

BASIC DESIGN NOTES AND INFORMATION

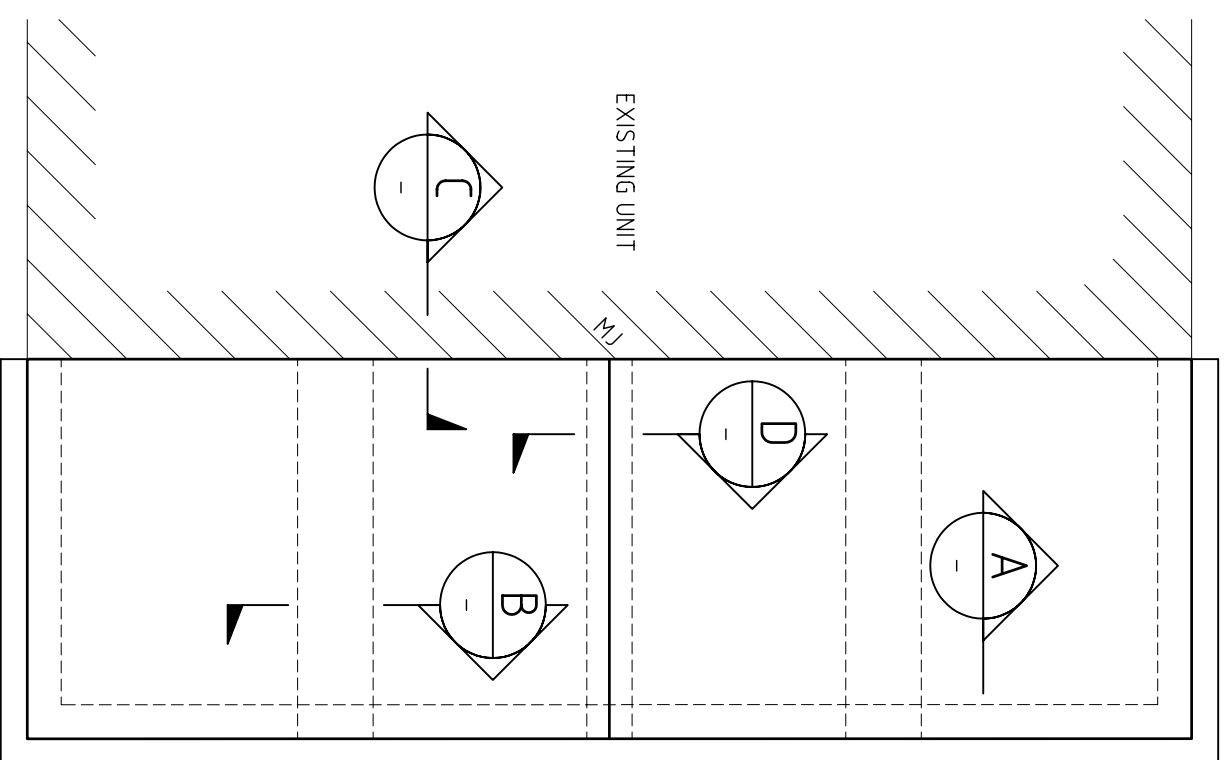
- GENERAL**
1. READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
 2. REFER ANY DISCREPANCY TO ENGINEER.
 3. CHECK DIMENSIONS, DO NOT SCALE.
 4. INTERNAL WALLS ARE TO HAVE NO POINT LOADS IN EXCESS OF 200kg EACH.
 5. A COPY OF THIS DRAWING IS TO BE ON SITE DURING CONSTRUCTION.
 6. THE LATEST EDITION OF ALL AUSTRALIAN STANDARDS SHALL APPLY.
 7. BUILDER TO COMPLETE ALL TIMBER WORKS ACCORDING TO AS1684, INCLUDING MEMBER CONNECTIONS AND THE DOWN REQUIREMENTS.
 8. ALL CONSTRUCTION TO BE ACCORDING TO THE BCA DEMED-10-SATISFY REQUIREMENTS UNDO

- FOUNDATION**
1. THE PROVISIONS OF AS2870 SHALL APPLY.
 2. REMOVE ALL TOP SOIL AND VEGETATION WITHIN THE BUILDING AREA.
 3. DESIGNED FOR AN ALLOWABLE BEARING OF NOT LESS THAN 100kPa FOR 750 BELOW ALL SLABS AND FOOTINGS.
 4. ENGINEER IS TO VERIFY FOUNDATION MATERIAL BEFORE PLACING CONCRETE.
 5. FOUNDATION IS BASED ON THE NATURAL UNDERLYING GROUND BEING CLASS A S @ 0.9 H IN ACCORDANCE WITH AS2870.
 6. FILL MATERIAL TO BE QUALITY SAND WITH LESS THAN 4% CLAY.
 7. COMPACTED UNIFORMITY TO GIVE STANDARD BEARTH PENETROMETER READINGS OF AT LEAST 7 BLOWS/300 BELOW FOUNDING LEVEL OF FOOTING.
 8. DISPOSE OF ALL STORMWATER AWAY FROM FOOTING.

- CONCRETE**
1. THE PROVISIONS OF AS3600 SHALL APPLY.
 2. ALL CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:
 - 20MPa FOR RESIDENTIAL GROUND SLABS AND FOOTINGS
 - 25MPa FOR NON RESIDENTIAL FOOTINGS
 - 32MPa FOR NON RESIDENTIAL GROUND SLABS. ALL SUSPENDED SLABS AND BEAMS
 - 40MPa FOR COLUMNS AND WALLS
 3. THE CONTRACTOR IS TO SUPPLY EVIDENCE THAT CONCRETE IS OF THE STRENGTH SPECIFIED.
 4. ALL CONCRETE PLACED SHALL HAVE A SLUMP OF BETWEEN 80 AND 50 AND A MINIMUM AGGREGATE SIZE OF 20 MAX.
 5. ALL CONCRETE TO BE PLACED WITH AN APPROVED VIBRATOR.
 6. ALL CONCRETE MUST BE CURED BY KEEPING EXPOSED SURFACES CONTINUALLY WET FOR 7 DAYS AFTER POURING, OR EQUIVALENT CURING METHODS.
 7. ALL DUCTS AND PIPES SHALL BE TAKEN BELOW FOOTING UNLESS FOOTINGS ARE STEPPED AROUND DUCTS (OR AS DIRECTED BY ENGINEER).
 8. COVER TO REINFORCING SHALL BE:

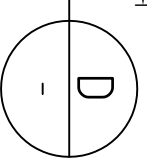
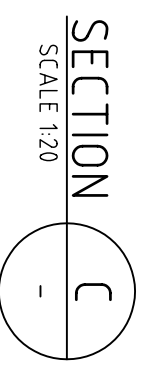
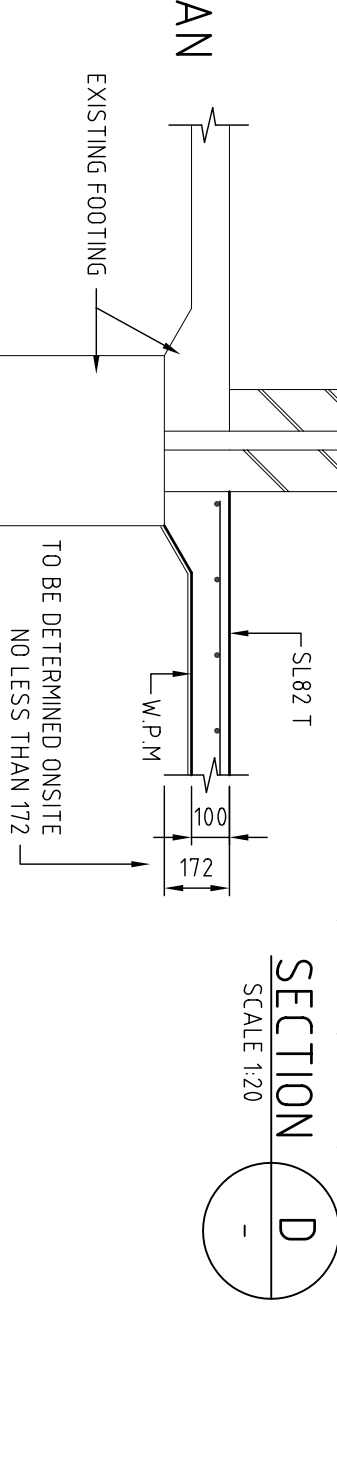
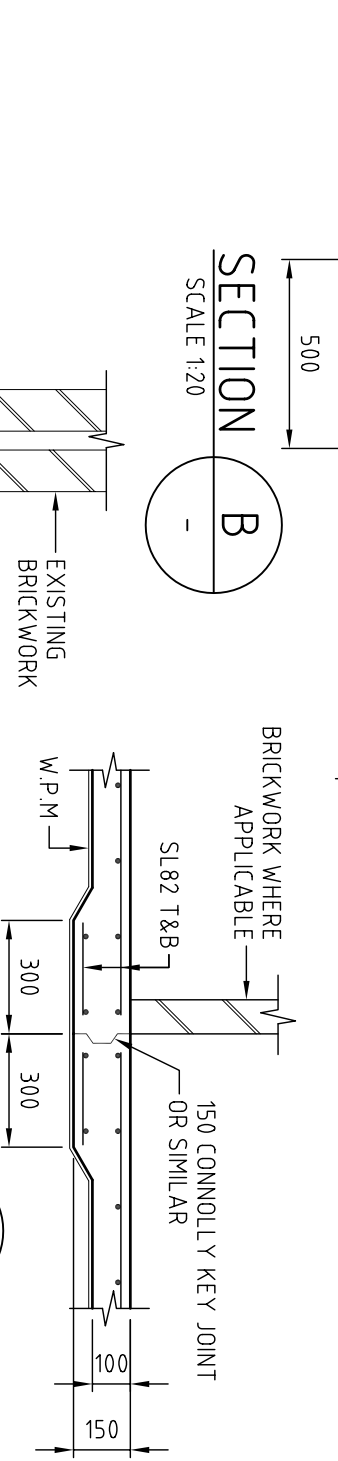
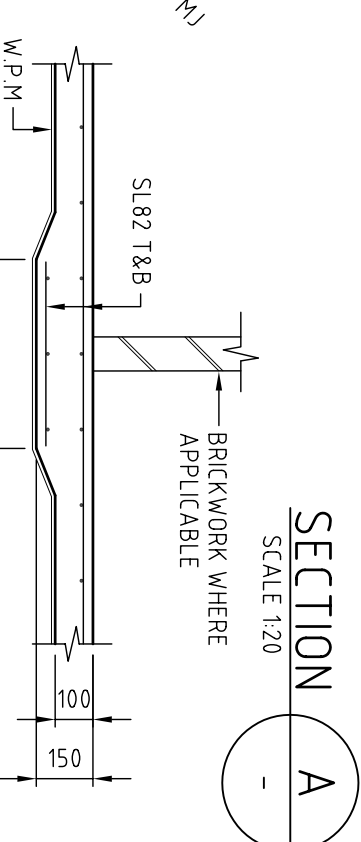
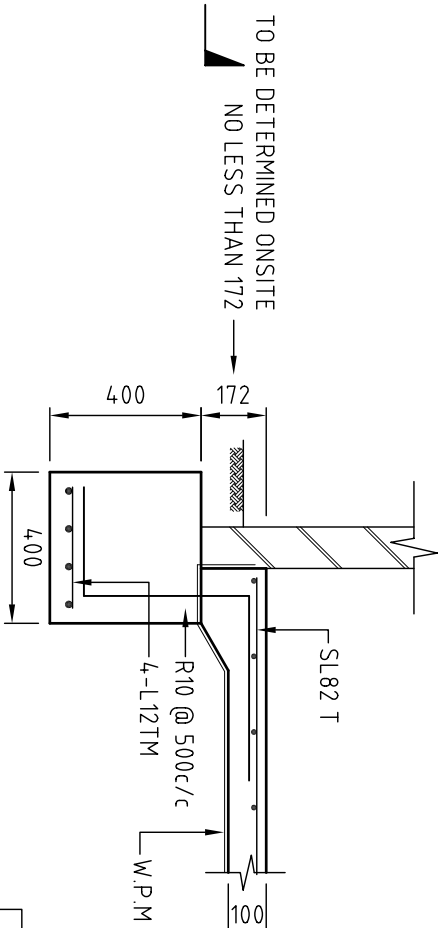
SLABS	INTERNAL	EXTERNAL
BEAMS	20	40
COLUMNS	25	50
FOOTINGS ON GROUND	50	50
 9. IF CONSTRUCTION IS WITHIN 1m OF LARGE EXPANSES OF SALT WATER AND THE COAST LINE THEN INCREASE THE CONCRETE STRENGTH TO 40MPa AND INCREASE THE EXTERNAL COVER BY 10.
 10. CONDUITS AND PIPES SHALL HAVE 25 COVER AND BE LOCATED ABOVE BOTTOM REINFORCEMENT AND BELOW TOP REINFORCEMENT
 11. MINIMUM STRIPPING TIME SHALL BE 14 DAYS FOR SLABS AND BEAM SOFFITS

MIN 1000 LONG CROSS WALL @ 3000c/c
MAX BONDED TO LONGITUDINAL WALLS
WITH MEDIUM DUTY GALVANISED TIES
AT EVERY SECOND COURSE TO ENSURE
STABILITY OF SINGLE LEAF WALL



TYPICAL STOREROOM FOOTING PLAN
SCALE 1:50

THE SITE SOIL CLASSIFICATION HAS BEEN ASSUMED BASED ON A DESK TOP STUDY. CLIENT SHALL REQUEST THE ENGINEER TO INSPECT SITE WHEN CUT PRIOR TO PLACEMENT OF SAND PAD TO VERIFY SOIL CONDITIONS AND DESIGN.



REINFORCEMENT

1. THE PROVISIONS OF AS4671 SHALL APPLY.
2. ALL REINFORCING TO BE DEFORMED BARS GRADE 500, WITH DUCTILITY CLASS L FOR MESH AND N FOR BARS.
3. ALL REINFORCEMENT SHALL BE CLEAN AND FREE FROM RUST, SCALE OR OIL AND OTHER MATTER.
4. MESH SHALL HAVE MIN. SIDE AND ENDLAPS OF 2 CROSS WIRES FROM BOTH FABRICS PLUS 25.
5. ALL REINFORCEMENTS TO BE ACCURATELY POSITIONED AS DIRECTED ON DRAWINGS AND SUPPORTED ON APPROVED CHAIRS AND WIED AT INTERSECTIONS.
6. TWO STRIPS 2000 IN LENGTH OF 3-S.817M, ONE STRIP OF 3-S.117M OR 3-A12 BARS SHALL BE PLACED DIAGONALLY ACROSS A POTENTIAL CRACK AT RE-ENTRANT CORNERS OF ALL SLABS.
7. FRESH REINFORCEMENT MUST BE UNDAMAGED FLAT SHEETS (NOT ROLLS)
8. BARS TO HAVE MINIMUM LAPs OF 40 x DIAMETER

SHRINKAGE CONTROL

WHERE BRITTLE FLOOR COVERINGS ARE TO BE USED, EXTRA MEASURES ARE REQUIRED TO CONTROL THE EFFECT OF SHRINKAGE CRACKING. SUCH MEASURES INCLUDE ONE OR MORE OF THE FOLLOWING:

- A) THE AMOUNT OF SHRINKAGE REINFORCEMENT SHALL BE INCREASED TO SL92 OR EQUIVALENT IN GROUND SLABS
- B) THE BEDDING SYSTEM SHALL BE SELECTED ON THE BASIS OF THE EXPECTED SLAB MOVEMENT AND THE CHARACTERISTICS OF THE FLOOR COVERINGS.
- C) THE PLACEMENT OF FLOOR COVERINGS SHALL BE DELAYED BY MINIMUM 3 MONTHS

MOVEMENT JOINTS (MJ)

THE JOINT/S ARE REQUIRED TO PERMIT DIFFERENTIAL MOVEMENTS. THUS CONTROLLING CRACKING. THE JOINT IS THROUGH WALLS, SLAB AND ALL FINISHES, UNLESS OTHERWISE NOTED. WALL JOINTS TO BE 10 WIDE, FILLED WITH ELASTIC JOINTING MATERIAL.

REVISION	DESCRIPTION	DESIGN	DRAWN	CHECKED	DATE
A	INITIAL DRAWING	TK	JF	MF	27-01-05

CLIENT:	DHW EHZ MPM
PROJECT:	PROPOSED STOREROOMS AND CARPORTS 33 FREDERIC ST KOOINGAMIA
TITLE:	TYPICAL STOREROOM FOOTING PLAN AND DETAILS
DRAWING NUMBER:	9878-02
REVISION:	A

McDowall Affleck

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THIS IS ISSUED FOR

INFORMATION
COMMENT
APPROVAL
TENDER
CONSTRUCTION

DO NOT USE FOR ANY PURPOSE
OTHER THAN THAT INDICATED

SCALE: AS SHOWN
SHEET SIZE: A3

ALL DIMENSIONS IN MILLIMETRES
DO NOT SCALE