CONSTRUCTION NOTES:

GENERAL

G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION, ARCHITECTURAL DRAWINGS, OTHER CONTRACT DOCUMENTATION AND THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.

G2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT.

G3. DO NOT OBTAIN DIMENSIONS BY SCALING THE STRUCTURAL ELEMENTS.

G4. SHOULD ANY AMBIGUITY, ERROR, OMISSION, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE CONTRACT DOCUMENTS. IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT.

G5. MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION. NO PART SHALL BE OVER STRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND THE EXCAVATIONS STABLE AT ALL TIMES.

G6. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT SAA CODES AND THE BY-LAWS, ORDINANCES OR OTHER REQUIREMENTS OF THE RELEVANT BUILDING AUTHORITIES.

G7. WHERE NOTES REFER TO THE SPECIFICATION, COMPLY WITH THE REQUIREMENTS OF NATSPEC BUILDING SPECIFICATION AS A MINIMUM UNLESS MODIFIED BY THE CONTRACT DOCUMENT.

G8 BUILDER IS TO CARRY OUT A DIAL BEFORE YOU DIG SURVEY OF THE SITE TO IDENTIFY ALL SERVICES THAT MAY BE LOCATED IN AREAS OF EXCAVATION/CONSTRUCTION.

G8. FIRE RATING OF STRUCTURAL ELEMENTS TO BE IN ACCORDANCE WITH THE BCA. PROJECT BCA REPORT (IF AVAILABLE), DA CONDITIONS AND BCA REQUIREMENTS.

G9. ABBREVIATIONS USED GENERALLY.
U.N.O. – UNLESS NOTED OTHERWISE
TYP. – TYPICALLY
N.S.O.P. – NOT SHOWN ON PLAN
N.S.O.E. – NOT SHOWN ON ELEVATION
170 – INDICATES SLAB OR BAND THICKNESS VARIATION

DESIGN LOADS

CARE CENTRE FLOOR : 3.0 kPa.
RETAINING STRUCTURE SURCHARGE : 7.0 kPa.

WIND LOADS: V_{500} = 45m/s
REGION = A2
TERRAIN CATEGORY = 3

EARTHQUAKE LOADS: DESIGN CATEGORY = II
SUB SOIL CLASS = De
k_pZ = 0.08

FOUNDATIONS

F1. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 700 kPa ON ROCK.

F2. THE BUILDER SHALL OBTAIN APPROVAL FROM THE SUPERVISING ENGINEER/BUILDER INSPECTOR AS TO THE SUITABILITY OF THE FOUNDATION MATERIAL PRIOR TO PLACING CONCRETE.

F3. ANY WEAK OR DEFECTIVE AREAS OF FOUNDATION SOIL SHALL BE REMOVED AND REPLACED WITH SOUND GRANULAR MATERIAL (COMPACTED IN LAYERS, EACH NOT MORE THAN 100mm. THICK, TO ACHIEVE A MINIMUM DRY DENSITY RATIO OF 98% – STANDARD COMPACTION).

F4. EXCAVATION NEAR EXISTING FOOTINGS INCLUDING EXCAVATION FOR SERVICE TRENCHES SHALL NOT EXTEND BELOW FOUNDATION LEVEL WITHOUT THE ENGINEERS APPROVAL.

F5. DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVERED WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETE.

F6. REFER TO GEOTECHNICAL REPORT: No. G09/1296-A, DATED MAY 2014 BY NETWORK GEOTECHNICALS.

TEMPORARY WORKS AND PROPPING

TW1 THESE DRAWINGS INDICATE THE STRUCTURE IN ITS FINAL/ PERMANENT STATE. TEMPORARY WORKS, PROPPING AND INTEGRITY OF THE EXISTING STRUCTURE DURING THE CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE BUILDER.

TW2 THE BUILDER MUST ENGAGE AN APPROPRIATELY QUALIFIED ENGINEER TO PROVIDE DESIGN, ADVICE AND CERTIFICATION FOR ALL TEMPORARY WORKS INCLUDING (BUT NOT LIMITED TO):
- NEEDLING
- TEMPORARY PROPPING
- TEMPORARY BRACING
- PRECAST ERECTION AND TEMPORARY SUPPORT
- SHORING
- FORMWORK
- SCAFFOLDING
- CRANE/ PLANT LOADS EXERTED ON THE STRUCTURE

TW3 SAFE ERECTION OF THE PERMANENT STRUCTURAL ELEMENTS (EG PRECAST/ STRUCTURAL STEELWORK) REMAINS THE RESPONSIBILITY OF THE BUILDER AND THEIR SPECIALIST SUB-CONTRACTORS. THE BUILDER MUST CONTACT SDA SHOULD THEY REQUIRE ANY MODIFICATIONS OF THE PERMANENT WORKS TO BE MADE TO ENSURE SAFE ERECTION AND WORK PLACE.

CONCRETE

C1. ALL CONCRETE WORKS AND MATERIALS ARE TO BE IN ACCORDANCE WITH AS3600-CONCRETE STRUCTURES CODE (CURRENT EDITION).

C2. CONCRETE COMPRESSIVE STRENGTH (f'c), SHALL BE AS FOLLOWS:

ELEMENT	f'c	SLUMP	MAX. AGG.
PIERS & FOOTINGS	25 MPa.	80	20
SLABS ON GROUND	25 MPa.	80	20
SUSPENDED SLABS	32 MPa.	80	20
BEAMS	32 MPa.	80	20
COLUMNS & WALLS	REFER ELEV.	80	20

ADDITION OF WATER ON SITE TO CONCRETE SHALL NOT BE PERMITTED.

C3. REINFORCEMENT IS TO BE FIXED SO AS TO ACHIEVE THE FOLLOWING CLEAR COVERS:

ELEMENT		COVER (mm.) FORMED FINISH	COVER (mm.) SURFACES CAST AGAINST GROUND
PIERS		50	50
FOOTINGS		50	50
WALLS		40	
COLUMNS	INTERNAL	40	50
	EXTERNAL	40	65
BEAMS	INTERNAL	30	40
	EXTERNAL	40	65
SLABS &	INTERNAL	20	30
BAND BEAMS	EXTERNAL	40	65
SLABS ON	WITH MEMBRANE	-	30
GROUND	WITHOUT MEMBRANE	-	50
CONCRETE	AGAINST GROUND	-	65
BLOCKWALLS	NOT AGAINST GROUND	-	50

C4. CONCRETE SHALL BE MOIST CURED FOR A MINIMUM OF 3 DAYS FOLLOWING PLACEMENT OF CONCRETE. ALTERNATIVE METHODS OF CURING MAY BE ACCEPTABLE, PROVIDED APPROVAL FROM THE SUPERVISING ENGINEER HAS BEEN OBTAINED. EXTERNAL CONCRETE & POLISHED/TOPPING SLAB TO BE CURED FOR A MINIMUM OF 7 DAYS.

C5. SPLICES IN REINFORCEMENT ARE TO BE MADE ONLY WHERE SHOWN ON DRAWINGS, EXCEPT WHERE WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.

FORMWORK

FW1. FORMWORK SHALL COMPLY WITH AS3610 SAA FORMWORK CODE

FW2. FORMWORK SHALL BE CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER FOR CONFORMANCE WITH THE AUSTRALIAN STANDARDS PRIOR TO EACH CONCRETE POUR.

PILES

P1. BORED PILES ARE TO BE INSTALLED TO THE DEPTH SHOWN ON DRAWINGS OR BEARING STRATA AS NOTED IN THE GEOTECHNICAL REPORT. REFER NOTE F6.

P2. CONTRACTOR TO ENGAGE GEOTECHNICAL ENGINEER TO CONFIRM ALL FOUNDATIONS AND FOOTINGS.

P3. WORKMANSHIP AND MATERIALS FOR PILES SHALL BE IN ACCORDANCE WITH AS2159. PILES TO HAVE +/-75mm SURFACE POSITION PERPENDICULAR AND PARALLEL TO THE PILE LINE AND 1% VERTICAL TOLERANCE.

P4. NO FORM LINING IS REQUIRED TO THE EXCAVATED FACE UNLESS EXCAVATION IS REQUIRED TO BE RETAINED.

P5. REINFORCEMENT IS TO BE FIXED SO AS TO ACHIEVE 50mm CLEAR COVER MINIMUM AND THE REQUIREMENTS OF AS2159.

P6. REINFORCEMENT TO PILES SHALL BE FABRICATED INTO CAGES AND CAREFULLY LOWERED INTO POSITION SO AS TO AVOID DISLODGING MATERIAL INTO THE EXCAVATION. REINFORCEMENT TO PILES SHALL BE SECURELY HELD IN CORRECT POSITION DURING CONCRETING OPERATIONS.

P7. DO NOT CUT, HEAT OR WELD REINFORCEMENT WITHOUT WRITTEN PERMISSION FROM THE SUPERVISING ENGINEER.

P8. PROVIDE FULL LAP LENGTH TO VERTICAL BARS OF PILES ABOVE FINISHED CONCRETE.

P9. CONCRETE WORKS AND MATERIALS TO BE IN ACCORDANCE WITH AS3600.

P10. PLACING METHODS SHALL BE SUBMITTED TO THE SUPERINTENDENT BEFORE PLACING ANY CONCRETE. PILE EXCAVATION TO BE COMPLETELY CLEANED AND FREE OF DEBRIS AND WATER AT THE TIME OF PLACING CONCRETE.

P11. CONCRETE TO PILES SHALL BE PLACED USING A TREMIE TUBE PLACED CENTRALLY WITHIN THE REINFORCEMENT CAGE. THE MAXIMUM DROP PERMITTED FROM UNDERSIDE OF TREMIE TUBE TO PLACEMENT LEVEL TO BE 3 METRES. THE TREMIE TUBE AND ENTRY HOPPER WILL BE SUPPORTED INDEPENDENTLY FROM THE REINFORCING CAGE AND SHALL BE WITHDRAWN AS CONCRETING PROCEEDS.

P12. COMPACTION OF FRESHLY PLACED CONCRETE SHALL BE CARRIED OUT IMMEDIATELY AND CONTINUOUSLY USING MECHANICAL IMMERSION-TYPE VIBRATORS. IN THE CASE OF PILES THE VIBRATOR SHALL BE LOWERED INSIDE THE REINFORCEMENT CAGE AND VIBRATION SHALL BE CO-ORDINATED WITH TREMIE PLACEMENT. THE MAXIMUM DEPTH OF CONCRETE PLACED IN PILES PRIOR TO VIBRATION SHALL BE TWO LINEAL METRES.

P13. CONSTRUCTION JOINT AT TOP OF PILE SHALL BE HAND FINISHED TO PROVIDE A DENSE LEVEL SURFACE FREE FROM LAITANCE.

P14. STEEL SCREW PILES TO BE DESIGNED FOR A 50 YEAR DESIGN LIFE FOR THE LOADS INDICATES IN THE DRAWINGS.

REINFORCEMENT

R1. CLEAR COVER TO REINFORCEMENT (INCLUDING FITMENTS) SHALL BE AS NOTED ON THE DRAWINGS. WHERE NOT SPECIFICALLY DESIGNATED COVER IS TO BE IN ACCORDANCE WITH AS3600

R2. COVER TO REINFORCEMENT ENDS TO BE 45mm. U.N.O.

R3. PROVIDE N12-450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 450 U.N.O.

R4. NO REINFORCEMENT SPLICES SHALL BE MADE, OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS, WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT/ENGINEER. MINIMUM LAP FOR FABRIC SHALL BE ONE MESH PLUS 25mm.

R5. DO NOT CUT, HEAT OR WELD REINFORCEMENT WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

R6. STAGGERED BARS ARE TO BE PLACED ALTERNATELY

R7. REINFORCEMENT TO BE CHECKED BY ENGINEER PRIOR TO POURING. GIVE ENGINEER 48 HOURS NOTICE OF CHECK BEING REQUIRED & ALLOW SUFFICIENT TIME FOR ANY REMEDIAL WORK REQUIRED AFTER CHECKING PRIOR TO CONCRETE POUR.

R8. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES & BARS TO BE AS REQUIRED BY AS3600 BUT NOT LESS THAN THREE DIAMETERS. CONDUITS IN SLABS TO BE PLACED ABOVE BOTTOM REINFORCEMENT & BELOW TOP REINFORCEMENT

R9. ALL RE-ENTRANT CORNERS AND SERVICE HOLES ARE TO HAVE 2 TRIMMER BARS TOP & BOTTOM, PLACED DIAGONALLY & CENTRALLY TO CORNERS (COG END IF REQUIRED).
TOP TRIMMERS TIED TO THE UNDERSIDE OF TOP REINFORCEMENT & BOTTOM TRIMMERS TIED TO THE TOP OF THE BOTTOM REINFORCEMENT. TRIMMER BARS TO MATCH SLAB REINFORCEMENT (N12 MIN. & N16 MAX.). TRIMMER BARS ARE ONLY REQUIRED IN THE TOP LAYER FOR SLAB LAID ON GROUND. TYPICALLY UNLESS NOTED OTHERWISE ON PLAN.

R10. HOOKS, BENDS, SPLICES & LAPS TO BE IN ACCORDANCE WITH AS3600

R11. IF HYDRONIC HEATING PIPES ARE PROPOSED IN CONCRETE SLABS, THE BUILDER SHALL ENSURE THAT THE TOP LAYER OF REINFORCEMENT OR MESH IS LAID AT THE CORRECT COVER OVER THE PIPES & CO-ORDINATE THE REINFORCEMENT FIXING WITH THE HEATING CONTRACTOR. A LIGHT MESH (EG. SL62) MAY BE USED TO FIX HYDRONIC PIPES IN LOCATION AS REQUIRED.

R12. 10N16-250 +4N16 — INDICATES THE EXTENT OF AREA COVERED BY BARS WITH 10 BARS AT 250 CENTRES PLUS 4 EXTRA PLACED ONE PER SPACE CENTRALLY OVER COLUMN

R13. INDICATES A CHANGE IN BAR SHAPE AND/OR LENGTH

R14 (T3) — INDICATES TO REPEAT SIMILAR GROUP OF BARS TAGGED THUS (T3) WITH BARS LAID IN THE DIRECTION OF THE ARROW.

R15. BAND TIES:
2 N12@200 INDICATES TIES IN SETS OF TWO AT 200 SPACINGS.

R16. ABBREVIATIONS USED IN REINFORCEMENT DETAILING:

(BB) BOTTOM BOTTOM LAYER (LAID 1ST.)
(B) BOTTOM LAYER (LAID 2ND.)
(T) TOP LAYER (LAID 3RD.)
(TT) TOP TOP LAYER (LAID 4TH.)
E.F. EACH FACE
E.W. EACH WAY
N.F. NEAR FACE
F.F. FAR FACE
L.V. BAR LENGTH VARIES
ALT. BARS OF LENGTH &/OR SHAPE TO BE LAID ALTERNATELY

BRICK & BLOCK WORK

B1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE AS3700 – MASONRY STRUCTURES CODE.

B2. MORTAR FOR THE MASONRY SHALL BE PROPORTIONED AS FOLLOWS (BY VOLUME) :
GENERALLY :
SAND: 5 PARTS, LIME: 0 PART, CEMENT: 1 PART
METHYL CELLULOSE WATER THICKENER TO BE USED.
OR WITH NO ADDITIVES:
SAND: 6 PARTS, LIME: 1 PART, CEMENT: 1 PART
BELOW DAMP PROOF COURSE, IN RETAINING WALLS AND IN AREAS SUBJECT TO ATTACK FROM SALT SPRAY OR HEAVILY POLLUTED AREAS :
SAND: 4 PARTS, LIME: 0 PART, CEMENT: 1 PART
METHYL CELLULOSE WATER THICKENER TO BE USED.
OR WITH NO ADDITIVES:
SAND: 4.5 PARTS, LIME: 0.5 PART, CEMENT: 1 PART

B3. ALL LOADBEARING BRICKWORK TO HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF f'uc=20MPa.

B4. REINFORCED BLOCK WALLS SHALL BE CORE FILLED WITH CONCRETE COMPRESSIVE STRENGTH (f'c) OF 25 MPa. MAX. 10mm. AGGREGATE AND 150 SLUMP (TYPICAL U.N.O.) ALL BLOCKS TO HAVE A MINIMUM GRADE OF f'b=15 MPa

B5. PROVIDE CLEAN OUT BLOCKS TO ALL CORE FILLED BLOCKWORK

B6. GALVANISED COURSE REINFORCEMENT SHALL BE PROVIDED AT VERTICAL SPACINGS EVERY 6th. COURSE EQUAL TO:
110mm – MRBL 50
230mm – MRBL 150
ONE LAYER SHALL BE PROVIDED OVER AND UNDER ALL WINDOW AND DOOR OPENINGS AND EXTEND 300mm. PAST OPENING.

B7. CONTROL JOINTS ARE TO BE PROVIDED IN THE LOCATIONS INDICATED ON THE CONTRACT DOCUMENTS. IF NO CONTROL JOINTS ARE INDICATED THEY SHOULD BE PROVIDED AT SPACINGS RECOMMENDED BY THE BRICK OR BLOCK MANUFACTURER BUT AT SPACINGS NOT EXCEEDING 6m. CONFIRM LOCATION OF ALL CONTROL JOINTS WITH ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION

B8. MASONRY SHALL NOT BE CONSTRUCTED ON SUSPENDED SLABS OR BEAMS UNTIL ALL FORMWORK AND PROPS HAVE BEEN REMOVED AND CONCRETE HAS ACHIEVED ADEQUATE STRENGTH.

B9. NON-LOAD BEARING WALLS SHALL BE KEPT 20mm CLEAR OF SLAB AND BEAM SOFFITS. FILL GAP WITH APPROVED COMPRESSIBLE MATERIAL. PROVIDE LATERAL RESTRAINT TO TOPS OF ALL WALLS AS REQUIRED.

B10. CONCRETE SLABS SUPPORTED ON MASONRY SHALL BE POURED ON GALV. METAL SLIP JOINTS OR EQUIVALENT FOR EXTERNAL WALLS OR 2 LAYERS OF 0.2mm THICK PVC FOR INTERNAL WALLS. TOP COURSE OF BRICKS SHALL BE LAID FROGS DOWN.

B11. CHASES, RECESSES AND RAKING OF JOINTS ARE NOT PERMITTED IN MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.

B12. WHERE INTERNAL BRICK OR BLOCK WALLS ABUT STEEL COLUMNS PROVIDE GALV. CRIMPED FRAME TIES AT FOUR (4) COURSE VERTICAL CENTRES FOR BRICKWORK AND 2 COURSE VERTICAL CENTRES FOR BLOCKWORK. USE MASONRY EXPANSION TIE (M.E.T.) 1-6 300 LONG POWER FIXED WITH 3.8mm DIA. DRIVE PINS.

B13. TEMPORARY BRACING SHALL BE PROVIDED TO WALLS AS NECESSARY TO MAINTAIN STABILITY DURING CONSTRUCTION.

B14. ALL WALLS SHOWN AS 230 (TWO BRICKS WIDE) ARE BE CONSTRUCTED AS FULLY BONDED WITH HEADER COURSE EVERY 4th COURSE U.N.O.

STRUCTURAL STEEL

S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

S2. ALL DETAILS, GAUGE LINES ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH AISC DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND AISC STANDARD STRUCTURAL CONNECTIONS.

S3. ALL BOLTS SHALL BE M20 GRADE 8.8/S U.N.O.
ALL CONNECTION PLATES TO BE 10mm THICK U.N.O.

S4. UNLESS NOTED OTHERWISE ALL BOLTS TO BE GRADE 8.8/S

S5. ABBREVIATIONS USED IN STEELWORK DETAILING:
C.F.W. – CONTINUOUS FILLET WELD
F.S.B.W. – FULL STRENGTH BUTT WELD
P.P.B.W. – PARTIAL PENETRATION BUTT WELD

S6. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS U.N.O.
ALL WELDING ELECTRODES TO BE E48XX U.N.O.
ALL WELDS TO BE SP TO AS 1554.1 U.N.O.

S7. BUTT WELDS WHERE SHOWN SHALL BE COMPLETE PENETRATION BUTT WELDS.

S8. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING OF STEELWORKS AND ENSURE THAT THE STRUCTURE IS KEPT IN A STABLE CONDITION DURING ERECTION.

S9. REPAIR STEELWORK WHICH HAS LOCALLY LOST HOT DIPPED GALVANIZED COATING BY APPLYING A ZINC RICH EPOXY PRIMER SUCH AS "DULUX ZINCANODE 202" IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION OR EQUIVALENT.

S10. STRUCTURAL STEELWORK REQUIRED TO HAVE AN FRL IN ACCORDANCE WITH THE BCA. TO BE PROTECTED WITH PROPRIETARY FIRE SPRAY, BOARD OR INTUMESCENT PAINT. REFER SPECIFICATION, PROJECT BCA REPORT & RELEVANT DA CONDITION.

S11. STRUCTURAL STEELWORK SHALL HAVE THE SURFACES CLEAN AND TREATED AS FOLLOWS:

STEELWORK IN CAVITIES
HOT DIPPED GALVANIZED (600g/m^2)

INTERNAL STEELWORK
HAND OR TOOL CLEAN TO AS1627.4, CLASS 1
PROVIDE 1 COAT OF A ZINC RICH PRIMER SUCH AS "DULUX ZP" IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

EXTERNAL AND EXPOSED STEELWORK
ABRASIVE BLAST CLEAN TO AS1627.4, CLASS 2.5.
1st COAT- "DULUX ZINCANODE 402": DFT 75 MICRONS
2nd COAT- "DULUX DUREBUILD STE": DFT 100 MICRONS
3rd COAT- "DULUX FERREKO #3": DFT 100 MICRONS

STEEL LINTELS

STEEL LINTELS SHOULD BE PROVIDED OVER ALL OPENINGS IN ACCORDANCE WITH THE FOLLOWING TABLE. PROPRIETARY GALVANIZED STEEL LINTEL MAY BE USED PROVIDED THEY ARE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

STEEL LINTELS TABLE	
MAXIMUM SPAN	LINTEL MEMBER
1050mm	75 x 10 FL
1200mm	90 x 90 x 6 EA
1500mm	100 x 100 x 6 EA
1800mm	100 x 100 x 8 EA
2400mm	150 x 100 x 10 UA
3000mm	150 x 100 x 12 UA

INSTALLATION
GENERAL: PROVIDE 1 LINTEL TO EACH WALL LEAF. DO NOT CUT ON SITE. KEEP LINTELS 6mm CLEAR OF HEADS AND FRAMES. PACK MORTAR BETWEEN THE ANGLE UPSTAND AND SUPPORTED MASONRY UNITS.

A MINIMUM OF 4 BRICK COURSES MUST BE PROVIDED OVER EACH LINTEL.

MINIMUM BEARING EACH END:
SPAN ≤ 1800mm: 150mm BEARING
1800mm < SPAN ≤ 3000mm: 230mm BEARING

PROPPING: TO PREVENT DEFLECTION OR EXCESSIVE ROTATION, TEMPORARILY PROP LINTELS UNTIL THE MASONRY REACHES ITS REQUIRED STRENGTH AND A MINIMUM OF 3 DAYS.

NOTE:
IF LINTELS ARE SUBJECT TO CONCENTRATED LOADS FROM BEAMS AND THE LIKE, CONTACT THE ENGINEER FOR ADVICE.

STRUCTURAL TIMBER

T1. MATERIALS & WORKMANSHIP SHALL COMPLY WITH AS1720 TIMBER ENGINEERING CODE & AS1684 LIGHT TIMBER FRAMING CODE.

T2. ALL TIMBER USED SHALL HAVE BEEN STRESS GRADED BY VISUAL OR MECHANICAL MEANS IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARDS.

T3. HOLES FOR BOLTS, UNLESS NOTED OTHERWISE (U.N.O.), SHALL BE MADE OVERSIZE AS FOLLOWS:
BOLT DIAMETER 15mm. OR LESS – 2mm. OVERSIZE
BOLT DIAMETER 16mm. & GREATER – 3mm. OVERSIZE

T4. SHANK & THREAD OF BOLTS SHALL BE THOROUGHLY COATED WITH A HEAVY WATERPROOF GREASE BEFORE INSERTING INTO THE TIMBER.

T5. SPECIALISED METAL FASTENERS SUCH AS GANG-NAIL PLATES, TRIP-L-GRIP ETC. SHALL BE OF PROVEN TYPE & SHALL HAVE HAD WORKING LOADS DETERMINED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN AS1849.

T6. AT THE PRACTICAL COMPLETION OF THE CONTRACT, & AGAIN AT THE END OF THE MAINTENANCE PERIOD & IF NECESSARY DURING THAT PERIOD, THE CONTRACTOR SHALL RE-TIGHTEN ALL BOLTS TO APPROVAL. BOLTS THAT WILL BE INACCESSIBLE AFTER COMPLETION OF THE PROJECT, SHALL BE RE-TIGHTENED IMMEDIATELY AFTER TO BEING BUILT.

T7. EDGE DISTANCES FOR FASTENERS IN TIMBER (FROM ENDS AND SIDES) SHALL BE IN ACCORDANCE WITH AS1720.

T8. STRUCTURAL TIMBER REQUIRED TO HAVE AN FRL IN ACCORDANCE WITH THE BCA. TO BE PROTECTED BY PROPRIETARY BOARDS. REFER SPECIFICATION, PROJECT BCA REPORT & RELEVANT DA CONDITION.

T9. TRUSSES SHALL BE CONSTRUCTED ONLY BY A FABRICATOR APPROVED BY THE SUPERINTENDENT. DESIGN SHALL BE IN ACCORDANCE WITH AS1720 & TO THE LOADINGS, PROFILES & TOGETHER WITH REQUIREMENTS SPECIFIED ON THE DRAWINGS. DESIGN OF TRUSSES SHALL BE BY A QUALIFIED STRUCTURAL ENGINEER EXPERIENCED IN TIMBER DESIGN. SHOP DRAWINGS OF TRUSSES, TOGETHER WITH ALL NECESSARY INFORMATION FOR CHECKING THE STRENGTH OF TRUSS MEMBERS & CONNECTORS SHALL BE SUBMITTED NOT LESS THAN FOURTEEN DAYS PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION SHALL NOT COMMENCE UNLESS PERMISSION TO DO SO HAS BEEN GIVEN.

FOR CONSTRUCTION

ISSUE	AMENDMENT	DATE	CHECKED
C	ISSUED FOR CONSTRUCTION	07.08.15	K.M.
B	RE-ISSUED FOR TENDER	16.04.15	K.M.
A	ISSUED FOR TENDER	18.02.15	K.M.
P1	ISSUED FOR 75% TENDER	19.12.14	K.M.

NORTH

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PROJECT
PROPOSED CHILDCARE CENTRE
LEICHARDT PARK

TITLE
GENERAL NOTES

JOB NUMBER	DRAWING NUMBER	REVISION
14210	S0.01	C

DATE	SCALE @ A1
19/12/14	N.T.S.
DESIGNED	DRAWN
K.M.	J.W.

CERTIFIED