

#### **BARNSON PTY LTD**

- t 1300 BARNSON (1300 227 676)
- e generalenquiry@barnson.com.au
- w www.barnson.com.au

bathurst | coffs harbour | dubbo | mudgee orange | sydney | tamworth

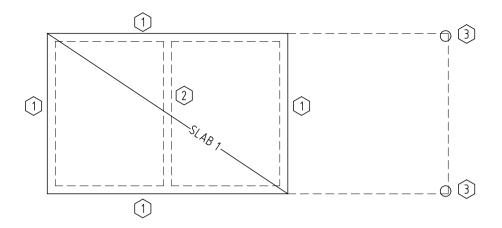
# RESIDENTIAL FOOTINGS DESIGN TO AS2870-2011

Client:

**MARK FURNEY** 

Project Address:

19 LAHY COURT MUDGEE NSW 2850



# SLAB AND FOOTINGS PLAN

#### GEOTECHNICAL NOTES

1. THESE SLAB & FOOTING HAS BEEN DESIGNED FOR A CLASS "M" SITE AS DEFINED BY AS2870-2011, BASED UPON PREVIOUS TESTS IN THE AREA.

#### RAFT SLAB NOTES

A) SLAB 1

- 1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2018
- 2. 100mm THICK SLAB REINFORCED WITH ONE LAYER SL72 MESH ON TOP WITH 20mm COVER. BEAM BTM REINFORCEMENT AS SPECIFIED WITH 50mm COVER.
- 3. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS)
  B) THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING REFERENCE DRAWINGS WHICH FORM PART OF THE PROJECT SPECIFICATION: G1000, G1001, G1002, G1003, G1004, G1005, G1006, G1007 AND 40140-S02.

CONCRETE MEMBER SCHEDULE	
MARK	DETAIL REFERENCE
1	M.30001a
2	M.31021a
$\bigcirc$	M.34125a
REFER TO DRAWING 3777-S02	

FOR BEAM DETAILS 1 to 3





BARNSON PTY LTD

1300 BARNSON (1300 227 676) generalenquiry@barnson.com.au

www.barnson.com.au

bathurst | coffs harbour | dubbo | mudgee | orange | sydney | tamworth

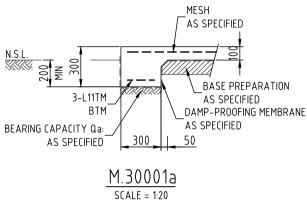
HIS DRAWING IS TO BE READ IN CONJUNCTION
WITH GENERAL BILLIDING DRAWINGS.
SPECIFICATIONS & OTHER CONSULTANTS
DRAWINGS APPLICABLE TO HIS PROJECT.
ALL DIMENSIONS IN MILLIMETRES.
DO NOT SCALE, DIMENSIONS IS OE CHECKED
ON STIES BEFORE COMMENCEMENT OF WORK.
BEFORE COMMENCEMENT OF WORK.
BEFORE COMMENCEMENT OF WITHOUT THE
BEFORE DISCISEDENTIAL STATEMENT OF WITHOUT THE
BEFORE DISCISEDENT OF THE STATEMENT OF THE STATEME

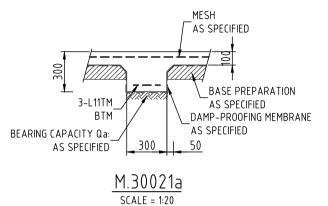
Client: MARK FURNEY
Project: PROPOSED RESIDENCE AT
19 LAHY COURT
MUDGEE NSW 2850
Drawing Title: SLAB & FOOTINGS PLAN

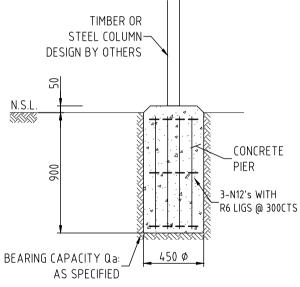
Rev Date Amendment 0 26.09.2022 ISSUED FOR CONSTRUCTION Design LT Certification

Check LM Drav
Original Sheet

Drawing Number 40140-S01







 $\frac{M.34125}{SCALE = 1:20}$ 

#### **ISSUED FOR CONSTRUCTION**



1300 BARNSON (1300 227 676) generalenquiry@barnson.com.au

www.barnson.com.au

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH GENERAL BUILDING DRAWINGS. SPECHIFICATIONS & OTHER CONSULTANTS DRAWINGS APPLICABLE TO THIS PROJECT. ALL DIMENSIONS IN MILLIMERISCE. DO NOT SCALE. DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK. REFORT DISCUSPANCIES TO BANKSON AND A REPORT DISCUSPANCIES OF BANKSON PLY LID.

MARK FURNEY PROPOSED RESIDENCE AT 19 LAHY COURT

MUDGEE NSW 2850 Drawing Title: SLAB & FOOTINGS DETAILS Rev Date Amendment 0 26.09.2022 ISSUED FOR CONSTRUCTION

Design Drawn LT

Check LM Original Sheet

Drawing Number 40140-S02

#### **GENERAL**

- 1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER WORKING DRAWINGS AND SPECIFICATIONS RELEVANT TO THIS PROJECT. ANY DISCREPANCIES SHALL BE REFERRED TO BARNSON PTY LTD FOR A DECISION PRIOR TO PROCEEDING.
- 2. ANY NOTES OR DETAILS APPEARING IN THE "PROJECT SPECIFIC" DRAWING SET ARE TO TAKE PRECEDENCE OVER ANY NOTES OR DETAILS APPEARING IN THE "GENERIC" DRAWING SET.
- 3. DO NOT SCALE FROM THESE DRAWINGS
- 4. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT SAA CODES AND LOCAL AUTHORITY REGULATIONS.
- 5. THE CONTRACTOR SHALL OBTAIN A COPY OF THE SITE GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION, TO FAMILIARISE HIMSELF WITH THE EXPECTED NATURALLY OCCURRING FOUNDATION SOILS.
- 6. IF SOIL IS ENCOUNTERED DURING CONSTRUCTION THAT IS DIFFERENT TO THAT REFFERED TO IN THE GEOTECHNICAL REPORT. BARNSON PTY LTD SHALL BE CONTACTED IMMEDIATELY PRIOR TO FURTHER WORK TAKING PLACE.
- 7. DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION, AND NO PART SHALL BE OVERSTRESSED.
- 8. ALL CARE SHOULD BE TAKEN TO ENSURE THAT ADEQUATE SITE DRAINAGE IS PROVIDED TO ENSURE THAT WATER IS DIVERTED AWAY FROM THE BUILDING DURING AND AFTER CONSTRUCTION.
- 9. ALL FORMWORK SHALL BE IN ACCORDANCE WITH AS3610-1995. 10. PREPOUR INSPECTIONS FOR ALL FOOTINGS AND SLABS SHALL BE CARRIED OUT BY BARNSON PTY LTD OR THE CERTIFYING
- AUTHORITY. 24 HOURS NOTICE FOR INSPECTIONS IS REQUIRED. NO CONCRETE IS TO BE POURED WITHOUT ATTAINING APPROVAL. 11. FOR SLAB ON GROUND, FINISHED SLAB HEIGHTS ABOVE
- EXTERNAL FINISHED SURFACES MUST NOT BE LESS THAN:
  - A) 150mm ABOVE FINISHED GROUND LEVEL
  - B) 100mm ABOVE SANDY, WELL DRAINED AREAS
  - C) 50mm ABOVE EXTERNAL SEALED AREAS THAT HAVE A SLOPE OF NOT LESS THAN 50mm OVER THE FIRST 1m FROM THE BUILDING
- 12. SLABS & FOOTINGS HAVE BEEN DESIGNED BASED ON STANDARD DESIGNS CONTAINED IN SECTION 3 AND ENGINEERING PRINCIPALS CONTAINED IN SECTION 4 OF AS2870-2011, AND ENGINEERING PRINCIPALS FROM AS3600-2009
- 13. DIMENSIONS GIVEN FOR BEAMS AND STRIP FOOTINGS ARE THE MINIMUM REQUIRED AS PER DESIGN PRINCIPALS NOTED ABOVE. IF THERE ARE SITE SPECIFIC REQUIREMENTS TO WIDEN, OR DEEPEN BEAMS OR STRIP FOOTINGS, IT SHALL BE PERFORMED AS FOLLOWS:
  - A) WHERE BEAMS OR STRIP FOOTINGS ARE WIDER THAN THAT SPECIFIED, AN EXTRA BOTTOM BAR OR EQUIVALENT OF THE SAME BAR SIZE IS REQUIRED FOR EACH 100mm ADDITIONAL WIDTH.
  - B) WHERE BEAMS OR STRIP FOOTINGS ARE DEEPER THAN THAT SPECIFIED. THE BOTTOM REINFORCEMENT SPECIFIED IN AS2870 FOR THE GREATER BEAM OR STRIP FOOTING DEPTH IS TO BE USED.
- 14. SITE MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER. CSIRO'S - FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNERS GUIDE - BUILDING TECHNOLOGY FILE 18. SHOULD BE REFERRED TO FOR ONGOING SITE MAINTENANCE REQUIREMENTS.

#### EXCAVATION

- 1. TOPSOIL CONTAINING GRASS ROOTS OR VEGETATION SHALL BE REMOVED FROM THE FOUNDATION AREA. IT SHALL THEN BE PROOF ROLLED PRIOR TO FILLING.
- 2. FOOTING EXCAVATIONS MUST BE FREE OF LOOSE EARTH. TREE ROOTS, MUD OR DEBRIS IMMEDIATELY BEFORE POURING CONCRETE.
- 3. EXCAVATION FOR FOOTINGS, INCLUDING THICKENINGS FOR SLABS AND PADS MUST BE CLEAN CUT WITH VERTICAL SIDES. WHEREVER POSSIBLE.
- 4. FOR EXCAVATION REQUIREMENTS ON SLOPING SITES WHERE STEPPED BEAMS OR STEPPED STRIP FOOTINGS ARE TO BE USED, PLEASE REFER GENERIC DRAWING G1002
- 5. BARNSON PTY LTD SHOULD BE CONSULTED BEFORE COMMENCING ANY EXCAVATIONS NEAR THE EDGE OF A BUILDING.
- 7. WHERE PROPOSED FOOTINGS ARE NEAR EXISTING BUILDINGS OR SERVICES, BARNSON PTY LTD MUST BE CONTACTED AS DESIGN CHANGES MAY BE NECESSARY.
- 8. FOR ALLOWABLE EMBANKMENTS, FILL & CUT TYPE EXCAVATIONS, PLEASE REFER GENERIC DRAWING G1005. TO BE READ IN CONJUNCTION WITH SECTION 6 OF AS2870-2011, AND BCA VOLUME 2, PART 3.1.1 FOR ADDITIONAL INFORMATION.

#### BASE PREPARATION - FILL

1. FILLING USED IN THE CONSTRUCTION OF A SLAB, EXCEPT WHERE THE SLAB IS SUSPENDED, SHALL CONSIST OF CONTROLLED FILL AS FOLLOWS:

#### CONTROLLED FILL

- A) MINIMUM 100mm DEEP MAXIMUM 300mm DEEP UNDER PERIMETER FOOTINGS. IT SHALL BE WELL COMPACTED IN 150mm LAYERS BY A MECHANICAL ROLLER TO A MINIMUM 95% STANDARD COMPACTION FOR A SINGLE STORY DWELLING, AND 98% STANDARD COMPACTION FOR A DOUBLE STORY DWELLING. FILL SHALL BE OF LESS REACTIVITY THAN NATURAL SOIL.
- 2. FILL WITH A GREATER DEPTH THAN THAT SPECIFIED ABOVE SHALL BE INSTALLED AND CERTIFIED BY A NATA ACCREDITED LABORATORY IN ACCORDANCE WITHAS3798-2007, LEVEL 2.
- 3. FILL SHALL BE EXTENDED PAST THE EDGE OF THE RESIDENCE AND SHALL BE RETAINED OR BATTERED BY A SLOPE AS SPECIFIED ON DRAWING G1004 OF THE GENERIC DRAWING SET. FOR FILLING REQUIREMENTS IN RELATION TO EDGE BEAMS, PLEASE REFER GENERIC DRAWING G1004.

## BASE PREPARATION - FOUNDATIONS

- 1. FOUNDATION MATERIAL, WHETHER NATURALLY OCCURRING OR FILL, SHALL HAVE A MINIMUM UNIFORM ALLOWABLE BEARING CAPACITY (Qa) OF 100 kPa
- 2. ALL TESTING TO BE UNDERTAKEN BY A NATA REGISTERED LABORATORY.
- 3. THE ATTACHED PROJECT SPECIFIC RESIDENTIAL FOOTING DESIGN, HAS BEEN PREPARED BASED ON A SITE CLASSIFICATION CARRIED OUT IN ACCORDANCE WITH AS2870-2011. REFER PROJECT SPECIFIC PLAN FOR METHOD USED.
- 4. INTERNAL BEAMS/RIBS AND SLAB PANELS SHALL BE FOUNDED ON CONTROLLED OR ROLLED FILL.
- 5. ALL EDGE BEAMS SHALL BE FOUNDED IN NATURAL SOIL OR CONTROLLED FILL, UNLESS SUPPORTED BY PIERS.

#### DAMP-PROOFING MEMBRANE

- 1. A DAMP-PROOFING MEMBRANE CONSISTING OF A 0.2mm NOMINAL THICKNESS POLYETHYLENE FILM, SHALL BE PLACED UNDER ALL SLABS & BEAMS AND EXTEND TO FINISH AT GROUND LEVEL TO THE SLAB PERIMETER U.N.O.
- 2. IT SHALL BE HIGH IMPACT RESISTANT IN ACCORD WITH CLAUSES 5.3.3.2 AND 5.3.3.3 OF AS2870-2011, AND BE BRANDED CONTINUOUSLY "AS2870 CONCRETE UNDERLAY, 0.2mm HIGH IMPACT RESISTANCE"
- 3. IT SHALL BE INSTALLED WITH MIN 200mm LAPS AT ALL JOINTS. AND TAPED OR SEALED WITH A CLOSE FITTING SLEEVE AROUND SERVICE PENETRATIONS.

#### REINFORCEMENT

- 1. ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS/NZS 4671-2001.
- 2. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- 3. REINFORCEMENT DESIGNATIONS AS FOLLOWS:
  - A) N GRADE 500N HS DEFORMED BAR
  - B) R GRADE 250R HOT ROLLED BAR
  - C) SL GRADE 500L SQUARE MESH
- D) TM GRADE 500L TRENCH MESH 4. FOR LAPPING JOINTS OF SLAB FABRIC, PLEASE REFER DRAWING G1002 AS3700-2001. OF THE GENERIC DRAWING SET FOR DETAILS.
- 5. TRENCH MESH SHALL BE SPLICED WHERE NECESSARY BY A LAP OF 500mm.
- 6. REINFORCEMENT BARS TO BE LAPPED AS FOLLOWS:
  - A) MESH-2 OUTER BARS OVERLAPPED WITH 2 OUTERBARS+20mm
  - B) N12 BARS = 500mm MIN
  - C) N16 BARS = 700mm MIN
- 7. ALL REINFORCEMENT IS TO BE ADEQUATELY SUPPORTED IN ITS REQUIRED POSITION. SUPPORT CHAIRS ARE TO BE AT 800mm MAX CENTRES, BOTH DIRECTIONS.
- 8. SERVICE PENETRATIONS SHALL BE APPROVED BY BARNSON PTY LTD PRIOR TO POURING. ALL SERVICES THAT PENETRATE CONCRETE MEMBERS SHALL BE LAGGED OR SLEEVED. PLEASE REFER GENERIC DRAWING G1003 FOR DETAILS.
- 9. NO CHASES OR HOLES ARE TO BE MADE IN CONCRETE MEMBERS U.N.O. WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- 10. PLEASE REFER GENERIC DRAWING G1002 FOR REINFORCEMENT REQUIREMENTS ON SLOPING SITES WHERE STEPPED BEAMS OR STEPPED STRIP FOOTINGS ARE TO BE USED, AND FOR WHERE "L" AND "TEE" INTERSECTIONS OF BEAMS OCCUR...

#### CONCRETE

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2009, FORMWORK TO AS3610-1995
- 2. CONCRETE SHALL NOT BE POURED WHEN THE AIR TEMPERATURE IS GREATER THAN 38 DEGREES. OR LESS THAN 5 DEGREES CELSIUS WITHOUT APPROVAL FROM BARNSON PTY LTD.
- 3. CONCRETE SHALL BE GRADE N20 (20MPa STRENGTH AT 28 DAYS), HAVE A 20mm NOMINAL AGGREGATE SIZE, AND HAVE A NOMINAL 100mm SLUMP.
- 4. NO ON SITE WATER IS TO BE ADDED TO THE CONCRETE WITHOUT PERMISSION OF BARNSON PTY LTD.
- 5. ALL CONCRETE IS TO BE VIBRATED
- 6. CONCRETE IS TO BE CURED A MIN OF 7 DAYS
- 7. COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
  - A) WAFFLE POD SLAB PANELS = 20mm (TOP)
  - B) RAFT SLAB PANELS = 30mm (TOP)
  - C) WAFFLE POD RIBS = 30mm (SIDE)
  - D) WAFFLE AND RAFT SLAB BEAMS = 50mm (BOTTOM &
  - E) STRIP & PAD FOOTINGS = 50mm (ALL SIDES)

#### MASONRY

- 1. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH
- 2. MASONRY SHALL NOT BE CONSTRUCTED ON CONCRETE ELEMENTS WITHIN 14 DAYS OF CASTING WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- 3. ARTICULATION OF MASONRY SHALL BE IN ACCORDANCE WITH TECHNICAL NOTE 61 BY THE CEMENT, CONCRETE & AGGREGATES AUSTRALIA. www.concrete.net.au

#### SITES WITH SALINE AND SULFATE SOILS

- 1. IN AREAS ADVISED BY THE LOCAL AUTHORITY TO HAVE AGGRESSIVE SOILS THE FOLLOWING MINIMUM REQUIREMENTS ARE TO TAKE PRECEDENCE OVER ANY NOTATION WITHIN THE DRAWING SET:
  - A) THE DAMP-PROOFING MEMBRANE SHALL CONSIST OF A SUITABLE 0.5mm THICK DAMP-PROOFING MATERIAL COMPLYING WITH AS/NZS 2904 AND LAPPED A MINIMUM OF 75mm VERTICALLY OR HORIZONTALLY. DAMP-PROOFING MEMBRANE IS TO BE INSTALLED AND TERMINATED AT FINISHED GROUND OR PAVING LEVEL.
  - B) CONCRETE IS TO BE MINIMUM GRADE N32 (32 MPa STRENGTH AT 28 DAYS AGE). ACTUAL CONCRETE GRADE TO BE UTILISED ON SITE IS TO BE IN ACCORDANCE WITH TABLE 5.3 OF AS2870-2011. TABLE 5.3 IS TO BE READ IN CONJUNCTION WITH TABLES 5.1 AND 5.2 OF AS2870-2011 FOR SITE EXPOSURE CLASS FOR SALINE OR SULFATE SOILS.

## LOADING NOTES

1. ALL LOADS ARE ACCORDING TO AS1170.1-2002 2. LIVE LOADS: 1.5 kPa RESIDENTIAL



Offices Located Dubbo, Mudgee, Parkes & Bathurst

Contact Us



NATA

Project: GENERIC PROJECT REQUIREMENTS TO AS2870-2011

RAFT SLABS

Client: RESIDENTIAL FOOTING DESIGN GENERIC DRAWING SET

Drawing Title:

RESIDENTIAL SLAB AND FOOTING DESIGN GENERAL NOTES

Design Drawn NIK NIK Check ΠA

Drawing Sheet A3 - Scales as noted

Rev Date Amendment

UPDATED TO AS 2870-2011 UPDATE ALL NOTES FOR GENERIC SET

INCLUSION IN GENERIC DRAWING SET Drawing Number

G1000

Certification

### LEGEND OF DIAGRAMMATIC REFERENCES



DENOTES 3-N12 BARS x 2000 LONG OR 3-L11TM x 2000 LONG TIED TO UNDERSIDE OF MESH



DENOTES MASONRY ARTICULATION JOINTS ARTICULATION OF MASONRY SHALL BE IN ACCORDANCE WITH TECHNICAL NOTE 61 - AUGUST 2008 BY THE CEMENT, CONCRETE & AGGREGATES AUSTRALIA. www.concrete.net.au



BLOCKWORK ARTICULATION JOINT. REFER SPECIFIC DETAIL. TO BE POSITIONED AT 6m MAXIMUM CENTRES.



DENOTES TOOL JOINT OR SAW CUT REFER MARK FOR DETAIL

CJX

DENOTES CONSTRUCTION JOINT - REFER MARK FOR DETAIL



DENOTES SLAB RECESS. REFER SPECIFIC DETAILS. REFER ARCHITECTURAL DRAWINGS FOR DEPTH



DENOTES SHOWER RECESS. REFER SPECIFIC DETAIL



DENOTES SLAB STEP - REFER MARK FOR DETAIL



DENOTES FALLING LEVELS TO FINISHED SURFACE OF SLAB



DENOTES BEARING PIERS BELOW REFER MARK FOR DETAILS



DENOTES SPAN DIRECTION OF SUSPENDED SLAB PERMANENT FORMWORK - e.g. BONDEK OR CONDEK REFER PROJECT SPECIFIC DESIGN FOR SPECIFICATIONS.

### GLOSSARY OF TERMS

- F.S.L. FINISHED SURFACE LEVEL AT COMPLETION OF CONSTRUCTION & LANDSCAPING
- N.S.L. NATURAL SURFACE LEVEL OF SOIL EXPOSED ON SITE AFTER STRIPPING OF TOPSOIL



Offices Located Dubbo, Mudgee, Parkes & Bathurst

Contact Us t. 1300 138 657





Client: RESIDENTIAL FOOTING DESIGN GENERIC DRAWING SET

Project:

GENERIC PROJECT REQUIREMENTS TO AS2870-2011 RAFT SLABS

Drawing Title: LEGEND OF DIAGRAMATIC REFERENCES AND GLOSSARY OF TERMS

Drawn Design Check QA

Drawing Sheet

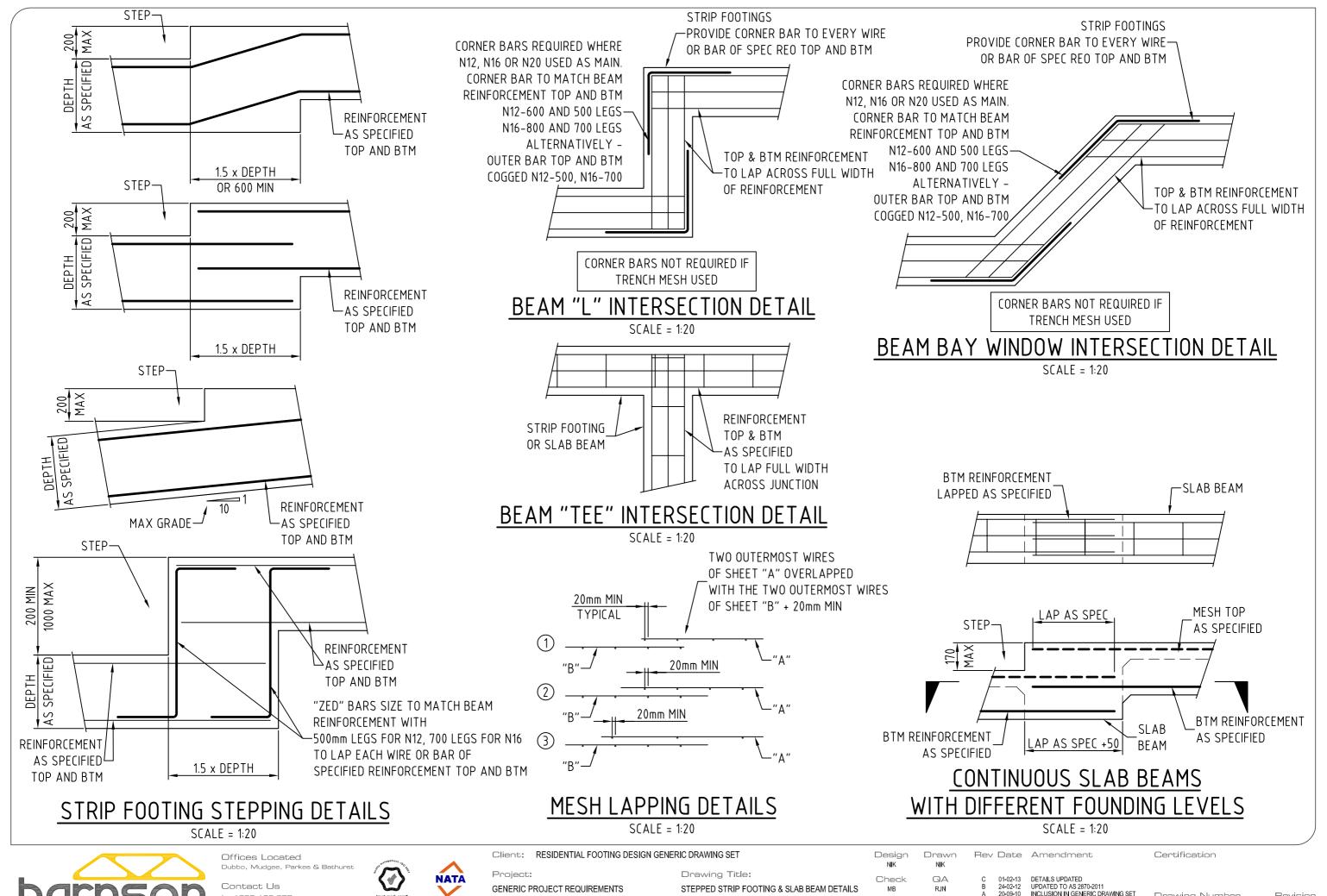
A3 - Scales as noted

Rev Date Amendment

Certification

B 24-02-12 UPDATED TO AS 2870-2011
A 20-09-10 INCLUSION IN GENERIC DRAWING SET

Drawing Number G1001







TO AS2870-2011 RAFT SLABS

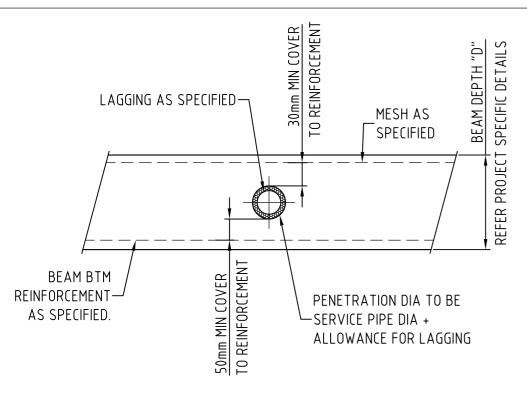
"L" AND "TEE" INTERSECTION DETAILS MESH LAPPING DETAILS

Drawing Sheet

A3 - Scales as noted

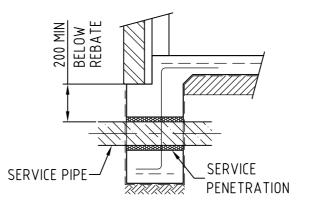
Drawing Number G1002

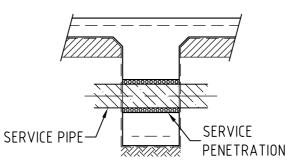
Revision  $\Box$ 



## HORIZONTAL SERVICE PIPE PENETRATION THRU MIDDLE THIRD OF BEAM

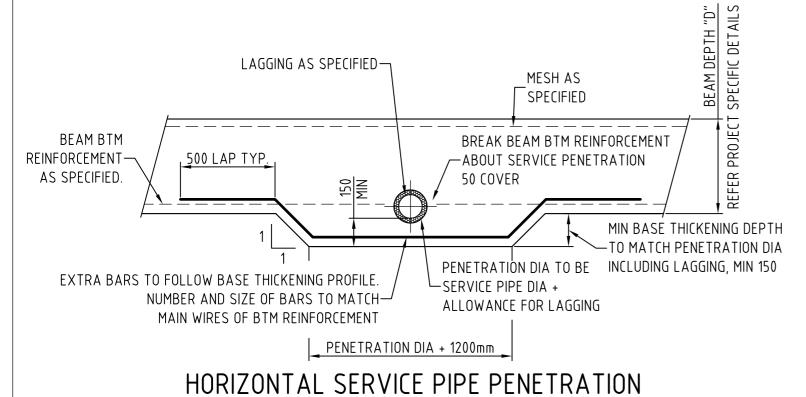
**SCALE = 1:20** 





## SERVICE PIPE PENETRATION TYPICAL SECTIONS THRU BEAMS

**SCALE = 1:20** 



## SERVICE PENETRATION NOTES

- 1. HORIZONTAL SERVICE PENETRATIONS AS DEPICTED ARE DESIGNED TO SUIT PIPES UP TO A MAXIMUM DIAMETER OF ONE THIRD OF THE DESIGN BEAM DEPTH. i.e. D/3.
- 2. ALL HORIZONTAL PIPE PENETRATIONS THROUGH SLAB BEAMS OR RIBS ARE TO BE WRAPPED IN CLOSED CELL POLYETHYLENE LAGGING TO SUIT THE SITE CLASSIFICATION. NO LAGGING IS REQUIRED FOR SITE CLASSIFICATIONS A AND S. LAGGING SHALL BE A MINIMUM 20mm THICK ON CLASS M, M-D, H1 AND H1-D SITES. LAGGING SHALL BE A MINIMUM 40mm THICK ON CLASS H2, H2-D AND E SITES. OR ALTERNATIVELY PROVIDE SLEEVE WITH SIMILAR ALLOWABLE MOVEMENT.
- 3. LAGGING NOT REQUIRED FOR VERTICAL SERVICE PANEL PENETRATIONS



Offices Located Dubbo, Mudgee, Parkes & Bathurs

Contact Us





GENERIC PROJECT REQUIREMENTS

Client: RESIDENTIAL FOOTING DESIGN GENERIC DRAWING SET

Project:

TO AS2870-2011

RAFT SLABS

Drawing Title: SLAB AND BEAM SERVICE PENETRATION DETAILS Design Drawn QΑ

A3 - Scales as noted

Rev Date Amendment

DETAILS AND NOTES UPDATED

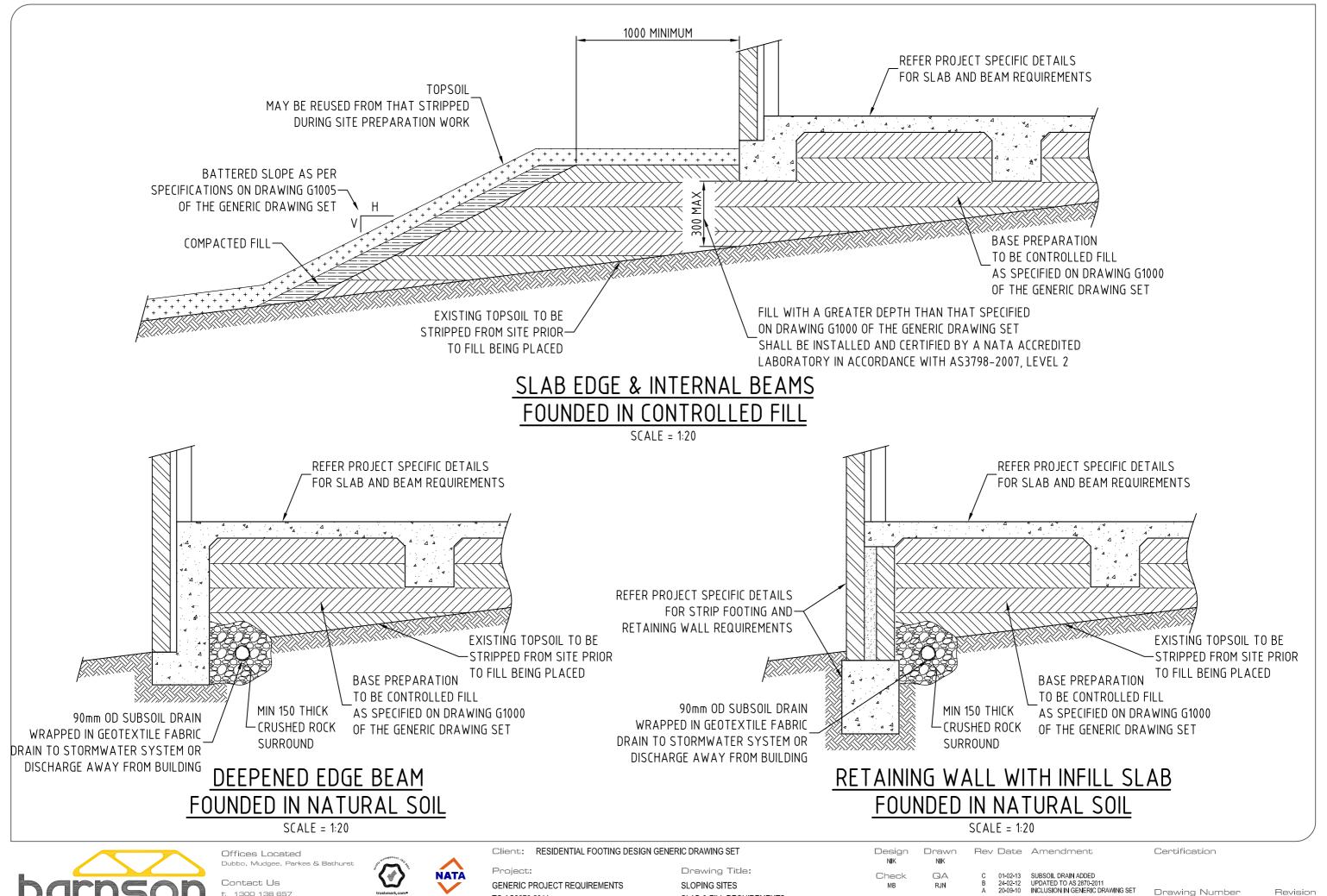
INCLUSION IN GENERIC DRAWING SET

Certification

Drawing Number

Revision  $\Box$ 

Drawing Sheet







TO AS2870-2011

RAFT SLABS

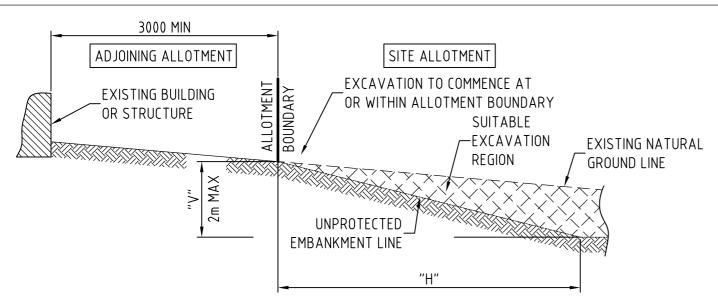
SLAB & FILL REQUIREMENTS

Drawing Sheet

A3 - Scales as noted

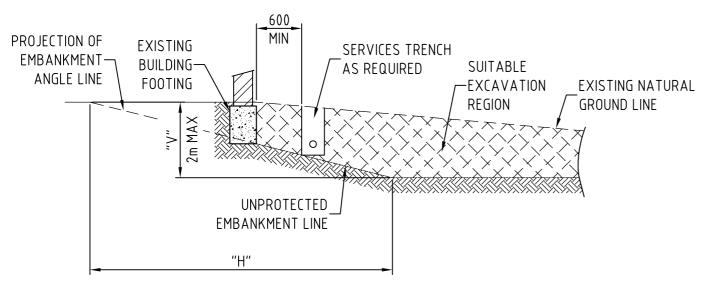
Revision

G1004

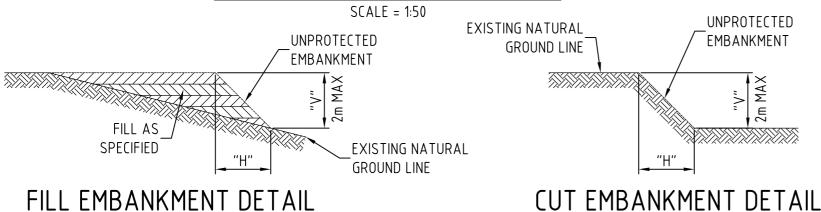


# PERMANENT OR TEMPORARY EXCAVATION WORKS ADJACENT ADJOINING ALLOTMENT

**SCALE = 1:50** 



# TEMPORARY EXCAVATION WORKS ADJACENT EXISTING BUILDINGS



FILL EMBANKMENT DETAIL

SCALE = 1:50



**SCALE = 1:50** 

Project:

GENERIC PROJECT REQUIREMENTS TO AS2870-2011

Drawing Title: **EXCAVATION REQUIREMENTS FOR WORKS** AND GENERAL CUT & FILL REQUIREMENTS

Drawn Desian

**EXCAVATION NOTES** 

"UNPROTECTED EMBANKMENTS" TABLE.

BUILDING FOOTING.

5. FILL SHALL BE PLACED AS FOLLOWS:

DRAWING G1000.

SIMILAR WORKS TO PREVENT SOIL EROSION.

BE INSTALLED WHERE:

3. EXCAVATION ADJACENT EXISTING BUILDINGS:

THE COMPLETION OF WORKS.

RETAINED.

1. ANY PERMANENT VERTICAL OR NEAR VERTICAL EXCAVATION WITHIN 2m

OF A BUILDING. AND DEEPER THAN 600mm SHALL BE BATTERED OR

2. THE GRADIENT OF UNPROTECTED EMBANKMENT FOR EXCAVATION

OTHER SIMILAR WORKS ARE TEMPORARY.

"UNPROTECTED EMBANKMENTS" TABLE.

EQUIPMENT TO ATTAIN STABILITY.

UNPROTECTED EMBANKMENTS

THE "UNPROTECTED EMBANKMENTS" TABLE.

6. EMBANKMENTS THAT ARE TO BE LEFT EXPOSED AT THE END OF CONSTRUCTION WORKS MUST BE STABILISED BY VEGETATION OR

COMPACTED FILL

V : H GRADIENT RATIO

2:3

1:2

1:2

NOT SUITABLE

NOT SUITABLE

1:4

FROM THE "UNPROTECTED EMBANKMENTS" TABLE.

INCLUDING BOTH CUT AND FILL SHALL BE ASCERTAINED FROM THE

A) EXCAVATION WORK FOR FOOTINGS, DRAINAGE TRENCHES OR

SOON AS PRACTICABLE AFTER EXPOSING THE EXISTING

C) THE EXISTING FOOTING SHOULD NOT REMAIN EXPOSED AFTER

A) THE GRADIENT RATIO IS GREATER THAN THAT DESCRIBED IN THE

B) SITE SOIL CLASSIFICATION OR DESCRIPTION IS NOT DESCRIBED IN

A) THE GRADIENT RATIO OF FILL DETAILS SHALL BE ASCERTAINED

C) WHERE FILL IS TO BE USED TO SUPPORT FOOTINGS OR SLABS. IT SHALL BE CONTROLLED FILL AS DESCRIBED IN GENERIC

B) GENERAL FILL SHALL BE PLACED AND COMPACTED IN LAYERS WITH A VIBRATING PLATE OR SIMILAR COMPACTION

4. RETAINING WALLS OR OTHER TYPES OF SOIL RETAINING METHODS MUST

B) ELEMENTS REQUIRED SHOULD BE INSTALLED & CONSTRUCTED AS

Rev Date Amendment

Certification

CUT

V : H GRADIENT RATIO

8:1

1:2

1:1

2:3

NOT SUITABLE

1:4

Revision

Offices Located

Contact Us



NATA

RAFT SLABS

ADJACENT EXISTING BOUNDARIES & STRUCTURES

Drawing Sheet A3 - Scales as noted

SITE CLASSIFICATION OR

NATURAL SOIL MATERIAL DESCRIPTION

CLASS "S", "M", "M-D" - FIRM CLAY

CLASS "S", "M", "M-D" - SOFT CLAY

CLASS "H1", "H1-D", "H2", "H2-D",

CLASS "A" - STABLE ROCK

CLASS "A" - SAND

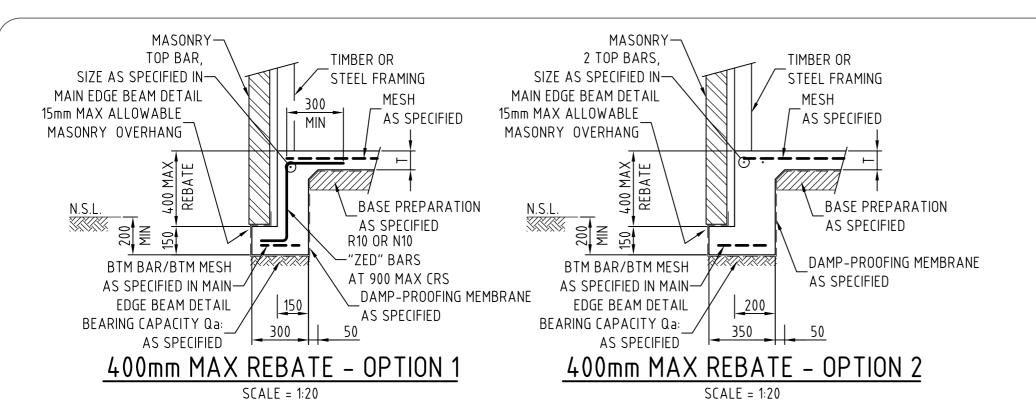
"P" - SOFT SOILS

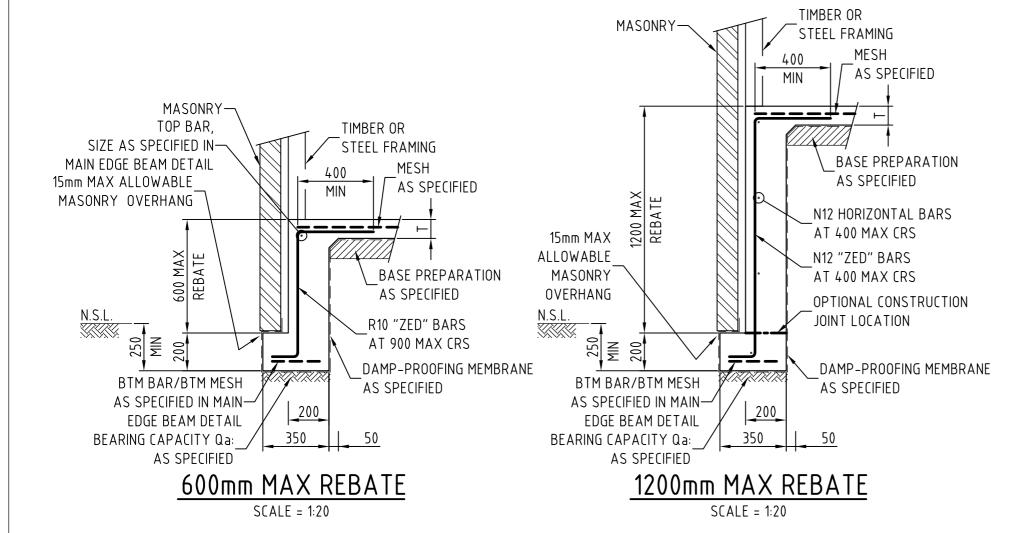
CLASS "P" - SILT

INCLUSION IN GENERIC DRAWING SET

Drawing Number G1005

В





## DEEPENED EDGE BEAM NOTES

- 1. DEEPENED EDGE BEAMS ACCORDING TO THE METHOD OF CONSTRUCTION DEPICTED MAY BE UTILISED IN LIEU OF ANY STANDARD EDGE BEAM DETAILS PROVIDED WITHIN THE PROJECT SPECIFIC DRAWING SET, TO SUIT SITE REQUIREMENTS.
- 2. FOR PROJECTS REQUIRING DESIGN BEYOND THE PARAMETERS PROVIDED, PLEASE REFER BACK TO BARNSON PTY LTD FOR ADDITIONAL DESIGN



Offices Located Dubbo, Mudgee, Parkes & Bathurs

Contact Us



Client: RESIDENTIAL FOOTING DESIGN GENERIC DRAWING SET

TO AS2870-2011

RAFT SLABS

GENERIC PROJECT REQUIREMENTS

Drawing Title:

DEEPENED EDGE BEAM DETAILS

Design Drawn QA

Drawing Sheet

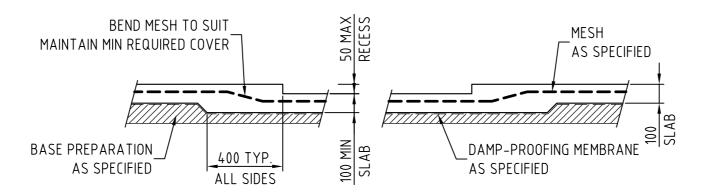
A3 - Scales as noted

Rev Date Amendment

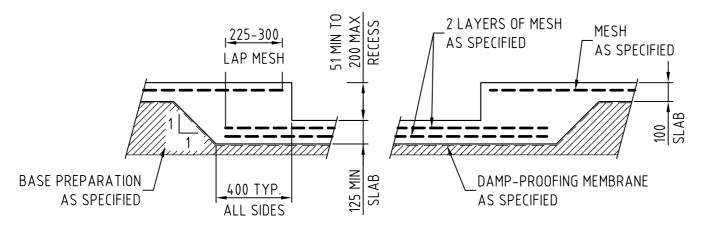
MEMBRANE LOCATION ADJUSTED 20-09-10 INCLUSION IN GENERIC DRAWING SET Certification

Drawing Number G1006

Revision  $\Box$ 

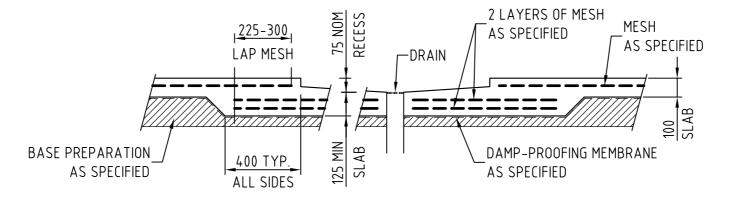


## SHALLOW RECESS



# **DEEP RECESS**

SCALE = 1:20



## SHOWER RECESS

SCALE = 1:20



Offices Located Dubbo, Mudgee, Parkes & Bathurst

Contact Us

t 1300 138 657





NATA

Client: RESIDENTIAL FOOTING DESIGN GENERIC DRAWING SET

Project:

TO AS2870-2011

RAFT SLABS

GENERIC PROJECT REQUIREMENTS

Drawing Title: SLAB RECESSES

Design Drawn NIK NIK QA Check

Drawing Sheet

A3 - Scales as noted

RJN

Rev Date Amendment

Certification

B 24-02-12 UPDATED TO AS 2870-2011 A 20-09-10 INCLUSION IN GENERIC DRAWING SET

Drawing Number G1007