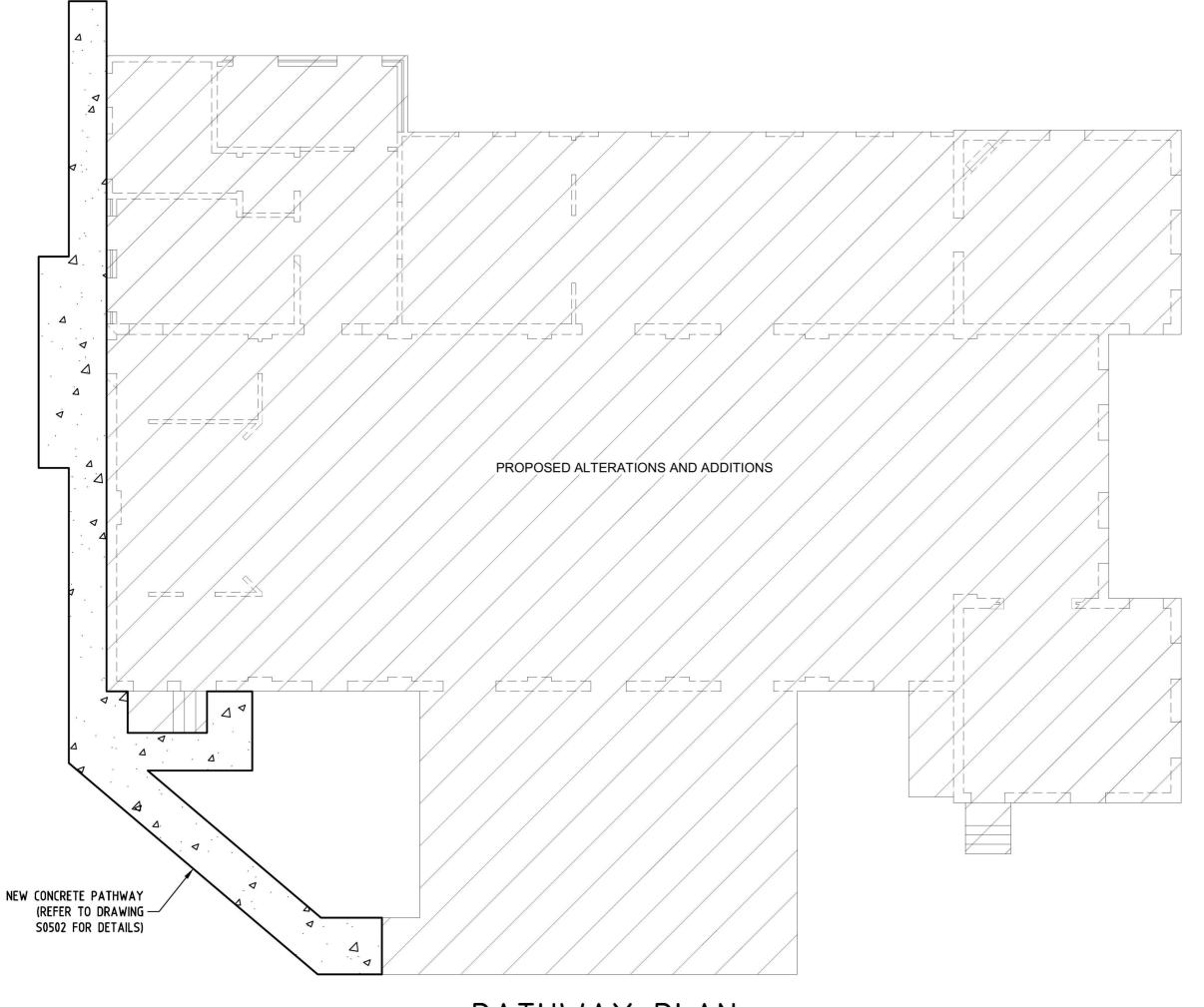
ROOF SUPPORT BEAM MEMBER SCHEDULE

SIZE

200x45 CONTINUOUS

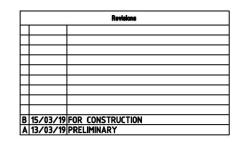
GRADE

HYSPAN LVL



PATHWAY PLAN

SCALE 1:100



Project PROPOSED ALTERATIONS AND ADDITIONS AT

1158-1160 CASTLEREAGH ROAD CASTLEREAGH

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Sheet Title

PATHWAY PLAN



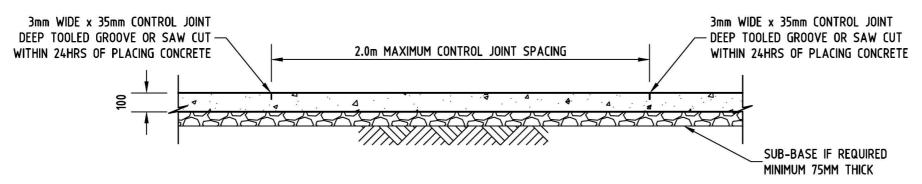
PelEng consulting engineers Structural & Civil Engineers

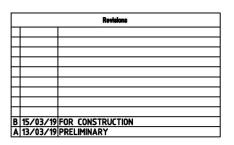
Addlyn Pty. Limited A.C.N. 073 412 772 T/A PelEng P O Box 583, Freshwater, N.S.W., Australia 2096 Web: www.peleng.com.au Telephone: (02) 9939 2786, Facsimile: (02) 9938 1648 Mobile: 0418 264 265

E-mail: engineers@peleng.com.au

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

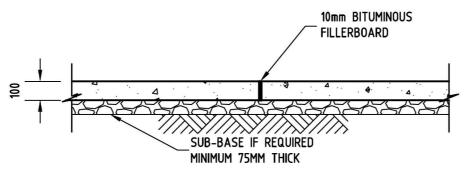
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CONTROL JOINT DETAIL

SCALE 1:20



EXPANSION JOINT DETAIL

SCALE 1:20

CONC	RETE	QUALIT	Υ	
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	f'c
FOOTINGS	80mm	20mm	Α	25MPa
PATHWAY	80mm	20mm	Α	25MPa

CONCRETE PATHWAY NOTES:

MINIMUM SLAB THICKNESS FOR CONCRETE PATHWAY TO BE 100mm.

CONTROL JOINTS SHALL BE CONSTRUCTED IN THE PATHWAY AT INTERVALS MATCHING THE WIDTH OF THE PATHWAY OR AT A MAXIMUM SPACING OF 2.0m - REFER TO DETAIL.

CONTROL JOINTS ALSO REQUIRED AT ALL RE-ENTRANT CORNERS.

CONCRETE STRENGTH f'c = 25 MPa.

IF A SUB-BASE IS REQUIRED, THE SUB-BASE THICKNESS SHOULD NOT BE LESS THAN 75mm. ISOLATION JOINTS TO BE PROVIDED WHERE THE PATHWAY ADJOINS A BUILDING OR RIGID STRUCTURE. EXPANSION JOINTS 10mm IN WIDTH SHALL BE PLACED AT EVERY THIRD CONTROL JOINT OR AT A MAXIMUM SPACING OF 6.0m - REFER TO DETAIL.

CONCRETE PATHWAY TO BE FOUNDED ON NATURAL GROUND.

Project PROPOSED ALTERATIONS

AND ADDITIONS AT

1158-1160 CASTLEREAGH ROAD

CASTLEREAGH

Client PENRITH CITY COUNCIL

Sheet Title

PATHWAY DETAILS



Addlyn Pty. Limited A.C.N. 073 412 772 T/A PelEng P O Box 583, Freshwater, N.S.W., Australia 2096 Web: www.peleng.com.au Telephone: (02) 9939 2786, Facsimile: (02) 9938 1648 Mobile: 0418 264 265

Mobile: 0418 264 265

E-mail: engineers@peleng.com.au

Approved				Pellicano ns) MEAus
North	Designed A.J.P.	Drawn A.J.P.	Date 13/	03/19
	Checked A.J.P.	Scale 1:100	@ A3	U.N.O.
\mathcal{U}	Job No 19PE1839	Drawing S	No 0502	Issue B

ISSUE FOR TENDER - 03/2019

ARCHITECTURAL DRAWINGS

JUSTIN LONG DESIGN E: JUSTIN@JLADESIGN.COM.AU

TITLE PAGE, GENERAL NOTES & SCHEDULE OF EXTERNAL FINISHES PROPOSED GREATER SITE PLAN

EXISTING GROUND FLOOR PLAN PROPOSED GROUND FLOOR PLAN

PROPOSED ROOF & STORMWATER DRAINAGE PLAN

PROPOSED ELEVATIONS

PROPOSED ELEVATIONS PROPOSED SECTIONS

DOOR & WINDOW SCHEDULE DOOR & WINDOW SCHEDULE

AC ENCLOSURE, RAMP & BALUSTRADE DETAILS

CLEANER CUPBOARD DETAILS

CLEANER CUPBOARD DETAILS MALE TOILET DETAILS

MALE TOILET DETAILS MALE TOILET DETAILS MALE TOILET DETAILS

STRUCTURAL ENGINEER DRAWINGS

PELENG P: 02 9939 2786 E: ENGINEERS@PELENG.COM.AU

S0101-A CONSTRUCTION NOTES (SHEET 1 OF 2) S0102-A CONSTRUCTION NOTES (SHEET 2 OF 2)

S0201-A FOOTING PLAN

GROUND FLOOR PLAN

S0302-A GROUND FLOOR MEMBER SCHEDULE

S0303-A GROUND FLOOR DETAILS ROOF SUPPORT BEAM PLAN S0501-A PATHWAY PLAN PATHWAY DETAILS S0502-A

MALE TOILET DETAILS

A20

A21

A23

A24

A27

A29

A.30

FEMALE TOILET DETAILS

ACCESS TOILET DETAILS

ACCESS TOILET DETAILS ACCESS TOILET DETAILS

ACCESS TOILET DETAILS

DEMOLITION WORK PLAN

PROPOSED RC & ELECTRICAL PLAN

EROSION & SEDIMENT CONTROL PLAN

FOYER DETAILS

FOYER DETAILS

FOYER DETAILS

COMPLIANCE NOTES

STANDARD OF WORK & REGULATIONS ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH:

BUILDING CODE OF AUSTRALIA

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 METRO WASTE BOARD GUIDE.

SITE MANAGEMENT

NO BUILDING ACTIVITIES ON COUNCIL

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

- 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

TIMBER IS TO BE FROM SUSTAINABLE SOURCES (PLANTATION RECYCLED TIMBERS) AS FOLLOWS:

ALL FRAMING SHOULD BE IN PLANTATION RADIATA PINE OR NZ - ALL DOUGLAS FUR ALL STRUCTURAL TIMBER SHALL

PLANTATION GROWN GLUE LAMINATED TIMBER ALL FLOORING SHALL BE FROM

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

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

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 381

FACILITIES (HEALT & AMENITY)

ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING: BCA PART 3.8.3

- BCA PAKI - AS 1668.2

HYDRAULICS

ALL TAPWARE & PLUMBING FIXTURES SHALL BE AAA RATED. HOT WATER SERVICE PIPES SHALL BE PROVIDED WITH INSULATION ACCORDANCE WITH:

- BCA PARI - AS 3500 BCA PART 3.12.1

SCHEDULE OF EXTERNAL FINISHES

AREA	FINISH	COMMENT	IMAGE
BRICKWORK	RECYCLED COMMON BRICKWORK TO MATCH THE EXISTING, PAINT FINISH	COLOUR: OFF WHITE TO MATCH EXISTING OR PREVIOUSLY USED HERITAGE COLOUR UPON IDENTIFICATION ON SITE, TBC	
EXTERNAL CLADDING	SELECTED HORIZONTAL TIMBER CLADDING 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	
DOOR AWNING	TIMBER FRAMED 1200MM AWNING WITH ZINCALUME ROOFING OVER TO NORTHERN SIDE DOUBLE DOORS TO MATCH THE AWNINGS TO THE SOUTHERN SIDE DOUBLE DOORS	FRAME COLOUR: TO MATCH EXISTING ROOF COLOUR: ZINCALUME	
AC UNIT LOUVRE ENCLOSURE	CAPRAL ALUMINIUM EXTRUDED LOUVRE ENCLOSURE	COLOUR: COLORBOND 'PAPERBARK'	

GENERAL NOTES

- REFER ALL QUERIES & DISCREPANCIES TO THE PROJECT MANAGER, ALL MEASUREMENTS ARE IN MM UNLESS OTHERWISE NOTED.

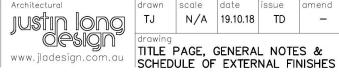
1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW

ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

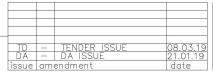
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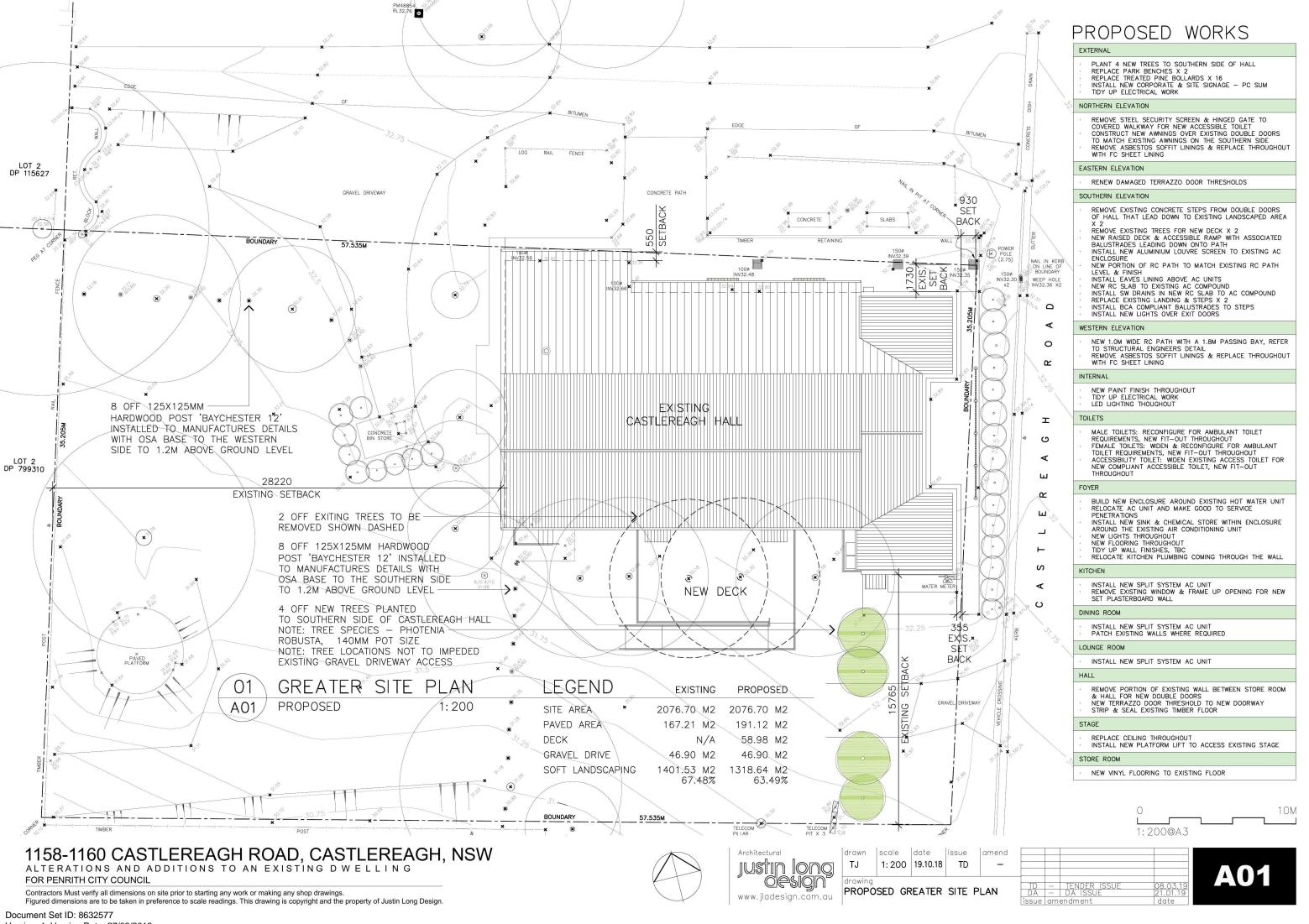
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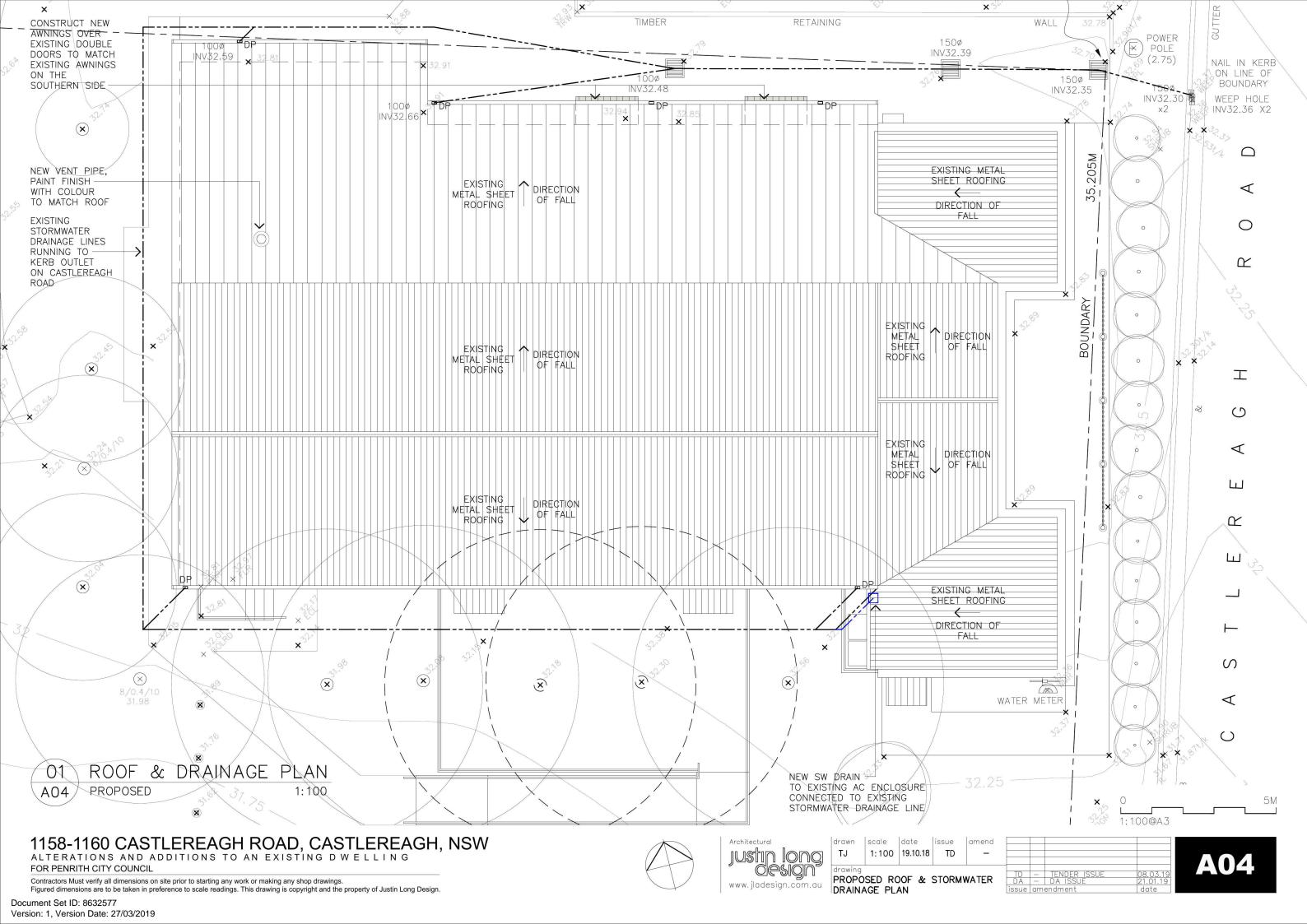


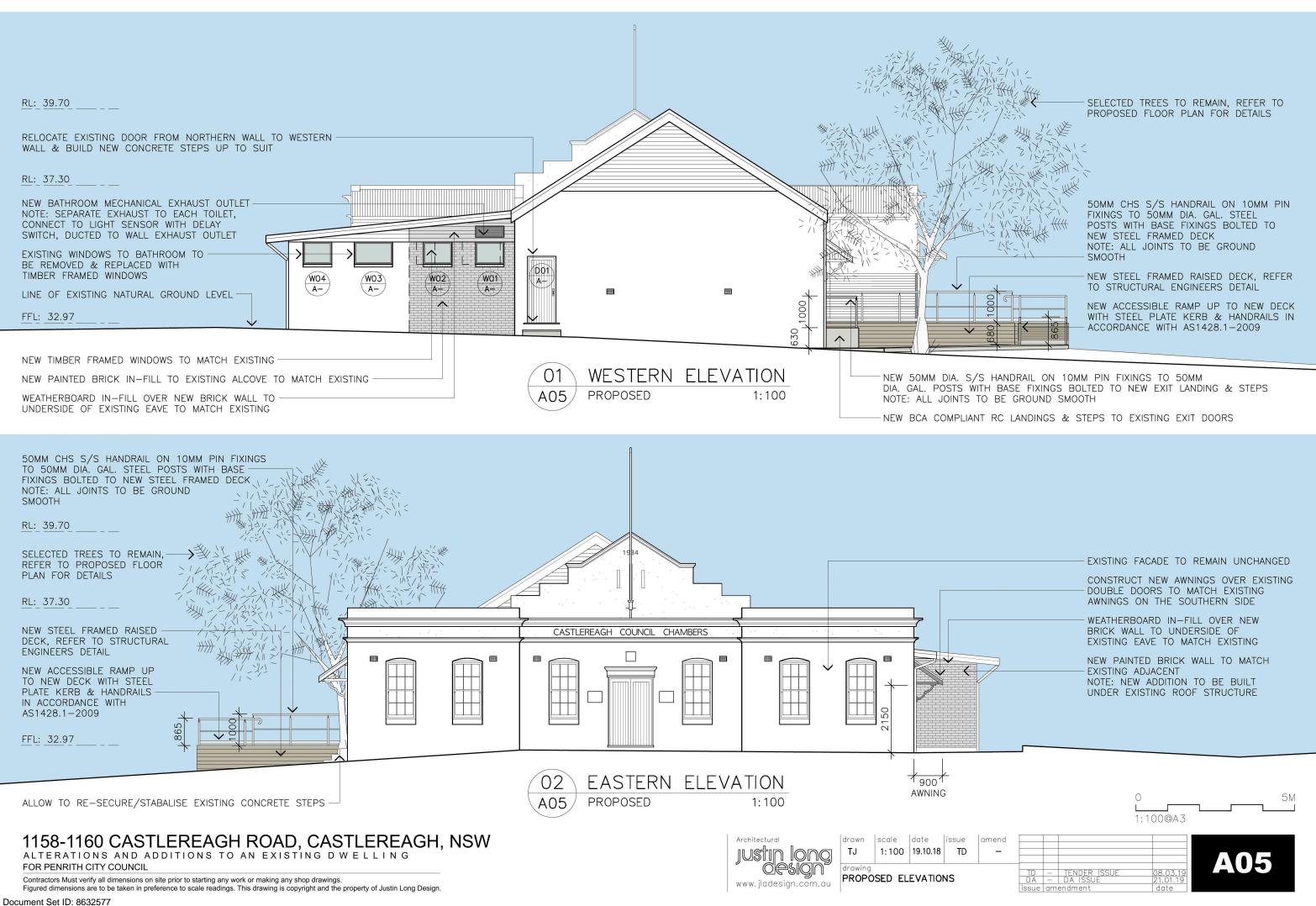




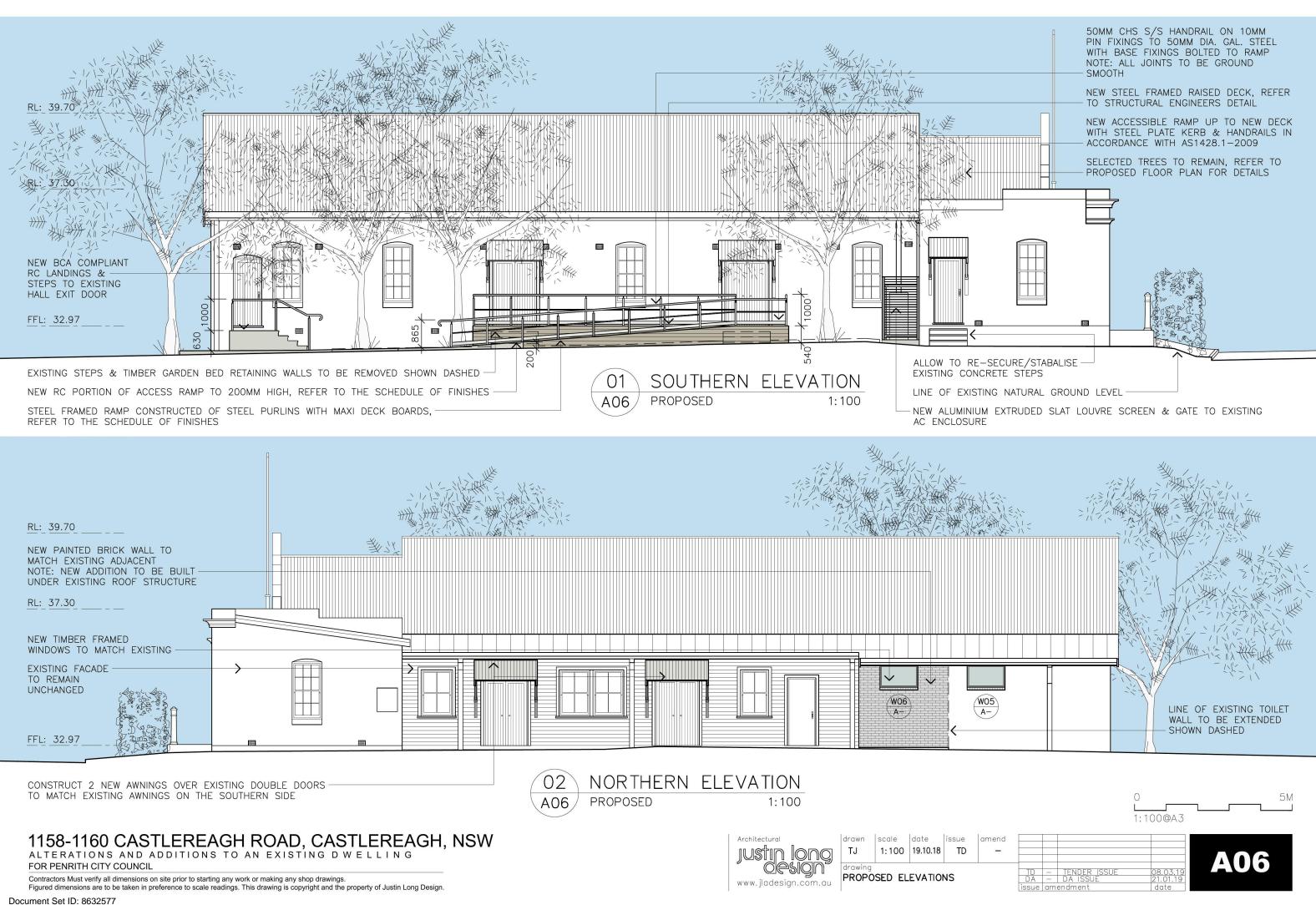


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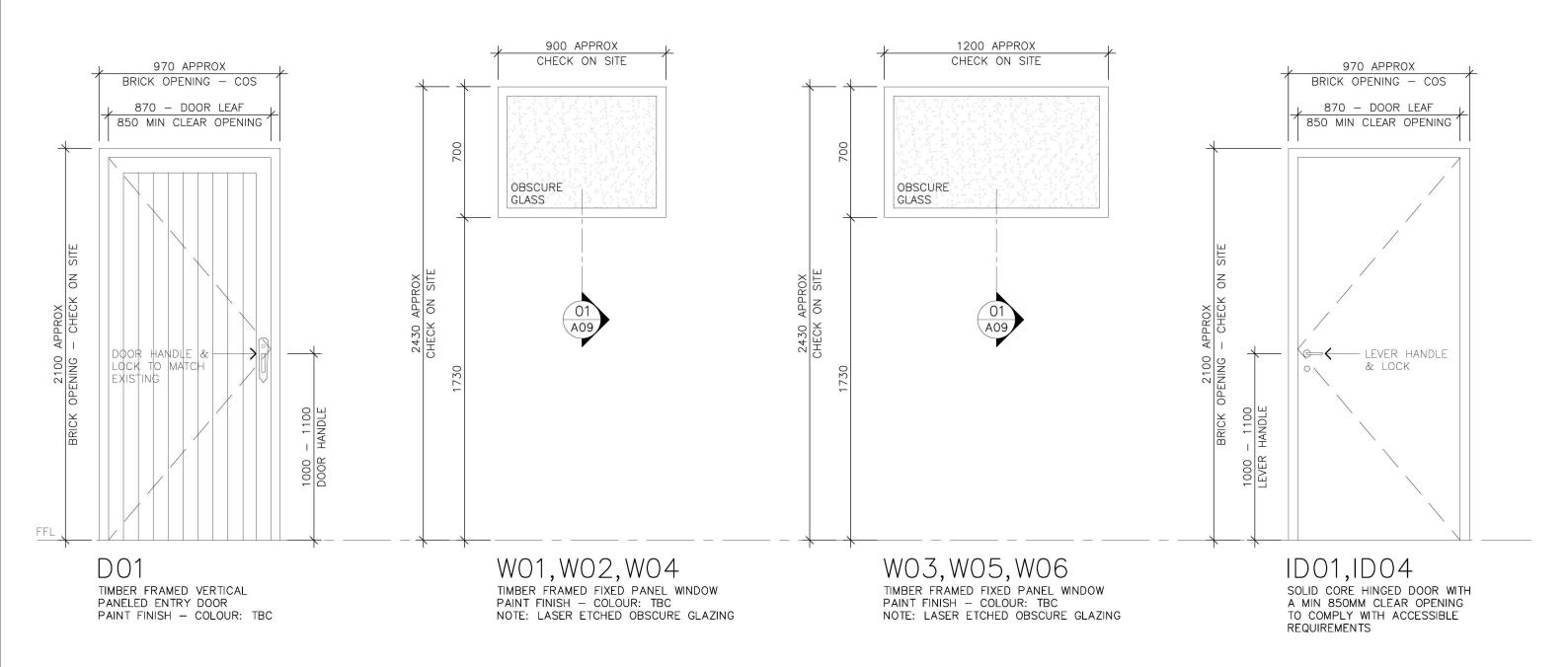
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HARDWARE

- REFER TO DOOR HARDWARE SCHEDULE FOR ALL DOOR HARDWARE

- ALL DOORS & WINDOWS ARE VIEWED FROM OUTSIDE
- DIMENSIONS SHOWN ARE ACTUAL FRAME SIZES, CONFIRM DIMENSIONS ON SITE
- ALL GLAZING TO BE SAFETY GLASS (LAMINATED OR TOUGHENED) MIN. 6.38MM IN ACCORDANCE WITH A.S 1288-1994: GLASS INSTALLATION CODE & THE BCA
- VERIFY INTERNAL FINISHES TO WINDOW SURROUNDS PRIOR TO BUILDING IN OF ANY FRAMES

 ALL DOORS & WINDOWS TO BE DELIVERED WITH AN APPROVED FINISH AND ADEQUATELY PROTECTED PRIOR TO AND AFTER INSTALLATION REFER TO INDIVIDUAL WINDOW DESCRIPTION
- WINDOW MANUFACTURER'S NAME AND DETAILS TO BE APPROVED PRIOR TO FABRICATION
- CONFIRM ALL DOOR SILL DETAILS PRIOR TO MANUFACTURE
- ALL HINGES TO BE STAINLESS STEEL BUTTS. ALL SCREWS TO BE STAINLESS STEEL STRAIGHT SLOTTED, WITH POSIDRIVE THREADS

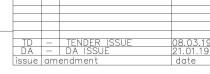


1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

FOR PENRITH CITY COUNCIL

Contractors Must verify all dimensions on site prior to starting any work or making any shop drawings. Figured dimensions are to be taken in preference to scale readings. This drawing is copyright and the property of Justin Long Design. Architectural www.jladesign.com.au SCHEDULE

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DOOR & WINDOW NOTES

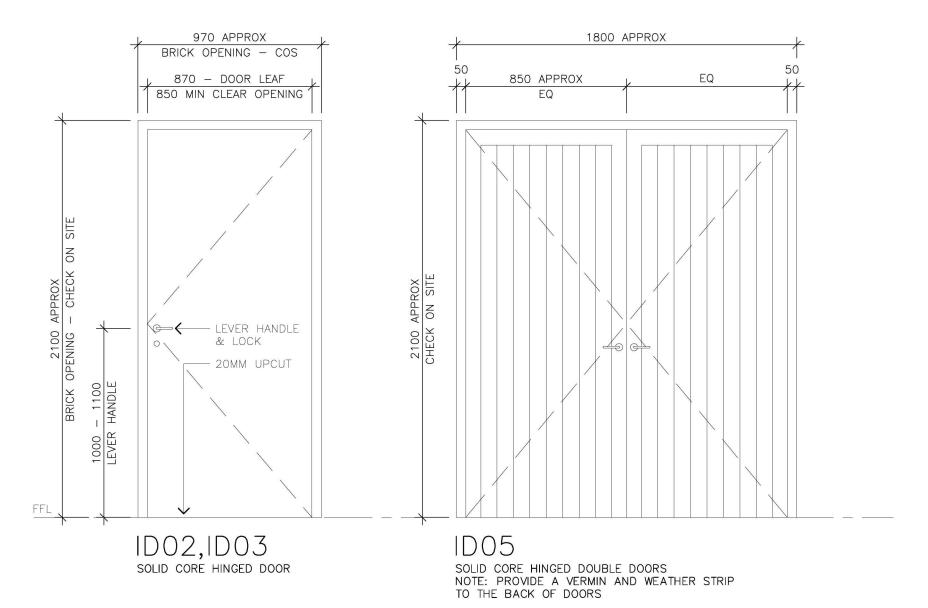
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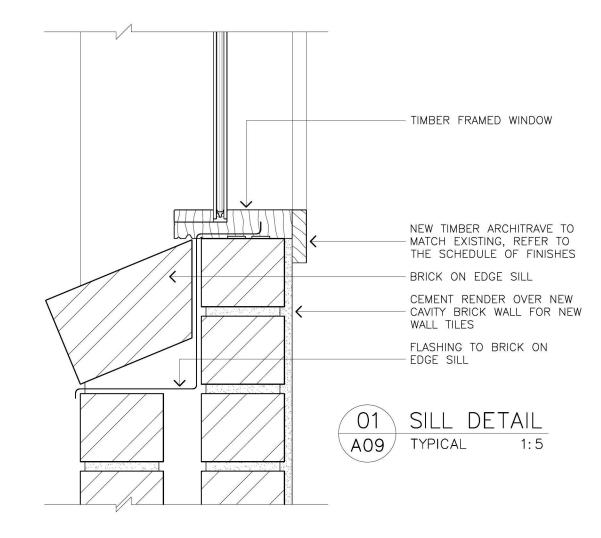
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HARDWARE

- REFER TO DOOR HARDWARE SCHEDULE FOR ALL DOOR HARDWARE





1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

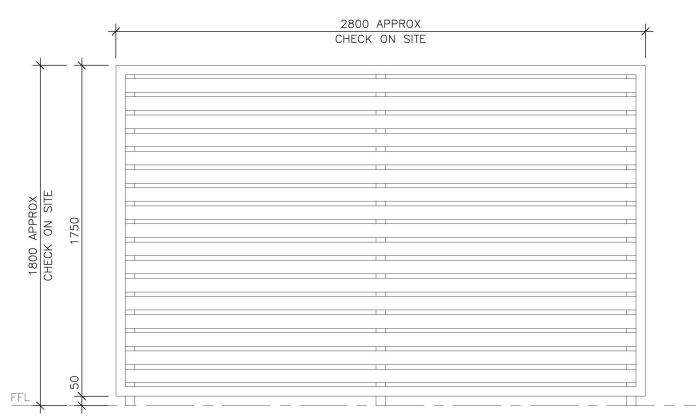
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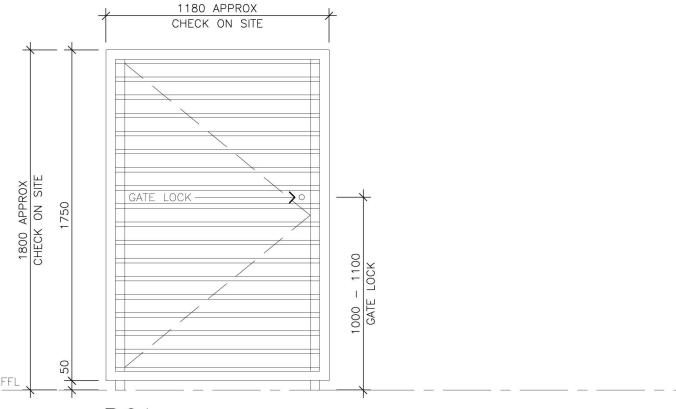
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P01

PROPRIETARY ALUMINUM FRAMED SLAT ENCLOSURE TO EXISTING AIR CONDITIONING UNIT ENCLOSURE FIXED TO VERTICAL STEEL POSTS POWDERCOAT FINISH - COLOUR: TBC



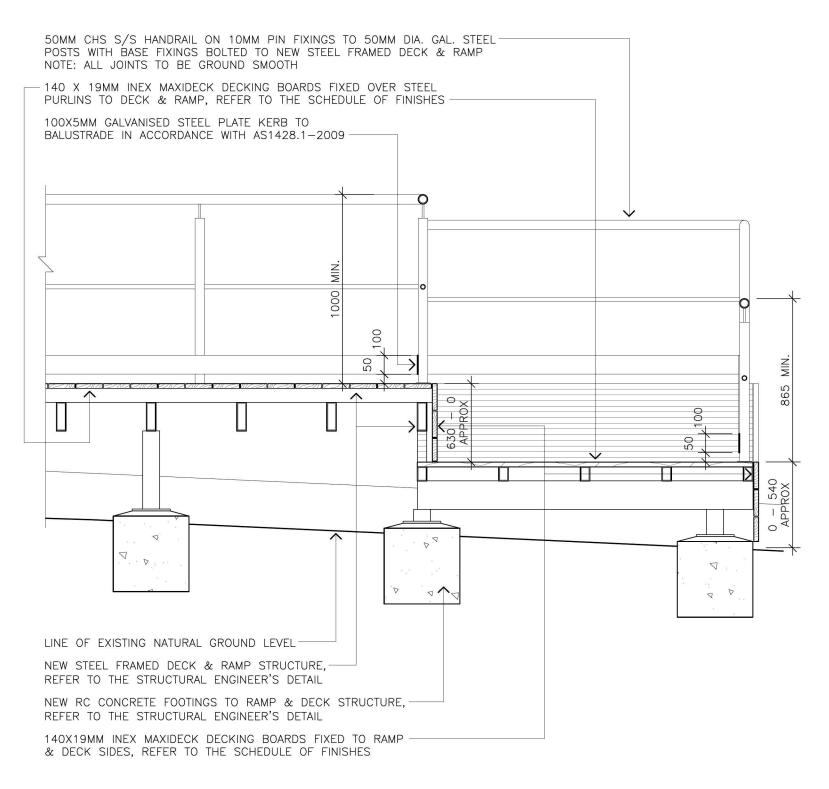
PROPRIETARY ALUMINUM FRAMED SLAT ENCLOSURE & GATE WITH KEYED LOCK TO EXISTING AIR CONDITIONING UNIT ENCLOSURE FIXED TO VERTICAL STEEL POSTS POWDERCOAT FINISH — COLOUR: TBC

1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

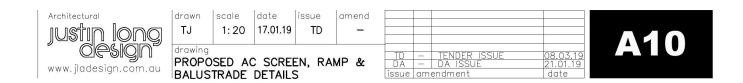
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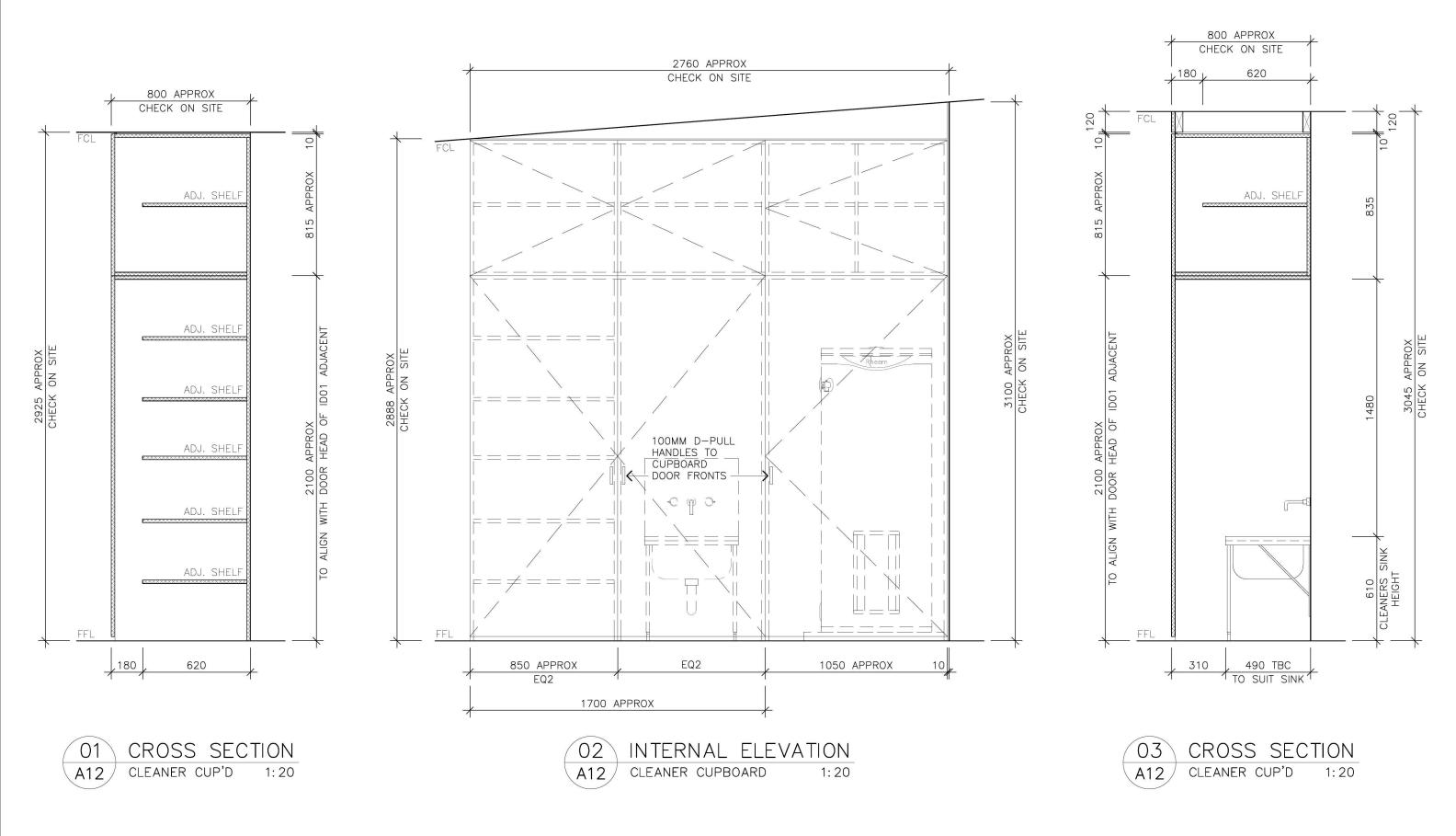
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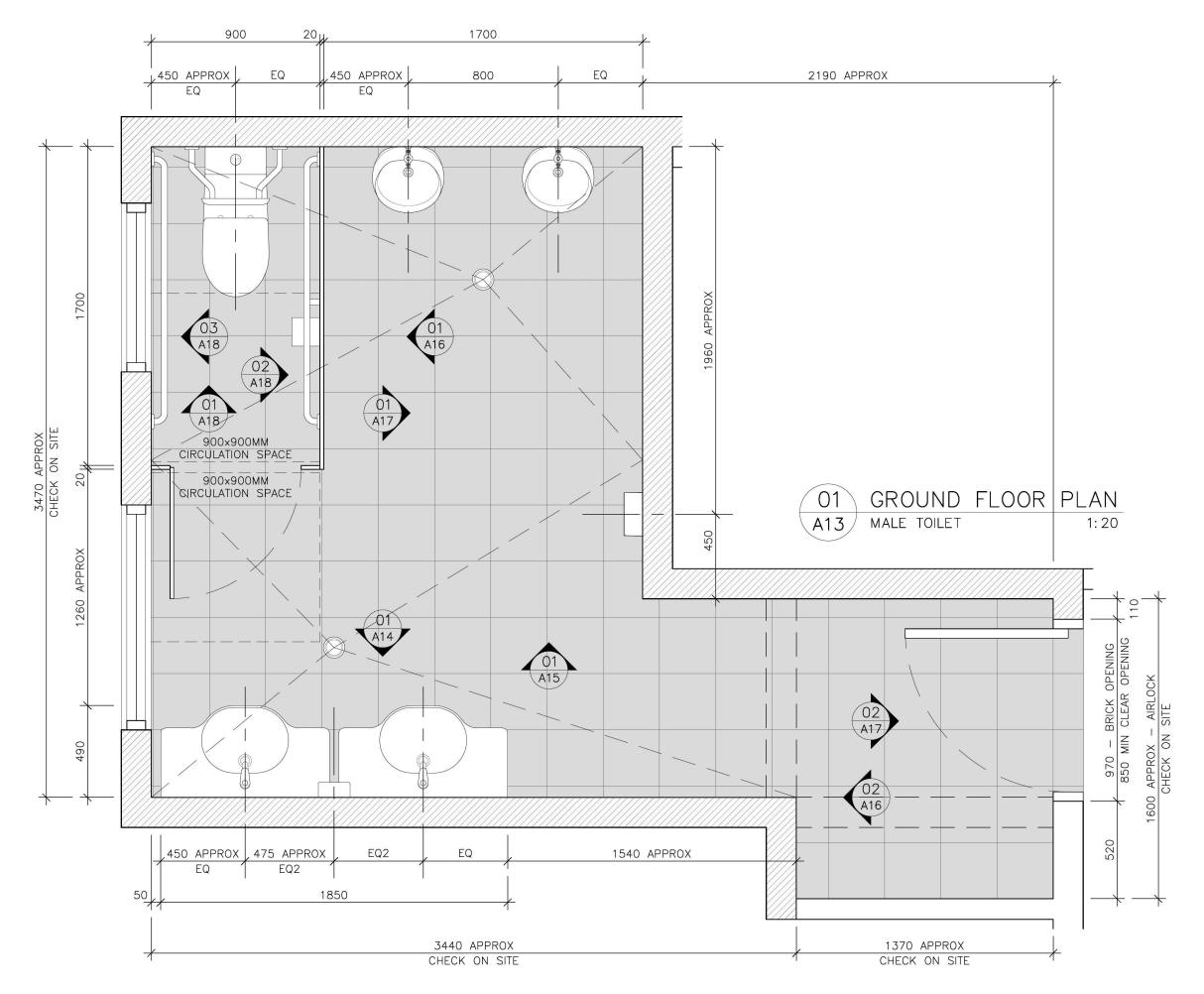
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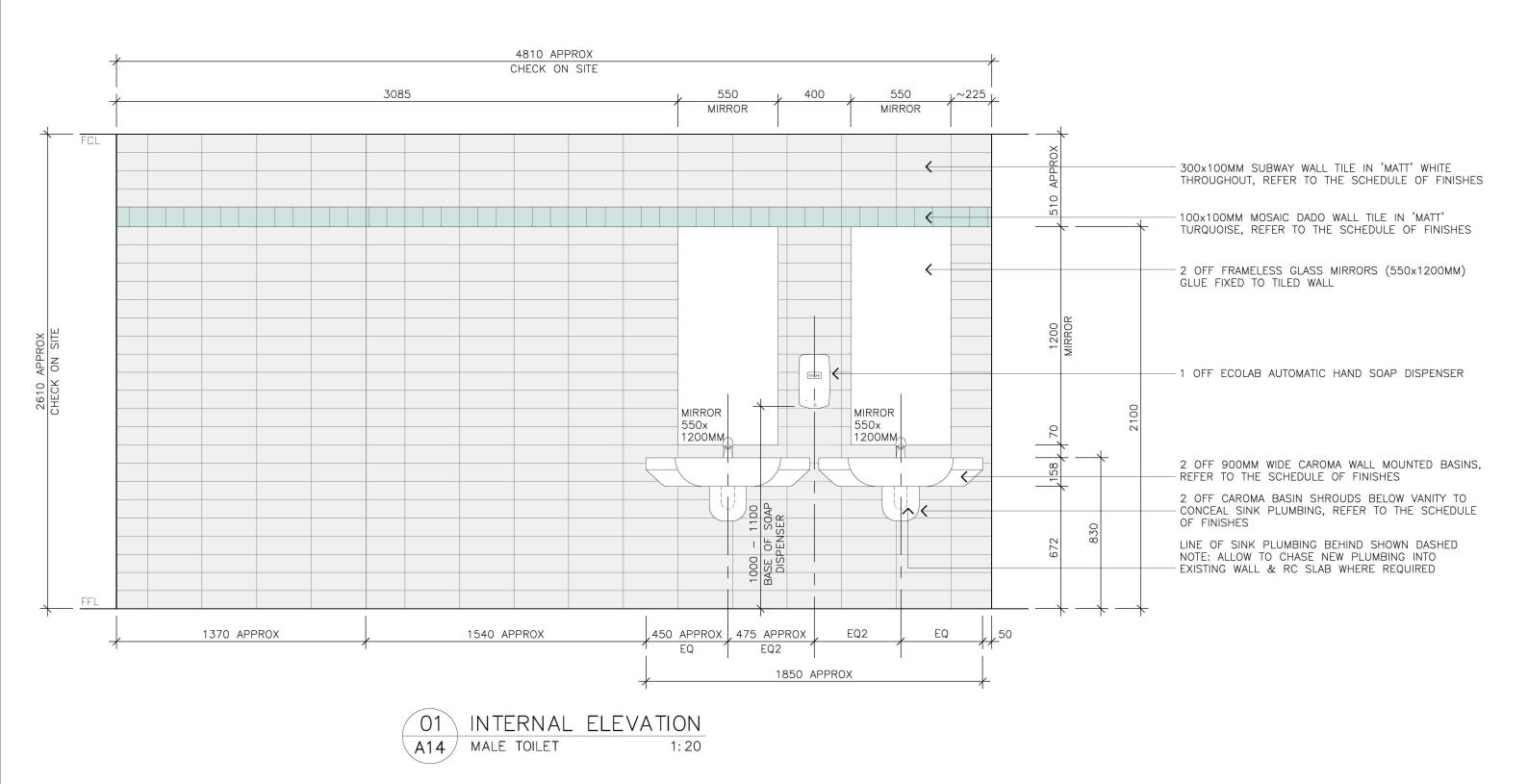


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ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

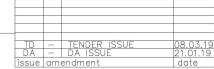
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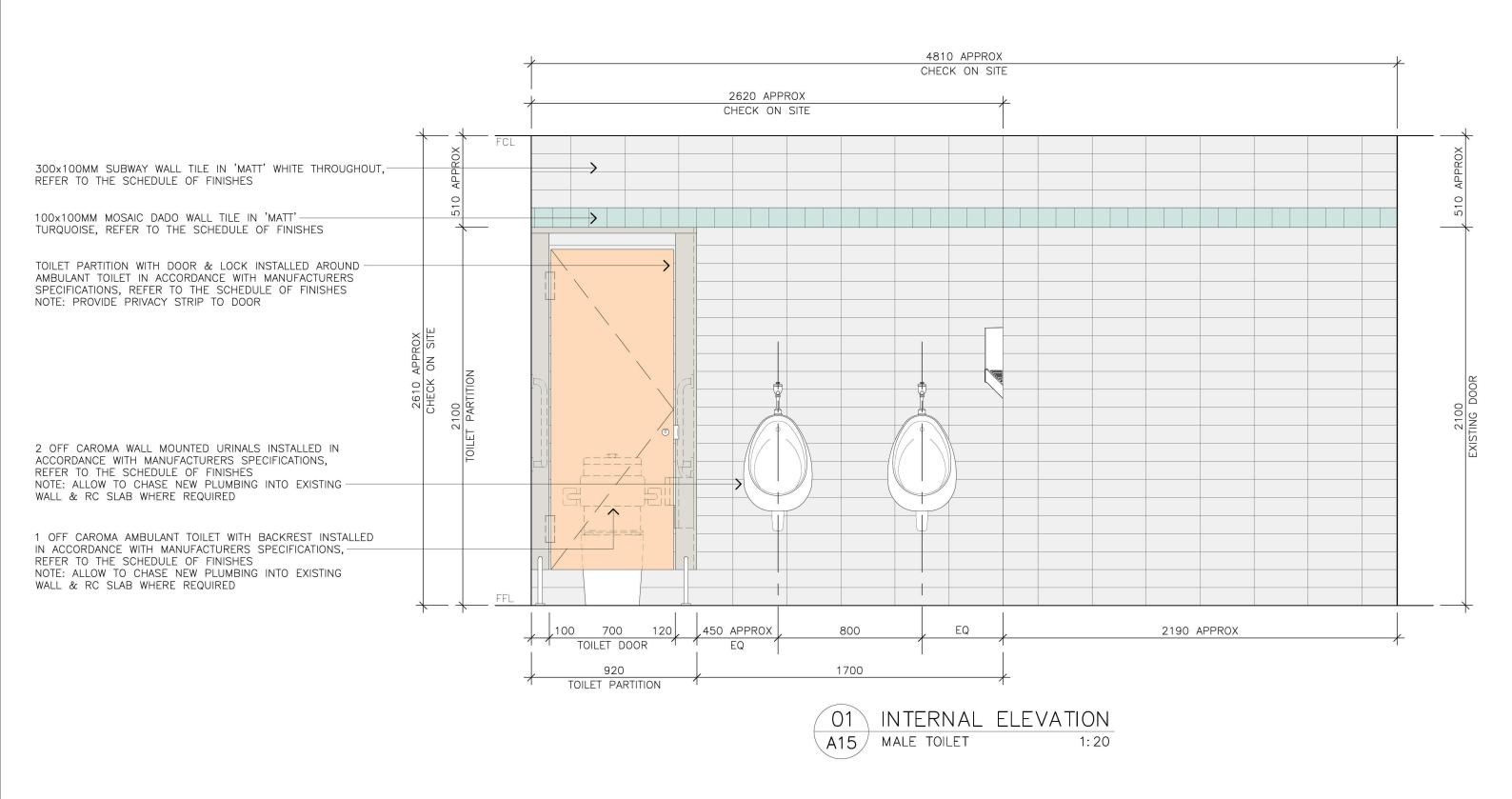
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ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

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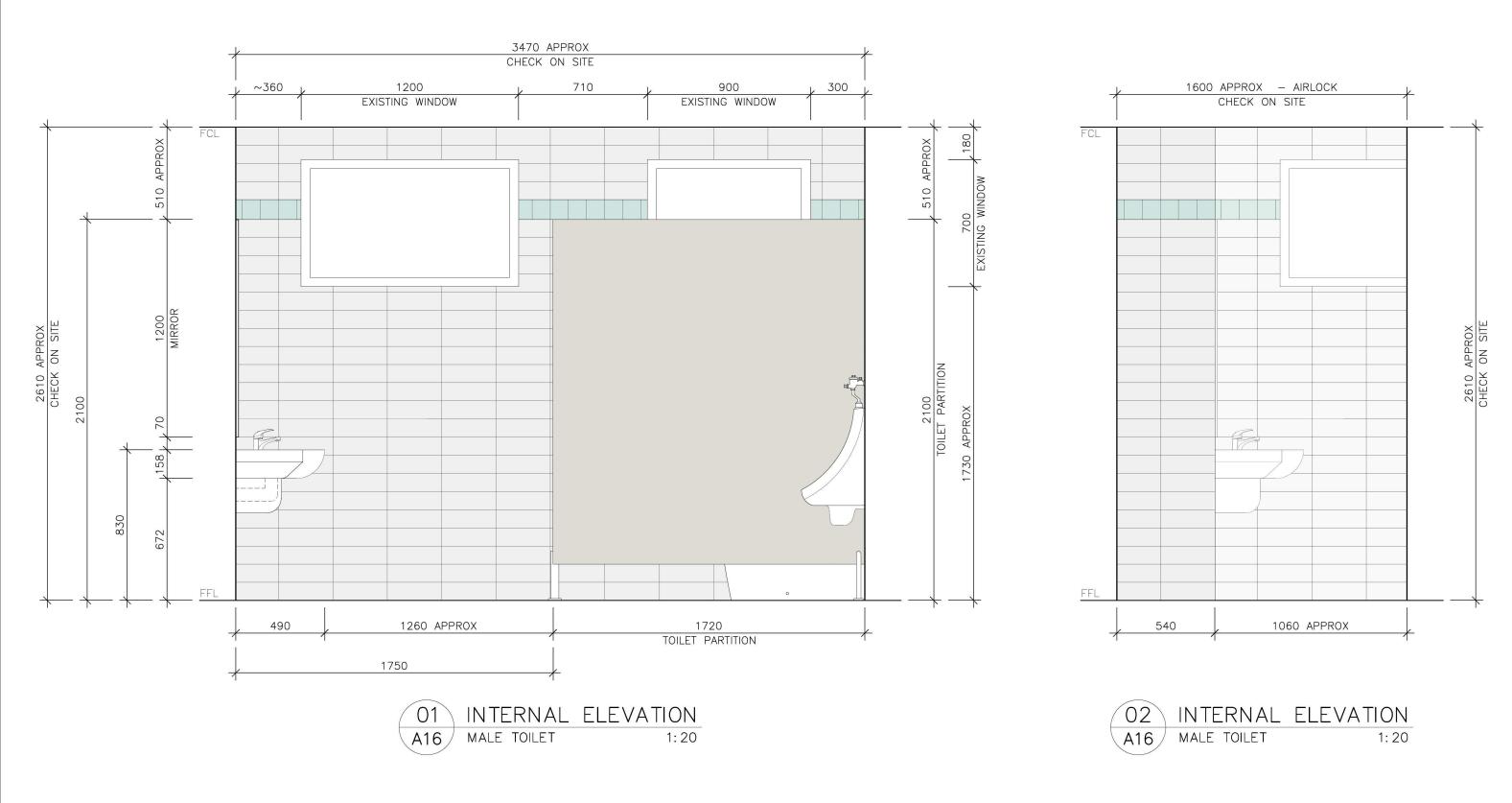
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 PROPOSED MALE TOILET DETAILS

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DA - DA ISSUE 21.01.19
issue amendment date





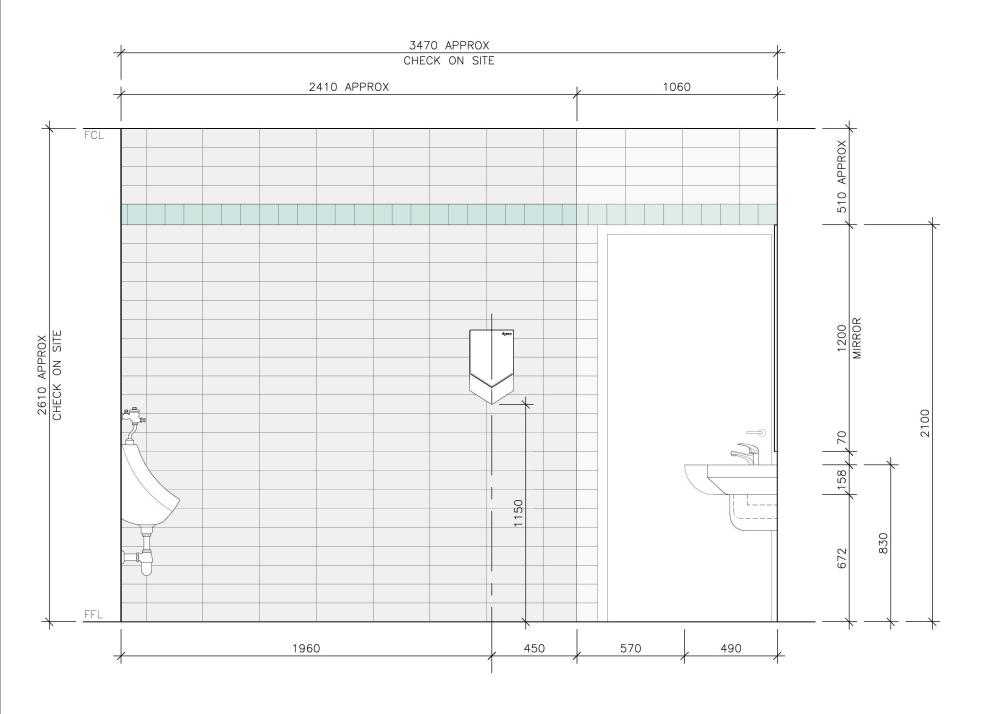
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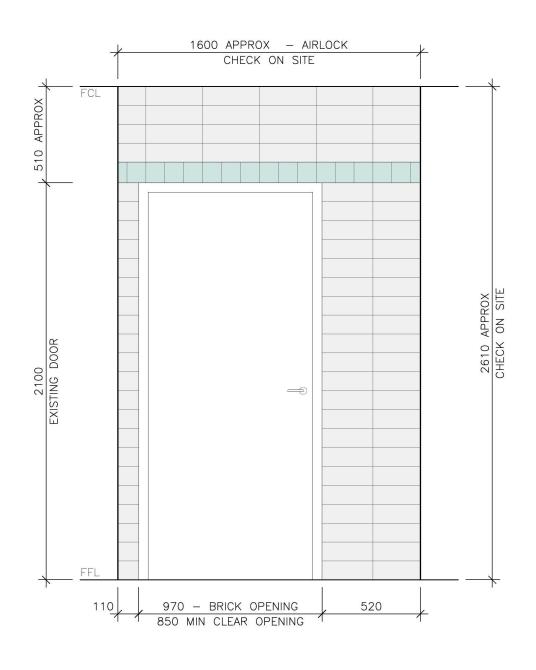
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PROPOSED MALE TOILET DETAILS







INTERNAL ELEVATION A17 MALE TOILET 1:20

INTERNAL ELEVATION MALE TOILET 1:20

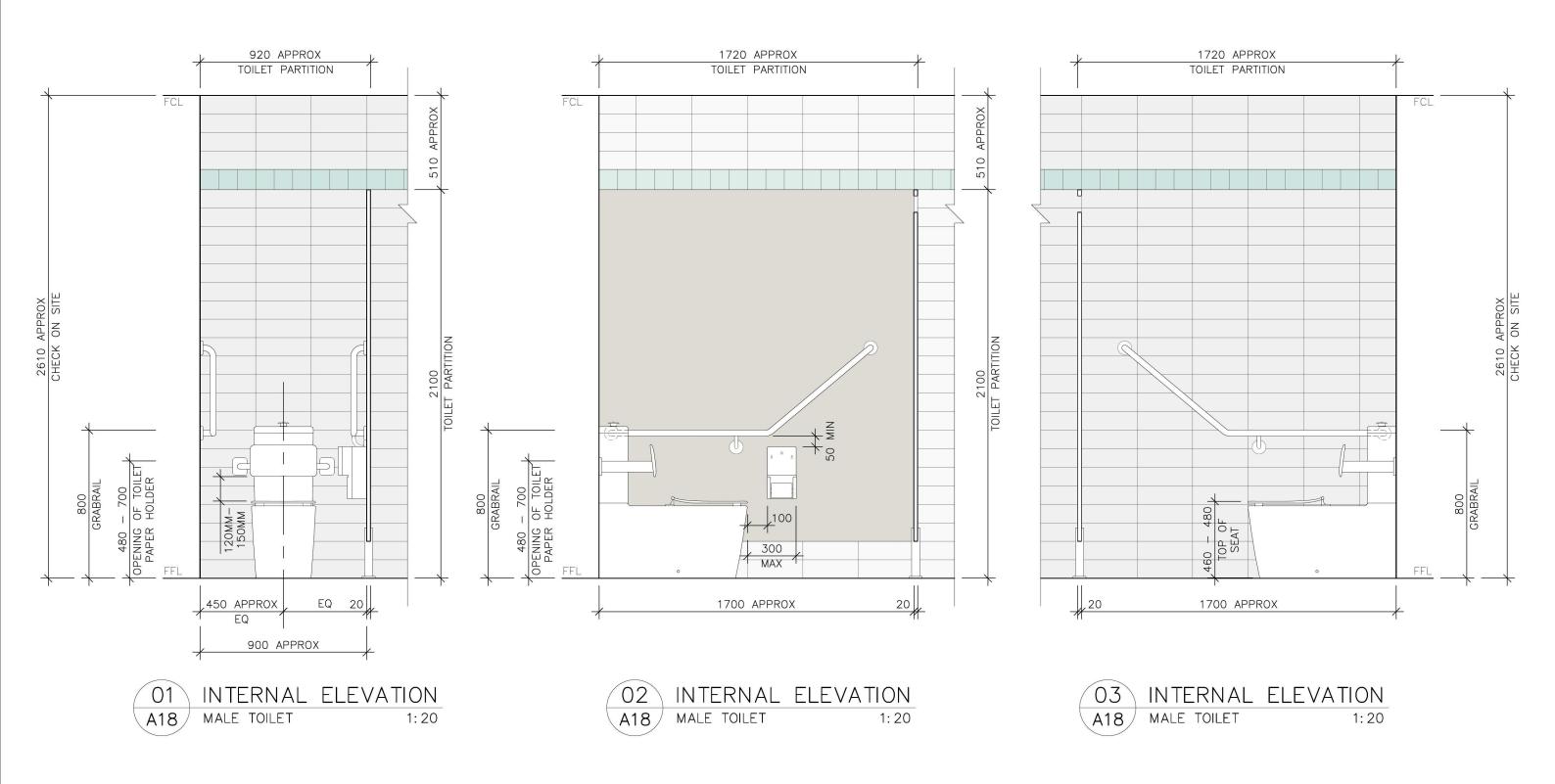
1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

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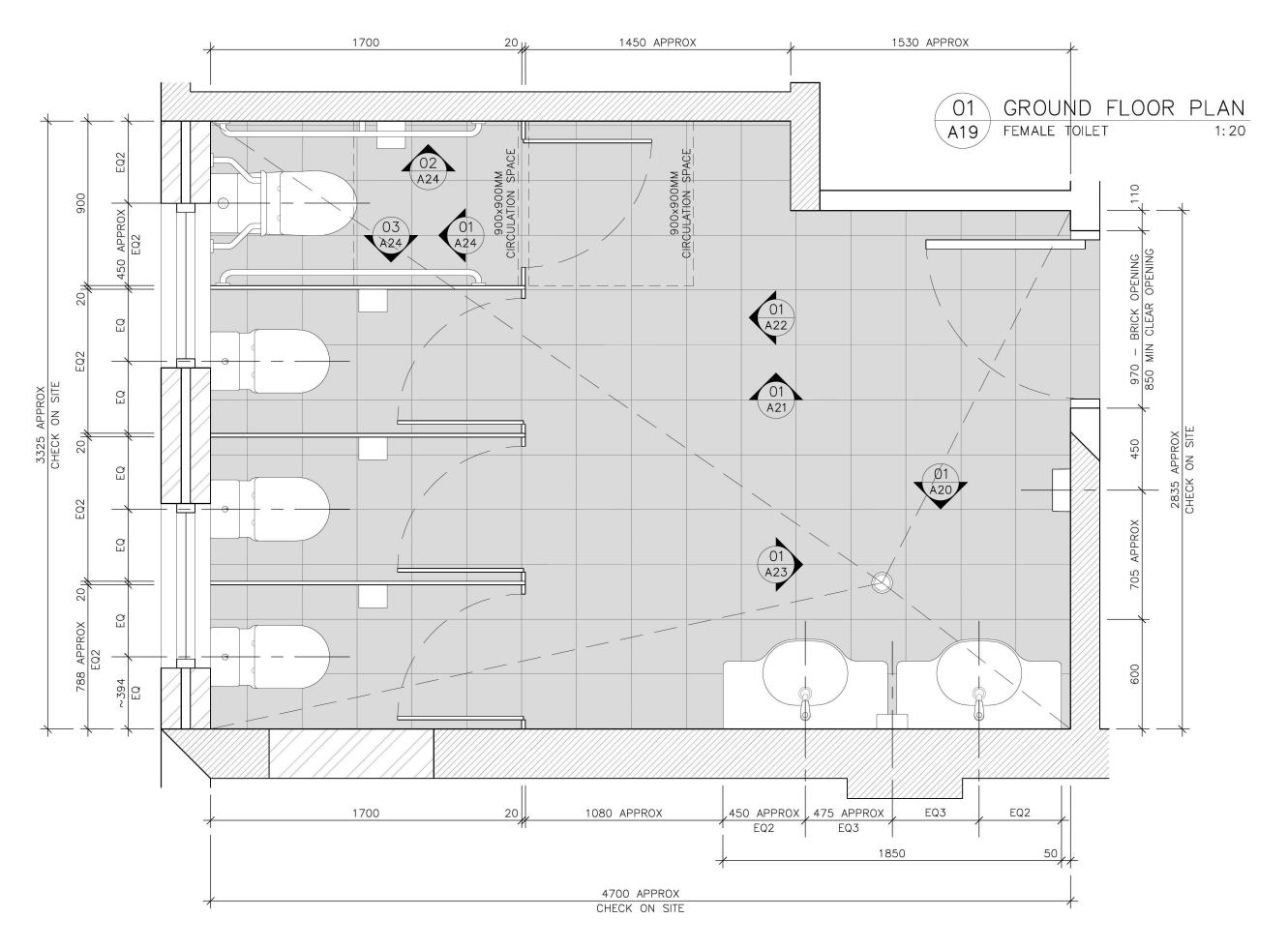


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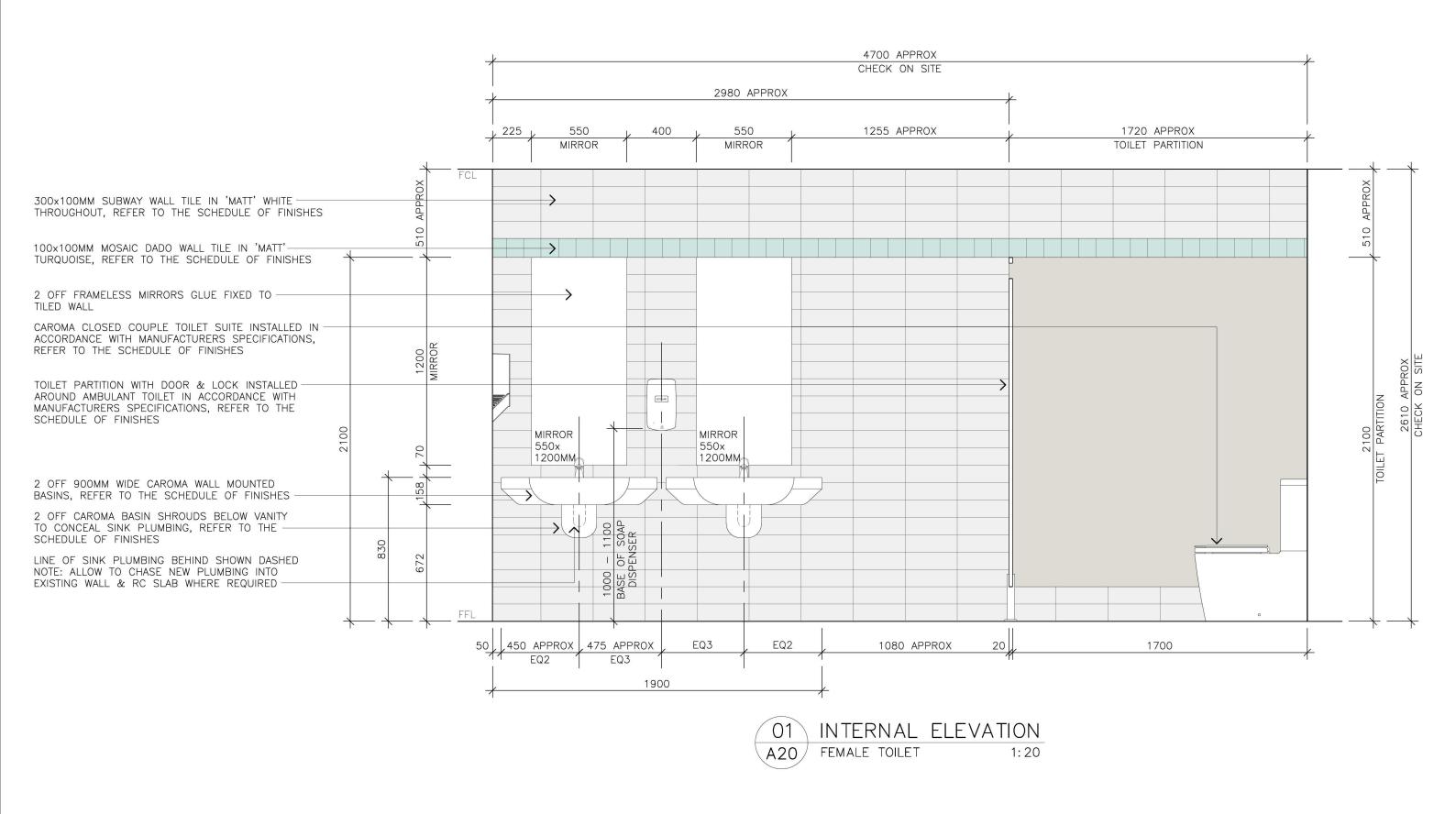
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Architectural www.jladesign.com.au PROPOSED FEMALE TOILET DETAILS DA - DA ISSUE

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1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW

ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

FOR PENRITH CITY COUNCIL

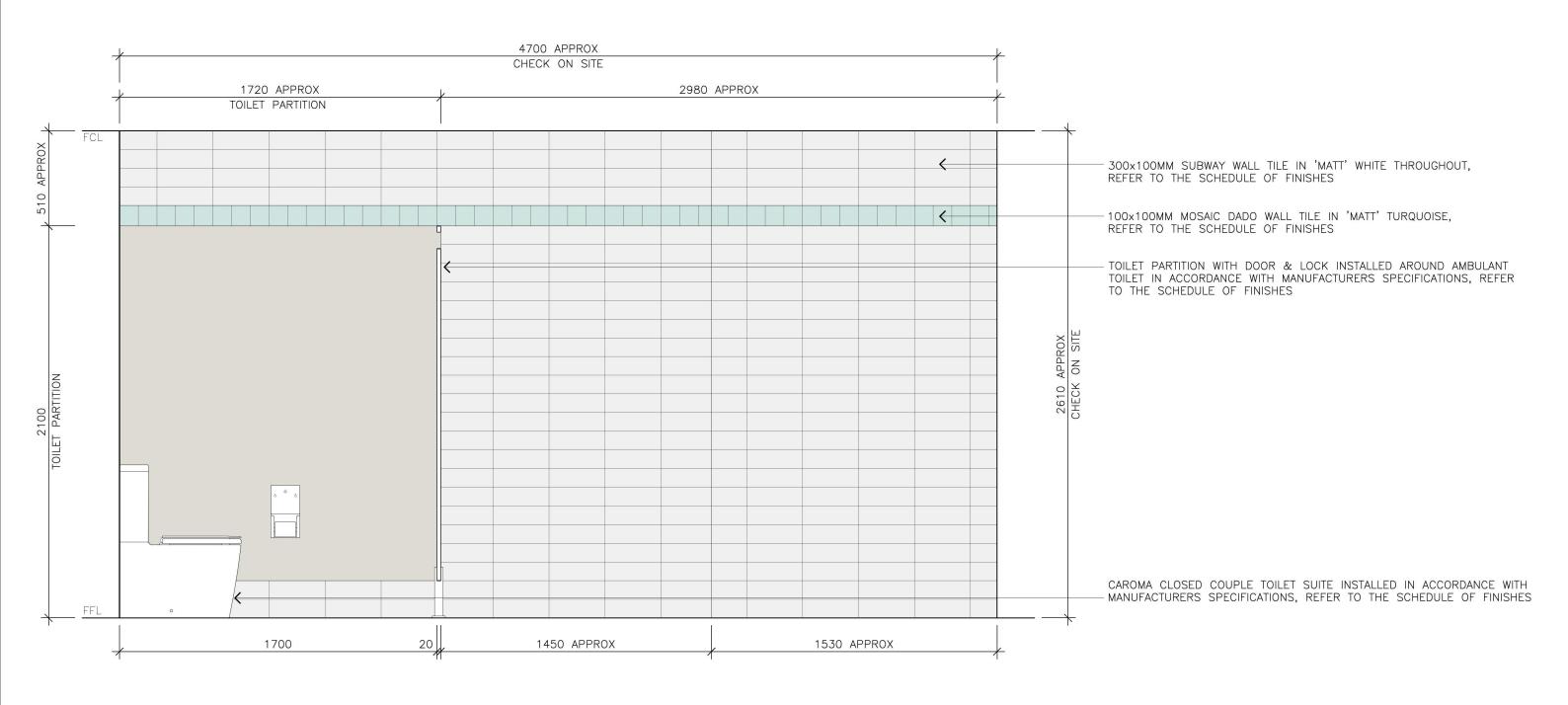
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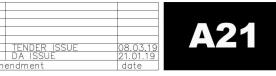


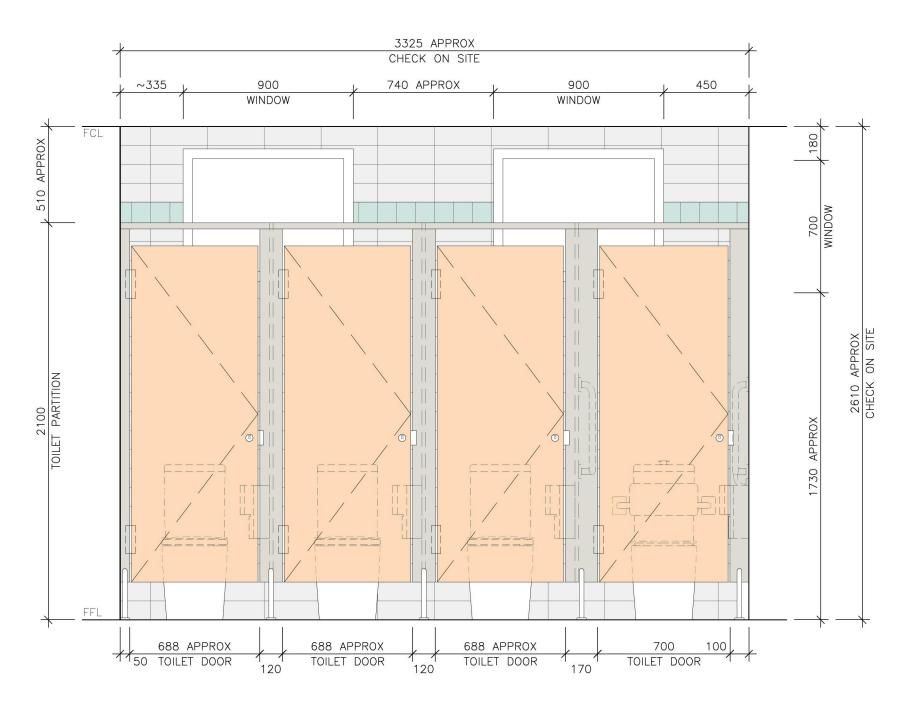


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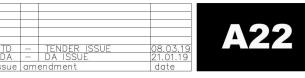


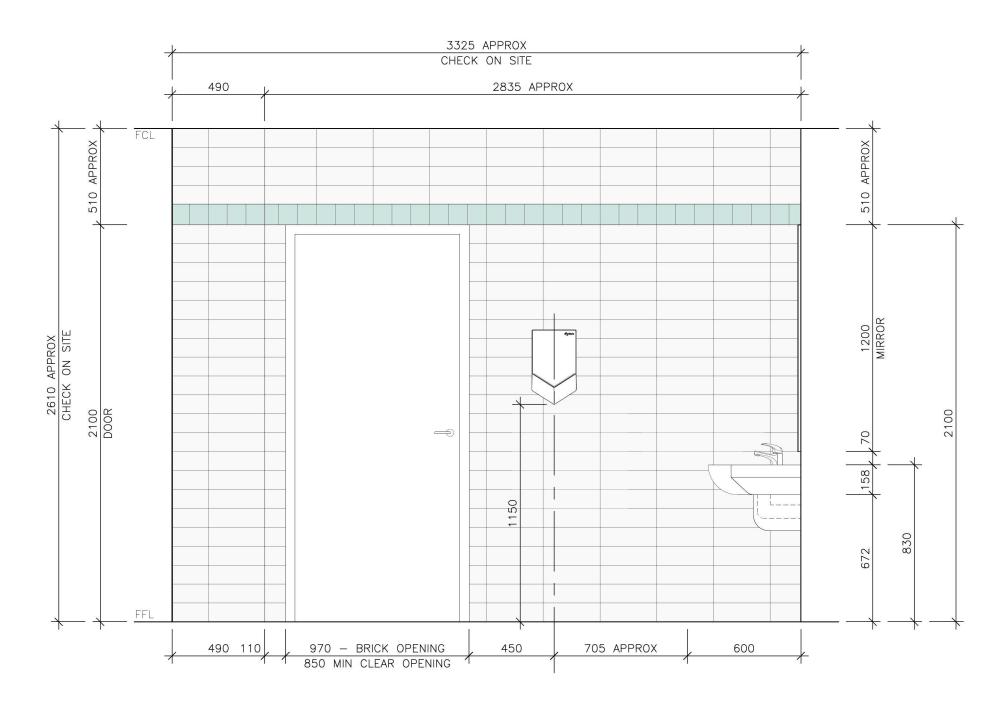
1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING FOR PENRITH CITY COUNCIL

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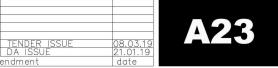


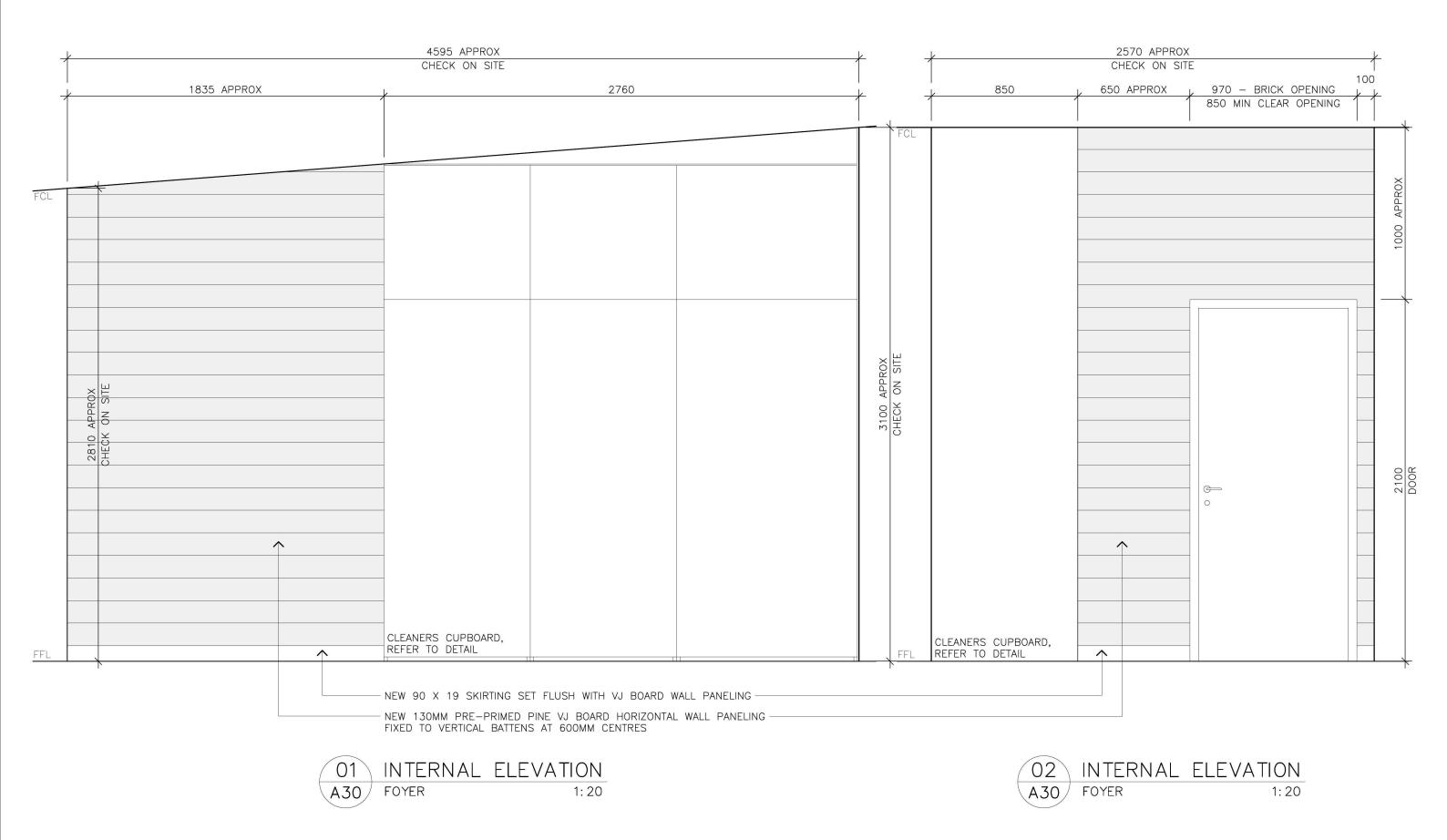
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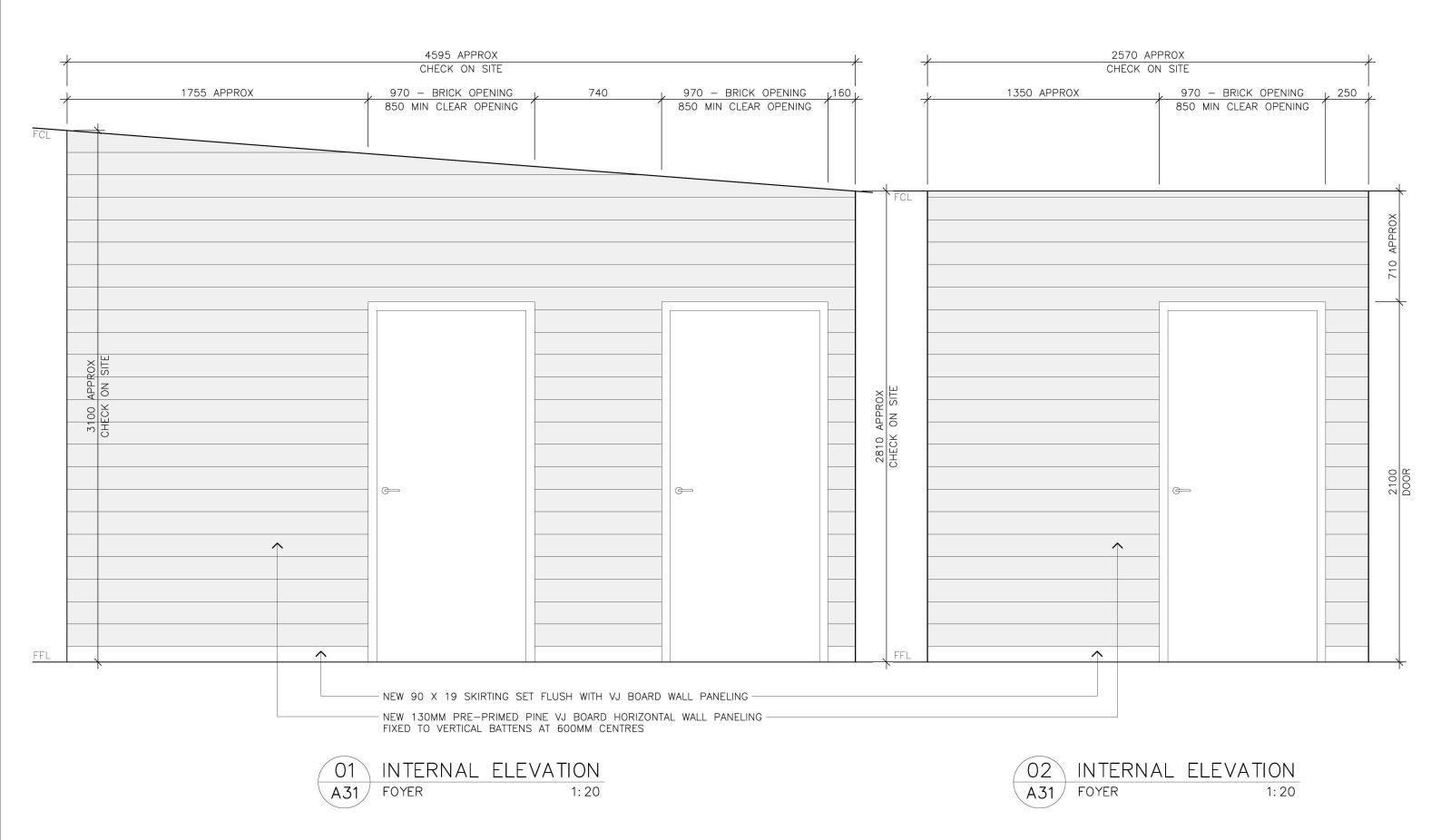
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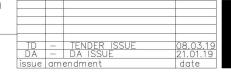


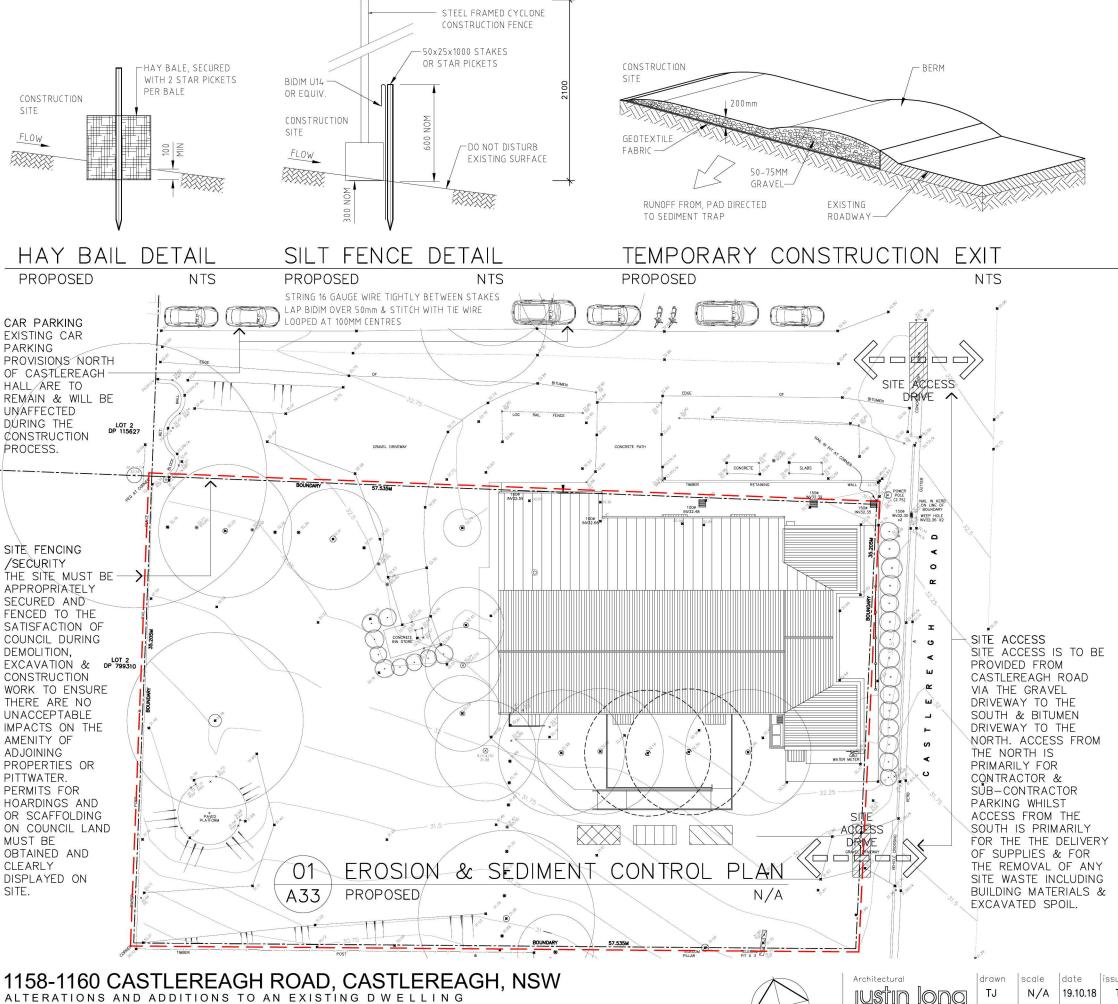


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LEGEND

PROVISION AREA FOR STOCKPILING OF MATERIALS



AREA FOR STORING EXCAVATED MATERIAL



TRADE WASTE RECEPTABLE LOCATION



2.1M HIGH STEEL FRAMED CYCLONE CONSTRUCTION FENCE & SILT FENCE, REFER TO DETAIL



TEMPORARY CONSTRUCTION EXIT, REFER TO DETAIL

SEDIMENT & SOIL EROSION CONTROL NOTES

A SOIL AND WATER MANAGEMENT PLAN (ALSO KNOWN AS AN EROSION AND SEDIMENT CONTROL PLAN) SHALL BE PREPARED ACCORDING TO SSROC'S SOIL AND WATER MANAGEMENT BROCHURE AND THE NSW ENVIRONMENT PROTECTION AUTHORITY (EPA) MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION THIS PLAN SHALL BE IMPLEMENTED PRIOR TO COMMENCEMENT OF ANY WORKS OR ACTIVITIES. ALL CONTROLS IN THE PLAN SHALL BE MAINTAINED AT ALL TIME. A COPY OF THE SOIL AND WATER MANAGEMENT PLAN MUST BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO COUNCIL OFFICERS ON REQUEST.

RESPREAD TOPSOIL & REVEGETATE ALL BARE AREAS

RETAIN TEMPORARY STRAW BALE & SILT FENCE DRAINAGE STRUCTURES UNTIL STORMWATER DRAINAGE & LANDSCAPING IS IN PLACE

DOWNSTREAM EROSION TO BE CHECKED & MAINTAINED PERIODICALLY DURING CONSTRUCTION

BUILDER TO ENSURE CONSTRUCTION & STABILISATION OF ALL CULVERTS & SURFACE DRAINAGE WORKS AT EARLIEST PRACTICAL STAGE

REMOVAL OR DISTURBANCE OF VEGETATION AND TOP SOIL IS CONFINED TO WITHIN 3M OF THE APPROVED BUILDING AREA (NO TREES ARE TO BE REMOVED WITHOUT APPROVAL)

ALL UNCONTAMINATED RUN-OFF MUST BE DIVERTED AROUND CLEARED OR

THE INSTALLATION OF SILT FENCES OR OTHER DEVICES MUST PREVENT SEDIMENT AND OTHER DEBRIS ESCAPING FROM THE CLEARED OR DISTURBED AREAS INTO DRAINAGE SYSTEMS OR WATERWAYS

ALL EROSION AND SEDIMENT CONTROLS ARE FULLY MAINTAINED FOR THE DURATION OF THE DEMOLITION & DEVELOPMENT WORKS

CONTROLS MUST BE PUT INTO PLACE TO PREVENT TRACKING OF SEDIMENT BY VEHICLES ONTO ADJOINING ROADWAYS

ALL DISTURBED AREAS ARE RENDERED EROSION—RESISTANT BY TURFING MULCHING, PAVING OR SIMILAR

ALL WATER PUMPED OR OTHERWISE REMOVED FROM EXCAVATIONS OR BASEMENT AREAS MUST BE FILTERED TO ACHIEVE SUSPENDED SOLIDS/NON FILTERABLE RESIDUE LEVELS COMPLYING WITH THE AUSTRALIAN WATER QUALITY GUIDELINES FOR FRESH AND MARINE WATERS

PUMPED OR OVERLAND FLOWS OF WATER ARE TO BE DISCHARGED SO AS NOT TO CAUSE, PERMIT OR ALLOW EROSION BEFORE THE COMMENCEMENT OF WORK (AND UNTIL ISSUE OF THE OCCUPATION CERTIFICATE)

ALL EXCAVATIONS MUST BE KEPT FREE FROM WATER ACCUMULATION

ANY EXCAVATION WORKS CARRIED OUT ON SITE SHOULD BE CLOSELY MONITORED TO ENSURE NO SIGNS OF POTENTIAL ACID SULPHATE SOIL (PASS) OR ACTUAL ACID SULPHATE SOIL (AASS) ARE OBSERVED. INDICATORS MAY INCLUDE GREY TO GREENISH BLUE CLAYS, UNUSUAL GOLD-YELLOW MOTTLING OR 'ROTTEN EGG' ODOURS. IF ANY OF THESE INDICATORS ARE OBSERVED, EXCAVATION OF THE SITE IS TO BE STOPPED IMMEDIATELY, COUNCIL IS TO BE NOTIFIED AND A SUITABLY QUALIFIED ENVIRONMENTAL SCIENTIST SHOULD BE CONTRACTED TO FURTHER ASSESS THE SITE.

IN THE EVENT OF A STORM ALL ESTABLISHED CONTROLS ARE TO BE ASSESSED & THE HYDRAULIC ENGINEER & ARCHITECT ARE TO BE NOTIFIED IMMEDIATELY OF ANY DOWNSTREAM SEDIMENTATION.

1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW

FOR PENRITH CITY COUNCIL

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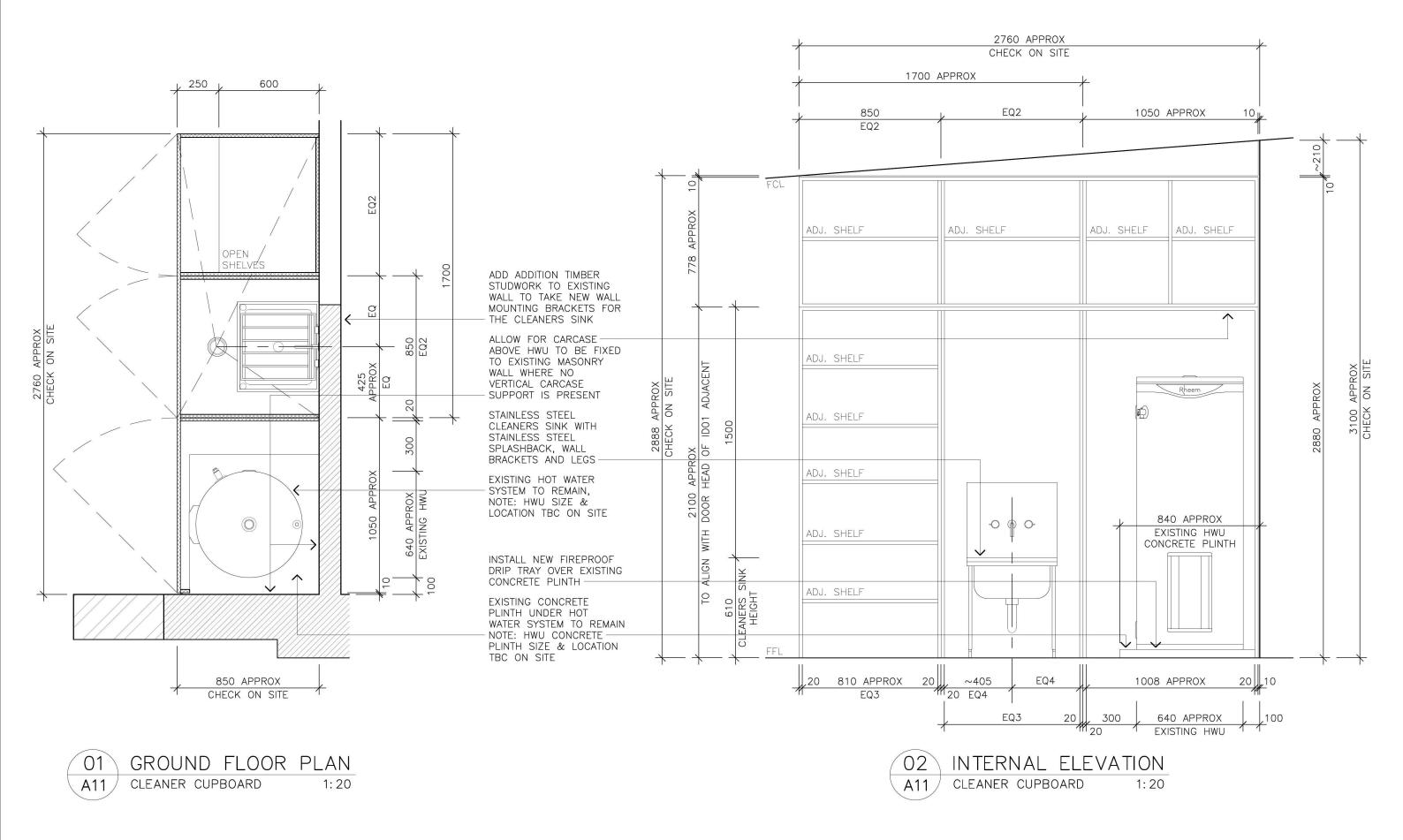




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CONTROL PLAN





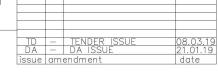
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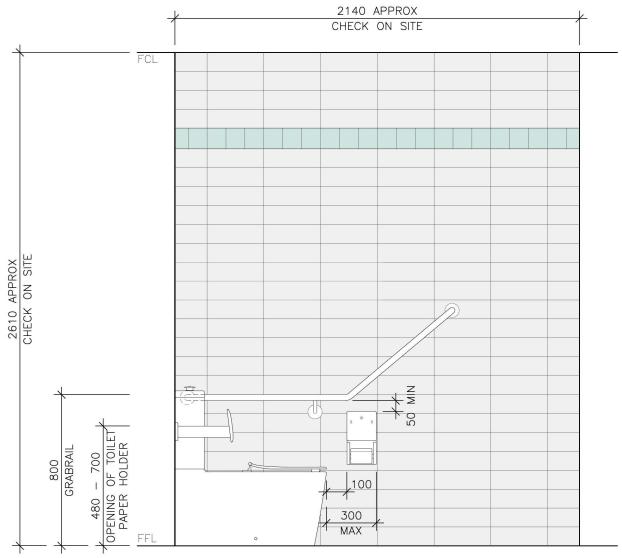
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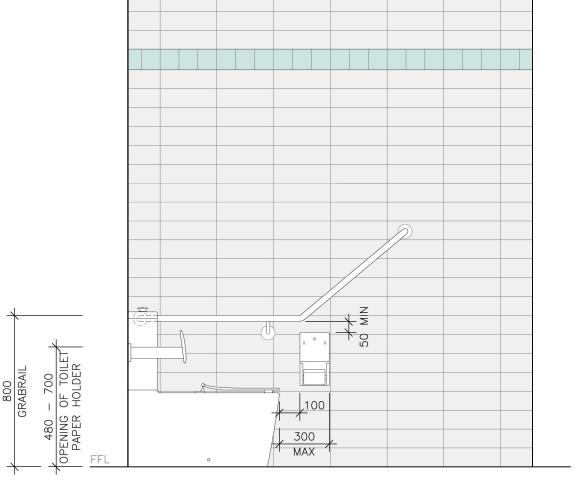


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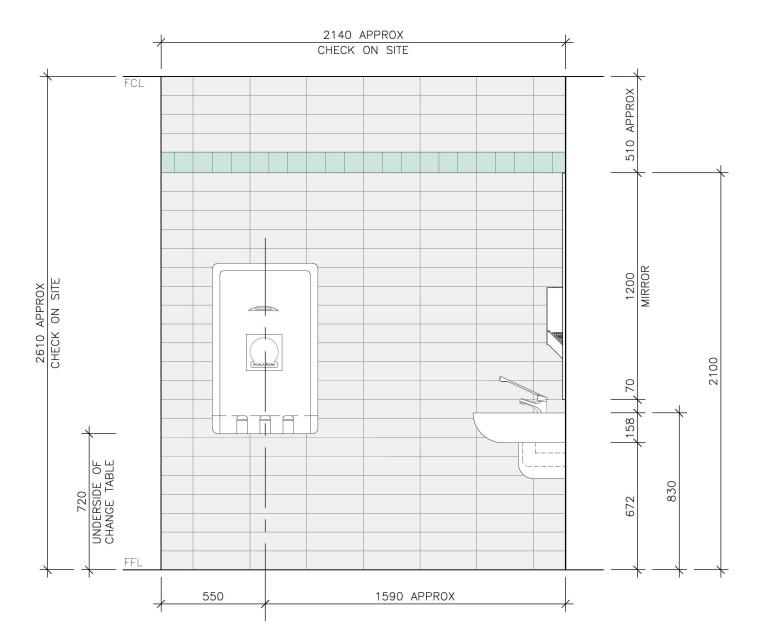
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1158-1160 CASTLEREAGH ROAD, CASTLEREAGH, NSW ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

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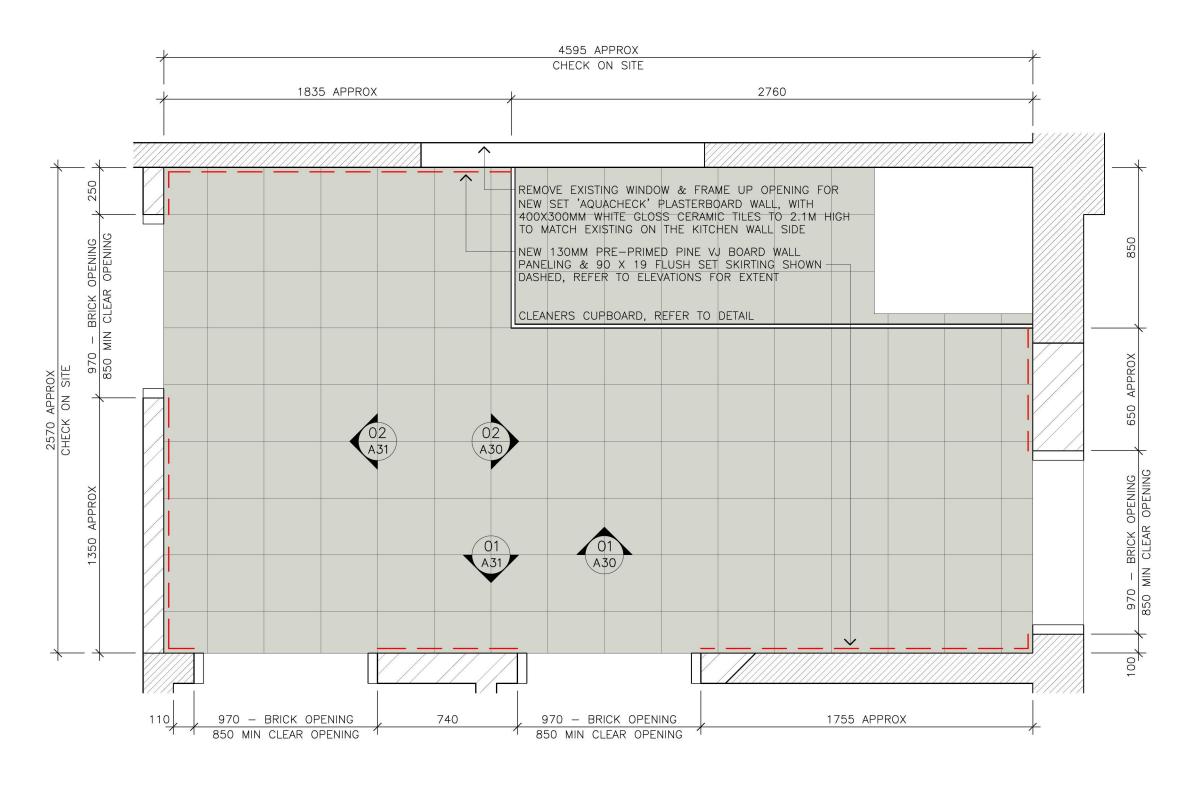
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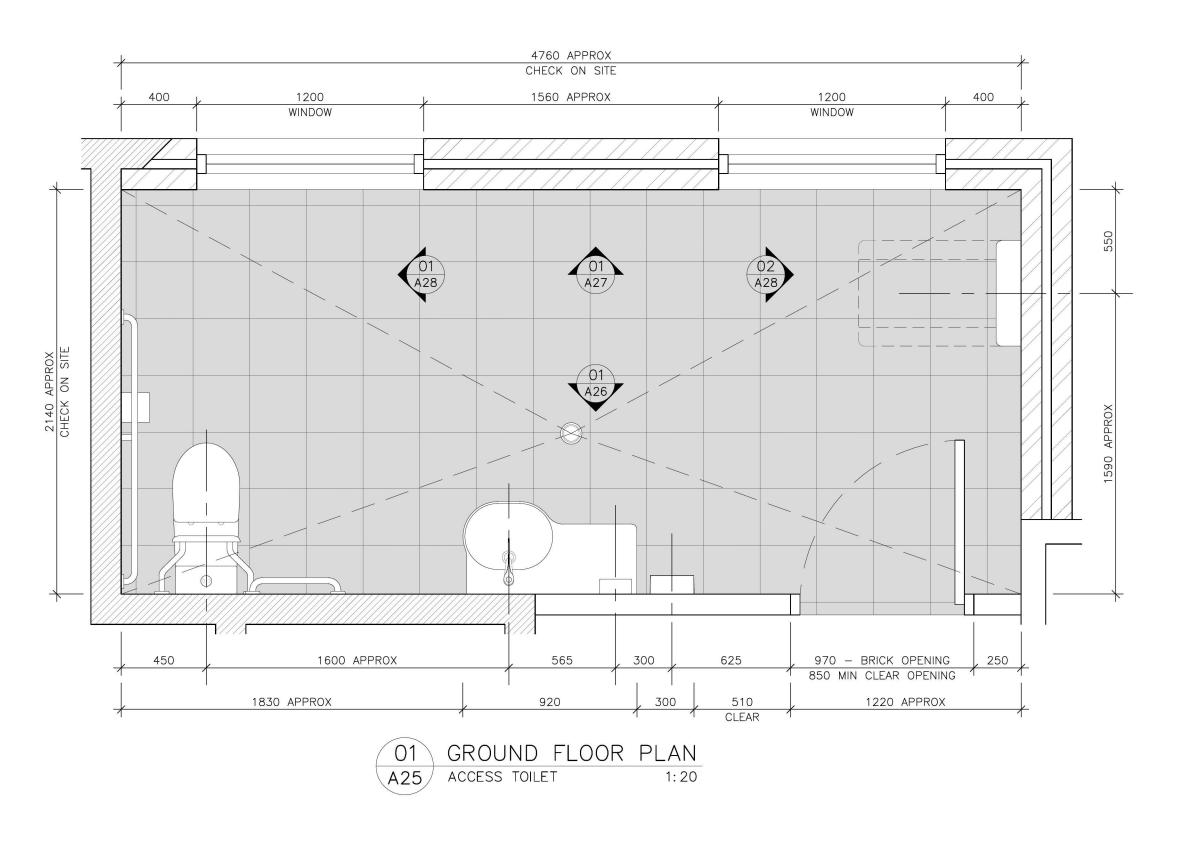


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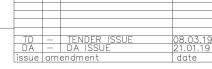


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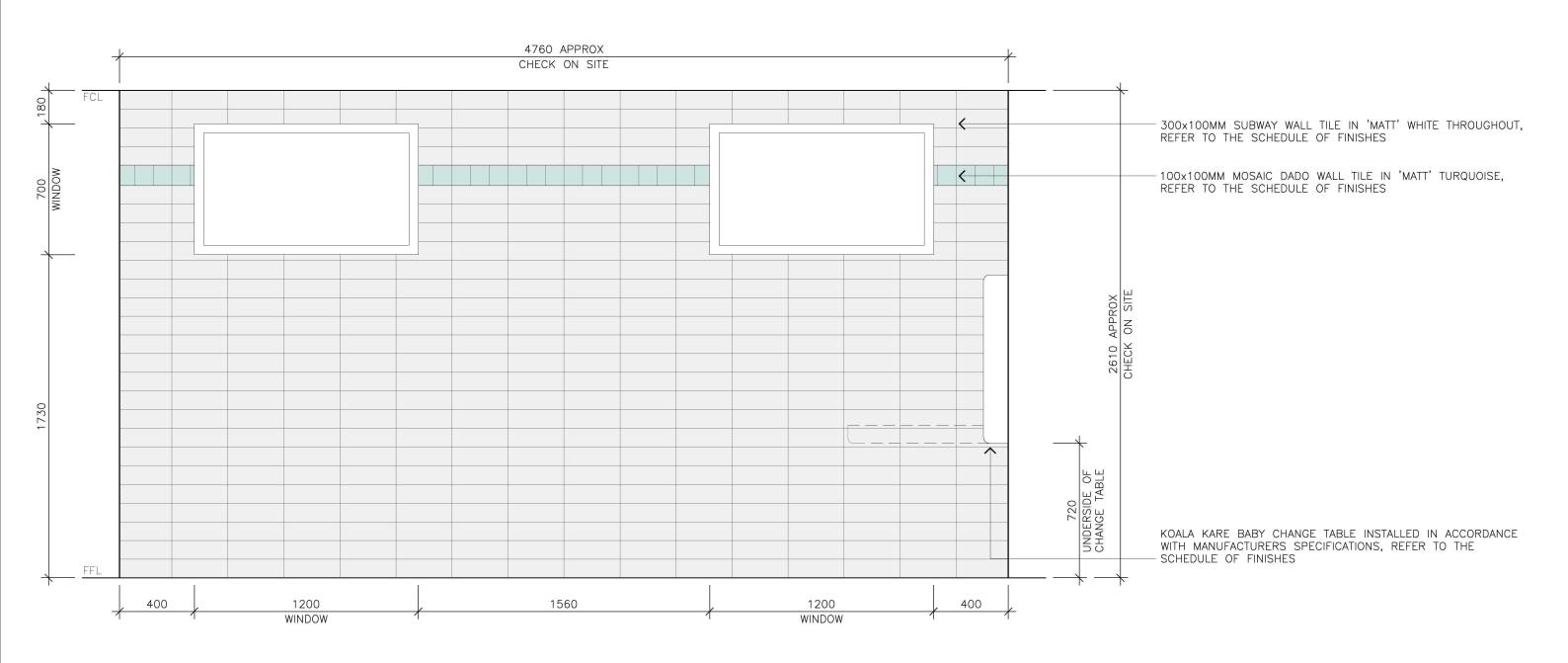
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Architectural www.jladesign.com.au PROPOSED ACCESS TOILET DETAILS

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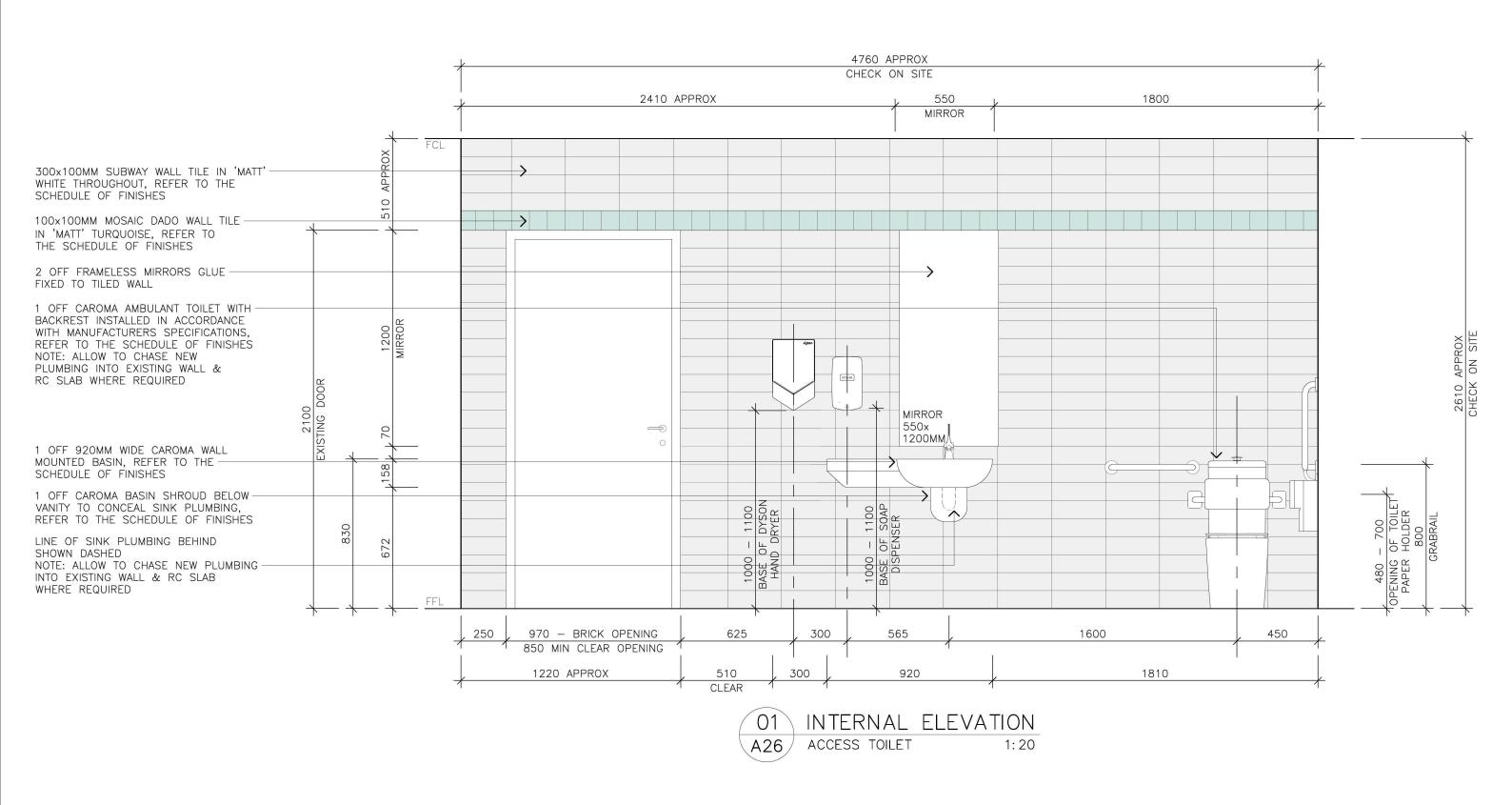


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ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING

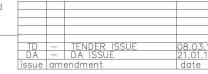
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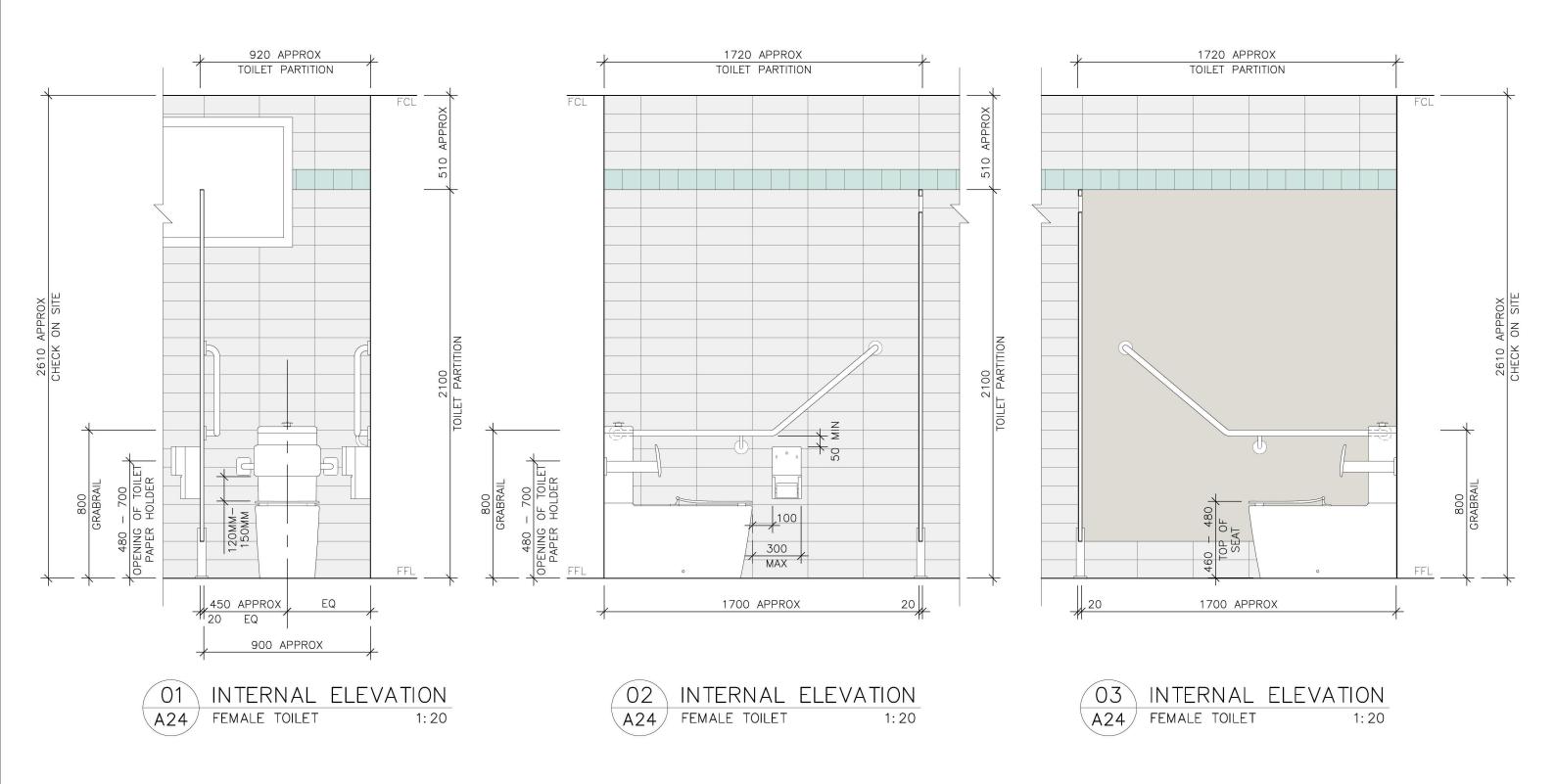
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