



PROJECT ADDRESS:

**NO.6
ELIZABETH STREET
MELTON SOUTH**

GENERAL

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- G2. ANY DISCREPANCY IN THE DOCUMENTATION SHALL BE REFERRED TO THE ENGINEER FOR WRITTEN INSTRUCTION PRIOR TO COMMENCING WORKS.
- G3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS AND OF ALL RELEVANT AUTHORITIES, EXCEPT WHERE VARIED BY THE PROJECT DOCUMENTATION.
- G4 ALL DIMENSIONS ARE TO BE OBTAINED FROM THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.
- G5. IT IS CONTRACTOR'S RESPONSIBILITY FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART OF THE STRUCTURE IS OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES. AS4801 AND THE REQUIREMENTS OF ALL RELEVANT AUTHORITIES ARE TO BE COMPLIED WITH.
- G6. THE DESIGN/DRAWINGS ARE PART OF THE BUILDING CONTRACT ENTERED INTO BY THE CLIENT. ANY SUBSTITUTION WILL VOID THE CERTIFIED DESIGN. WRITTEN AUTHORITY FOR SUBSTITUTIONS CAN ONLY BE GIVEN BY THE SUPERINTENDENT AND ONLY THEN SUBJECT TO RE-CERTIFICATION.
- G7. ANY DEFECT OR DEVIATION FROM THE CONTRACT DOCUMENTS THAT REQUIRES ASSESSMENT AND DETERMINATION OF CORRECTIVE MEASURES BY THE ENGINEER SHALL BE UNDERTAKEN AT THE CONTRACTOR'S EXPENSE.
- G8. WATERPROOFING TO ARCHITECT'S DETAILS.
- G9. THE APPLIED LIVE LOADS FOR WHICH VARIOUS STRUCTURAL ELEMENTS HAVE BEEN DESIGNED ARE AS FOLLOWS:

AREA	LIVE LOAD
FLOOR	1.5 KPA
GARAGE	2.5 KPA
ROOF	0.25 KPA
BALCONY	2.0 KPA

SLAB PROTECTION FROM TREES

- SP1. IF SITE CLASSIFIED AS M, H1, H2, E OR P ALL TREES (PROPOSED AND EXISTING) WITHIN 10m OF THEIR ASSUMED MATURE TREE DRIP-LINE ARE TO BE SEPARATED FROM THE FOOTINGS BY THE MEANS OF THE ROOT BARRIER AS PER AS2870.
- SP2. U.N.O. FOR ALL PROPOSED AND RECENTLY PLANTED TREES REGARDLESS IF ON SITE OR NATURE STRIP OR ADJOINING PROPERTY PROVIDE PROPRIETARY ROOT BARRIER DETAIL AWAY FROM SLAB (WITHIN SITE). USE ANGLE OF REPOSE DETAIL IF SLAB AFFECTED BY WORKS. MIN DEPTH OF BARRIER 2.5m OR TO ROCK. DO NOT CUT ROOTS WITHOUT APPROVAL-BY OTHERS.
- SP3. ALL EXISTING TREES - REFER TO NOTES ON THESE PLANS. REPORT ANY DISCREPANCY PRIOR TO WORK COMMENCE.

STRUCTURAL STEELWORK

- S1. ALL MATERIALS, WORKMANSHIP, FABRICATION AND ERECTION SHALL COMPLY WITH AS1538, AS15354, AS3828, AS4100, THE PROJECTSPECIFICATION AND THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.
- S2. WELDING IS TO BE DONE BY AN EXPERIENCED WELDER AND IN ACCORDANCE WITH AS1554.
- S3. HIGH STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH AS1511.
- S4. THE ENDS OF ALL HOLLOW SECTION MEMBERS ARE TO BE SEALED WITH 6mm PLATE CONTINUOUSLY FILLET WELDED.
- S5. DURING CONSTRUCTION CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION AND UNTIL PERMANENT BRACING INSTALLED.
- S6. CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS, ETC., TO BE 2.5mm FOR EVERY 1m OR SPAN U.N.O.
- S7. FABRICATOR TO PROVIDE CLEATS AND HOLES AS REQUIRED FOR CONNECTIONS TO ALL OTHER STRUCTURAL ELEMENTS.
- S8. EXCEPT WHERE NOTED OTHERWISE CONNECTIONS ARE TO BE 6mm CONTINUOUS FILLET WELDS, 2-M16 HIGH STRENGTH BOLTS IN 2mm CLEARANCE HOLES AND 10mm THICK CLEAT PLATES.
- S9. STEELWORK TO BE CONCRETE ENCASED SHALL BE COMPLETELY WRAPPED WITH FGW41 GIRDER MESH CENTRALLY PLACED. CONCRETE ENCASING TO BE 50mm MINIMUM.
- S10. ALL STEEL LINTELS ARE TO HAVE 110mm MIN. END BEARING; BEAMS TO HAVE 230mm, UNLESS OTHERWISE NOTED.
- S11. HOT ROLLED SECTIONS AND PLATE SHALL BE GRADE 300 IN ACCORDANCE WITH AS3679. HOLLOW SECTIONS SHALL BE GRADE 350 IN ACCORDANCE WITH AS1163.PURLINS AND GIRTS SHALL BE ZINCLALUME AND GRADE 450 IN ACCORDANCE WITH AS1538 UNLESS NOTED OTHERWISE ON THE
- S12. ALL STEELWORK BELOW GROUND OR FINISHED SURFACE LEVEL SHALL BE COATED WITH 2 COATS OF AN APPROVED EPOXY PAINT PROTECTED BY A 75mm COVER OF CONCRETE.
- S13. ALL EXTERNAL OR EXPOSED STEELWORK TO BE HOT DIP GALVANIZED TO B.C.A.
- S14. ALL GALVANIZED STRUCTURAL STEELWORK IN CONTACT WITH THE GROUND IS TO BE COATED WITH DULUX DURABUILD STE TO 100mm ABOVE FINISHED SURFACE LEVEL. REFER MANUFACTURERS SPECIFICATION FOR APPLICATION.

MASONRY

- M1. ALL MASONRY AND ITS TESTING SHALL COMPLY WITH THE CURRENT AS3700.
- M2. THE CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH SHALL BE 4.0MPa FOR BRICKS AND 15MPa FOR BLOCKS, UNLESS NOTED OTHERWISE.
- M3. THE PROP. OF CEMENT: LIME: SAND IN THE MORTAR SHALL BE 1:1/4:3 FOR LOAD BEARING WALLS AND 1:1:6 FOR INFILL WALLS.
- M4. SLOTS SHALL BE PROVIDED TO THE BASE OF ALL VOIDED AREAS TO BE CONCRETE FILLED TO ENABLE COMPLETE THOROUGH REMOVAL AND CLEANING OUT OF MORTAR FINS AND DROPPINGS.
- M5. BOND BEAMS SHALL BE PROVIDED OVER ALL OPENINGS AND TO THE TOPS OF ALL BLOCKWORK WALLS.
- M6. GROUT TO BOND BEAMS, CORES AND CAVITIES SHALL BE 20MPa MINIMUM, 7mm COARSE AGGREGATE PLACED AND THOROUGHLY COMPACTED IN 1.0m MAXIMUM LIFTS.
- M7. 3.1mm DIAMETER GALVANIZED WALL TIES SHALL BE PROVIDED AT 600mm MAX HORIZONTALLY AND 400mm MAXIMUM VERTICALLY UNLESS OTHERWISE NOTED.
- M8. ALL MASONRY IS TO BE FIXED TO SUPPORTING STRUCTURAL FRAMING WITH MFA3/3 ANCHORS AT 600mm CENTERS VERTICALLY AND 600mm MAXIMUM CENTERS HORIZONTALLY UNLESS NOTED OTHERWISE.
- M9. ALL LINTELS TO EXTERNAL WALLS SHALL BE HOT DIP GALVANIZED
- M10. NEEDLING TO PROVIDE TEMPORARY SUPPORT TO OPENINGS AND SUPPORTED STRUCTURE SHALL BE DESIGNED BY A SUITABLY QUALIFIED REGISTERED BUILDING PRACTITIONER TO BE ADEQUATE FOR ALL LOAD CONDITIONS.
- M11. WHERE R.C. BEAMS OR STEEL BEAMS BEAR ON BRICKWORK, 230mm MIN BEARING IS REQUIRED.
- M12. WHERE SLAB BEARS ON MASONRY, USE TWO LAYERS OF MALTHOID OR EQUIVALENT, MINIMUM 120mm BEARING.
- M13. PROVIDE ARTICULATION (OR EXPANSION) JOINTS AS PER RELEVANT STANDARDS (IF ARTICULATION JOINT PLAN NOT SHOWN ON THESE DRAWINGS).

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- C2. CONCRETE STRENGTH & COVER TO ALL REINFORCEMENT (FINISHES NOT INCLUDED) U.N.O.

ELEMENT	STRENGTH (fc')	FORMED AND SHELTERED	FORMED AND EXPOSED	NO FORM WORK
SLABS	32 MPa	20 mm	30 mm	65 mm
BEAMS	32 MPa	25 mm	40 mm	65 mm
COLUMNS AND WALLS	40 MPa	40 mm	50 mm	75 mm
FOOTINGS	25 MPa		65 mm	75 mm

- C3. CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEER'S APPROVAL.
- C4. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C5. WHERE NOT SHOWN CONSTRUCTION JOINTS SHALL BE FORMED AND LOCATED TO THE APPROVAL OF THE ENGINEER.
- C6. REINFORCEMENT IN SECTIONS DRAMATIC ONLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C7. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY AS SHOWN. WELDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT APPROVAL.
- C8. REINFORCEMENT SYMBOLS:- L LOW DUCTILITY BARS TO AS4671; N NORMAL DUCTILITY BARS TO AS4671 THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETERS. ALL REINFORCEMENT USED SHALL BE 500 MPa AND DUCTILITY CLASS 'N'.
- C9. CAMBER TO BEAMS AND SLABS SHALL BE 2.5mm FOR EVERY 1m OF SPAN UNLESS OTHERWISE NOTED.
- C10. ALL CONCRETE SHALL BE GRADED AS PER TABLE ABOVE.
- C11. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION (TO AVOID DISPLACEMENT) ON APPROVED BAR CHAIRS AT 0.8m MAX CENTERS BOTH WAYS.
- C12. CONCRETE TO BE KEPT FREE OF SUPPORTING BRICKWORK BY TWO LAYERS OF A SUITABLE MEMBRANE (MALTHOID, ETC.), OR AS DIRECTED BY THE ENG. VERTICAL FACES OF CONCRETE TO BE KEPT FREE BY 10mm THICKNESS BITUMINOUS CANITE.
- C13. NON-LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE OR BRICKWORK BY 10mm THICK CANITE.
- C14. NO CONCRETE SHALL BE POURED UNTIL REINFORCEMENT HAS BEEN INSPECTED AND APPROVED.
- C15. ALL EMBEDMENTS SHALL BE HOT DIP GALVANIZED.
- C16. CONCRETE SHALL BE THOROUGHLY COMPACTED WITH HIGH FREQUENCY VIBRATORS TO ENSURE A DENSE, HOMOGENEOUS CONCRETE FREE OF AIR VOIDS AND POCKETS.
- C17. MINIMUM STRIPPING TIMES FOR CONCRETE ELEMENTS SHALL BE AS FOLLOWS:WALLS AND COLUMNS - 3 DAYS, PROVIDED THAT CURING IS MAINTAINED FOR A FURTHER 7 DAYS.BEAMS AND SLABS - 7 DAYS, PROVIDED THAT THE FULL SELF WEIGHT AND ANY SUPERIMPOSED LOADS ARE BACK-PROPPED AND CURING IS MAINTAINED FOR A FURTHER 7 DAYS.

TIMBER

- T1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, AS1684, AS1720, THE VICTORIAN TIMBER FRAMING MANUAL AND B.C.A.
- T2. ALL TIMBER STRESS GRADES NOMINATED SHALL BE IN ACCORDANCE WITH THE RELEVANT CODES AND MEANS THE STRUCTURAL QUALITY OF A TIMBER SECTION (REFER TO AS 1720).
- T3. ALL TIMBER SHALL BE DRY, IE: LESS THAN 15% MOISTURE CONTENT AT THE TIME OF CONSTRUCTION AND SHALL BE PROTECTED AS REQUIRED.
- T4. ALL LINTELS/BEAMS/GIRDER & HIP TRUSSES TO BE SUPPORTED ON ON DOUBLE STUDS, UNLESS OTHERWISE NOTED.
- T5. BEAMS/STUDS WITH MORE THAN 1 MEMBER TO BE NAIL/BOLT LAMINATED TOGETHER IN ACCORDANCE WITH AS 1684.
- T6. ALL EXPOSED/EXTERNAL TIMBER TO BE TREATED IN ACCORDANCE WITH RELEVANT REQUIREMENTS.
- T7. TOP PLATES ON MASONRY WALLS TO BE TIED DOWN WITH HOOP-IRON STRAPS AT 1200mm CENTERS SECURED INTO FOOTINGS OR EMBEDDED 75mm INTO A MASONRY BED JOINT AT LEAST 1200mm BELOW THE TOP OF THE WALL.
- T8. TIMBER FRAMING ABUTTING STEELWORK, MASONRY OR CONCRETE TO BE FIXED AT 900mm CRS WITH M12 DYNABOLTS.
- T9. HOOP IRON BRACING TO BE 30mm X 1.25mm GALVANIZED STRAP LEVERED TAUT, LOOPED AND TRIPLE NAILED AT ENDS AND SECURED TO EACH INTERMEDIATE MEMBER WITH 30mm X 2.8mm GALVANIZED CLOUTS.
- T10. INST. SOLID BLOCKING (45 WIDE X D-25 DEEP) NAILED TO JOIST/RAFTER (D=DEP. OF JOIST/RAFTER) AT 1800 MAX. CRS.
- T11. ALL TIMBER FRAMING & BRACING NOT SHOWN TO COMPLY WITH AS1684. TIMBER FRAMING MANUAL.
- T12. ALL INTERNAL WALLS TO BE NON-LOAD BEARING (TYPICAL UNLESS SHOWN OTHERWISE ON PLANS.

MOISTURE CONDITIONING NOTES

- MC1. IN AREA AFFECTED BY EXISTING STRUCTURES, SLAB/TRESS/RECENTLY REMOVED, STRUCTURES RESULTING IN ABNORMAL MOISTURE CONDITIONING OF EXISTING SUB GRADE:
 - EXISTING SUB GRADE TO BE EXCAVATED TO 400mm MAX DEPTH AND MOISTURE CONDITIONED TO THE SATISFACTION OF GEOTECHNICAL ENGINEER.
 - SHOULD FURTHER CONDITIONING BE REQUIRED THAN FURTHER SUB GRADE, EXCAVATION IS TO BE CONDUCTED 400mm MAX WITH INTERVALS UP TO A MAXIMUM DEPTH OF 2300mm.

FOUNDATION

- F1. FOUNDATION MATERIAL TO BE APPROVED BEFORE POURING CONCRETE FOR A SAFE BEARING CAPACITY OF:

MEMBER	ALLOWABLE BEARING
SLAB RIBS-RAFT	100 KPA
SLAB RIBS-WAFFLE	50 KPA
STRIP/PAD FOOTINGS	100 KPA
BORED PIERS	250 KPA END BEARING

- F2. ALL FOUNDATIONS ARE TO BE FREE OF WATER AND LOOSE OR DELETERIOUS MATERIAL PRIOR TO PLACING CONCRETE.
- F3. STRIP FOOTINGS ARE TO BE FOUNDED 150mm MINIMUM INTO FIRM UNDISTURBED NATURAL MATERIAL AND A MINIMUM OF 800mm BELOW FINISHED SURFACE LEVEL, UNLESS OTHERWISE NOTED.
- F4. BORED PIERS AND PILES ARE TO BE CONSTRUCTED TO WITHIN 75mm OF THE DESIGNATED PLAN LOCATION AND SHALL BE WITHIN 0.5º OF TRUE VERTICALITY. THE CONTRACTOR SHALL ALLOW FOR AND PROVIDE TEMPORARY LINERS AS NECESSARY TO PRESERVE THE INTEGRITY OF THE BORED HOLE PRIOR TO PLACING CONCRETE.
- F5. CONTRACTOR SHALL NOTIFY THE PROJECT BUILDING SURVEYOR TO INSPECT ALL EXCAVATIONS PRIOR TO POURING.

SUB-BASE PREPARATION FOR SLABS ON GROUND

- P1. CLEAR AREA UNDER SLAB OF ALL TOP SOIL CONTAINING HUMUS AND VEGETABLE MATTER 100mm MIN.
- P2. PROVIDE FILL UNDER SLAB WHERE REQUIRED TO PRODUCE FINISHED LEVELS AS SHOWN ON PLANS. ALL FILL SHALL BE IMPORTED AND CONFORM TO R.C.A. STANDARD SPECIFICATION FOR CLASS 3 CRUSHED ROCK (20mm NOM. SIZE). FILL TO BE COMPACTED IN 200mm MAX LAYERS TO 95% OF THE MODIFIED MAX DRY DENSITY TESTED IN ACCORDANCE WITH AS 1289.
- P3. THE UPPER LAYER OF THE CUT SURFACE SHALL BE WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT AND TO BE PROPERLY COMPACTED TO 95% M.M.D.D. (MODIFIED MAX DRY DENSITY)
- P4. A 50mm MIN. BASE COURSE OF PACKING SAND SHALL BE SPREAD OVER THE SUB-BASE AND TO BE THOROUGHLY ROLLED AND COMPACTED TO A SMOOTH LEVEL SURFACE. THE SAND SHALL BE MOISTENED PRIOR TO THE PLACEMENT OF A 0.2mm POLYTHENE MEMBRANE (3600mm MIN. WIDE SHEETS LAPPED 150mm AND JOINED WITH 75mm WIDE PRESSURE SENSITIVE TAPE. THE TAPE SHALL BE LAID UNDER ALL SLABS AND WALLS IN CONTACT WITH THE GROUND).
- P5. THE TOTAL FILL UNDER SLAB PANELS MUST NOT EXCEED 600mm FOR RAFT (AND MUST BE SAND FILL - NO GRAVEL AND MIN 7 COUNTS IN 300mm AS PER AS1289, METHOD 6.3.3) AND 300mm FOR WAFFLE, IE. THE SUM OF EXISTING FILL PLUS ANY NEW FILLING PLACED TOGETHER MUST NOT EXCEED THE DEPTH MENTIONED.

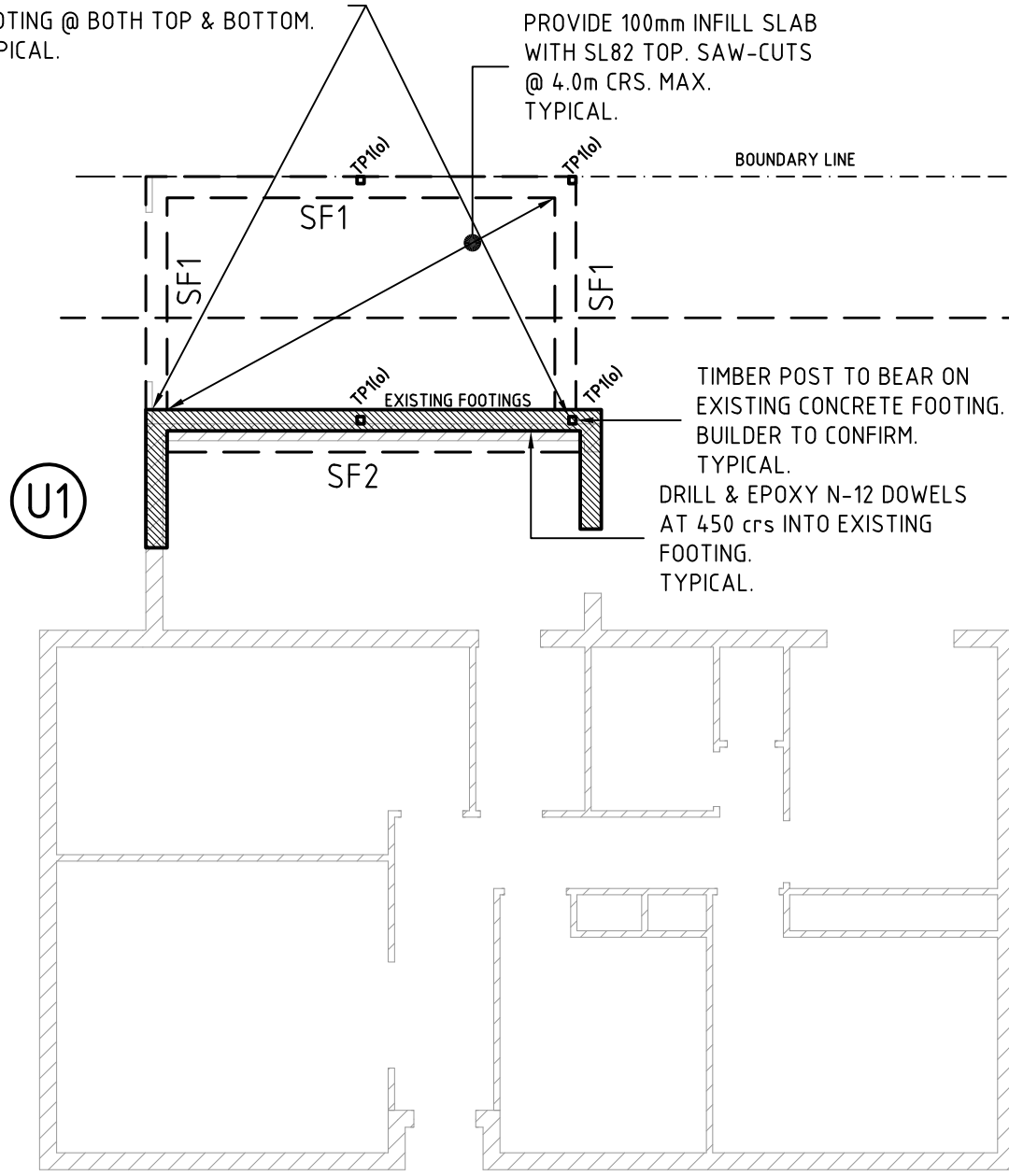
WAFFLE CONSTRUCTION NOTES

- W1. MINIMUM OF 100mm OF TOP SOIL IS TO BE SCRAPED AND ROOTS REMOVED FROM THE BUILDING AREA.
- W2. CUT SITE AS PER ARCHITECTURAL PLANS.
- W3. WHERE DEPTH OF EXISTING FILL REMAINING IS MORE THAN 150mm, SCRAPE FILL UNTIL MAX 150mm OF FILL REMAINS. COMPACT THIS FILL IN ACCORDANCE WITH AS2870 SECTION 6.4. THEN COMPACT ANY ADDITIONAL FILL IN ACCORDANCE WITH STEP W5.
- W4. IF DEPTH OF EXISTING FILL REMAINING IS LESS THAN 150mm THICK, COMPACT THIS FILL IN ACCORDANCE WITH STEP W5.
- W5. ANY FILL PLACED AS PART OF CUT/FILL/LEVEL OPERATIONS SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT, IN 150mm MAXIMUM LAYERS BY REPEATED ROLLING WITH AN EXCAVATOR IN ORTHOGONAL DIRECTIONS WITHIN THE PROPOSED SITE. UNDER EDGE BEAMS FILL MUST BE CONTROLLED FILL COMPACTED BY MECHANICAL ROLLER) AND NOT ROLLED FILL & SHOULD GO 1000mm PAST THE WAFFLE EDGE. TOTAL FILL DEPTH MUST NOT TO EXCEED 300mm. (REFER TO AS2870-2011).
- W6. IF TOTAL FILL EXCEEDS 300mm OR THE FILL IS NOT COMPACTED AS PER THE ABOVE SPECIFICATIONS, CONTACT THIS OFFICE FOR FURTHER ADVICE AS SLAB WOULD NEED RE-DESIGN (PIERS).
- W7. IF FURTHER SITE LEVELING IS REQUIRED PLACE A LAYER OF QUARRY PRODUCT OVER THE BUILDING AREA (WHICH SHALL EXTEND AT LEAST 1.0m OUTSIDE THE BUILDING LINE) AS PER AS1684.
- W8. SET-OUT SLAB.
- W9. LAY WASTE PIPES BELOW GROUND.
- W10. PREPARE WAFFLE RAFT IN ACCORDANCE WITH THE FOOTING PLAN AND DETAILS. PLACE WAFFLE PODS (START AS SHOWN ON PLAN).
- W11. PLACE REINFORCEMENT, POUR CONCRETE.
- W12. PROVIDE TYPICAL SLAB APRON, REFER DETAILS AND BCA.
- W13. EXTERNAL & LOADBEARING RIBS WIDER THAN 300mm SHALL BE REINFORCED WITH AN ADDITIONAL N12 BAR TOP & BOTTOM FOR EVERY 110mm IN ADDITIONAL WIDTH (TYP).

				<p>IF THESE DRAWINGS MARKED AS PRELIMINARY THEY ARE NOT TO BE USED FOR TENDERING OR CONSTRUCTION PURPOSES.</p> <p>2 Yarra Street, South Yarra, VIC 3141. A.C.N. 151 757 603</p> <p>Ph: (03) 8361 7172</p> <p>Info@arxconsulting.com.au</p> <p><small>© This drawing is copyright to Arx Consulting Engineers, no part of this drawing shall be used for any other purpose without the prior written consent of Arx Consulting Engineers.</small></p>	Client:	Approved:	Drawn:
					PROPERTY DESIGNS	P.P	T.T
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				NO.6 ELIZABETH STREET MELTON SOUTH	189087	1 of 8	
Rev.	Remark/Comment	Date:	Des:			Revision	A

DRILL & EPOXY 450mm LONG 2-N16 DOWELS MIN 150mm INTO EXISTING FOOTING @ BOTH TOP & BOTTOM. TYPICAL.

PROVIDE 100mm INFILL SLAB WITH SL82 TOP. SAW-CUTS @ 4.0m CRS. MAX. TYPICAL.



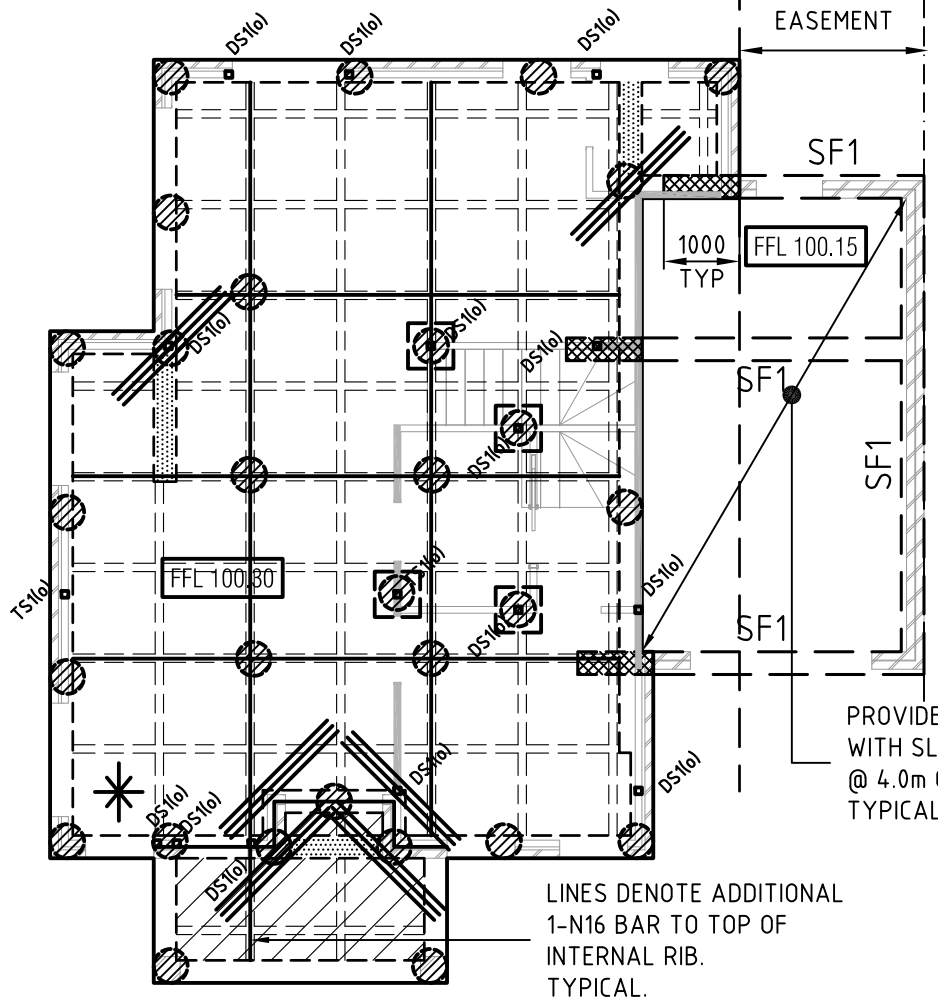
U1

U2

150Ø SEWER PIPE
1.7m MAX DEPTH.
OFFSET 1.3m.
T.B.C. ON SITE.

WAFFLE SLAB SCHEDULE		
SLAB SIZES		
OVERALL SLAB DEPTH	410 mm	U.N.O.
WAFFLE PODS HEIGHT	300 mm	U.N.O.
SLAB THICKNESS	110 mm	U.N.O.
INTERNAL RIB WIDTH	110 mm	U.N.O.
EXTERNAL RIB WIDTH	300 mm	U.N.O.
L'DBEARING RIB WIDTH	300 mm	U.N.O.
STEM WIDTH	150 mm	U.N.O.
SLAB REINFORCEMENT		
Inspections to be booked by 3PM 24 hrs prior. Please email inspections@jnat.com.au		
TOP		
SLAB FABRIC	SL92	U.N.O.
EXTERNAL RIB	3-L12TM	U.N.O.
L'DBEARING RIB	3-L12TM	U.N.O.
BOTTOM		
INTERNAL RIB	1-N16	U.N.O.
EXTERNAL RIB	3-N16 OR 2x3-L12TM	U.N.O.
L'DBEARING RIB	3-N16 OR 2x3-L12TM	U.N.O.
PROVIDE 0.2mm POLYTHYLENE MEMBRANE (LAPPED 200 MIN. AND TAPED AT JOINTS) ON 50mm COMPACTED QUARRY PRODUCT TYPICAL		
CONCRETE STRENGTH = 25 MPa AT 28 DAYS. SLUMP = 80mm		

SF1: 800 DEEP x 300 WIDE STRIP FOOTING, 3-L12TM TOP & BOTTOM.
 SF2: 800 DEEP x 300 WIDE STRIP FOOTING, 3-L12TM TOP & BOTTOM. IF EXISTING FOOTING FOUND TO BE IN GOOD CONDITION AND FOOTING PERFORMANCE ACCEPTABLE BY THE CLIENT NEW FOOTINGS CAN MATCH EXISTING IN DEPTH (BE REDUCED).
 PROVIDE BLINDING CONCRETE AS REQUIRED TO FOUND FOOTINGS 100mm INTO SILTY CLAY OR TO ACHIEVE MINIMUM FOUNDING DEPTH AS SPECIFIED IN THE SOIL REPORT, WHICH EVER IS DEEPER.
 BP1: Ø450 BORED PIERS. MIN 600mm INTO SILTY CLAY.

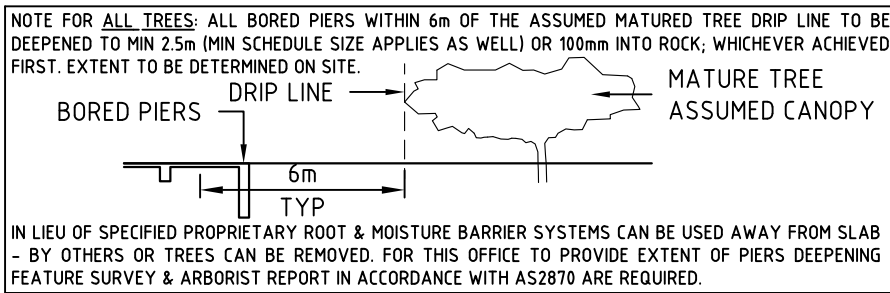


LINES DENOTE ADDITIONAL 1-N16 BAR TO TOP OF INTERNAL RIB. TYPICAL.

LEGEND:

- DENOTES WAFFLE POD SETDOWN. REFER TO ARCHITECTS SPECIFICATIONS
- DENOTES STARTING POINT OF WAFFLE BOXES.
- DENOTES 2000 LONG 3-N12 CRACK CONTROL BARS
- DENOTES EXTERNAL/L'DBEARING RIB EXTENSION
- UNLESS MARKED OTHERWISE SQUARE DENOTES 600x600 CUT OUT IN WAFFLE ABOVE BORED PIERS-INFILL WITH CONCRETE TOGETHER WITH SLAB CAST
- DENOTES BORED PIERS. UNLESS MARKED OTHERWISE ALL PIERS BP1.

GROUND FLOOR PLAN
SCALE = 1:100



NOTE: IF THIS FOOTING IS TO CONSTRUCTED 1.0m OR LESS AWAY FROM EXISTING FOOTING/ BUILDING THEN THIS OFFICE IS TO BE CONTACTED FOR FURTHER ADVICE. U.N.O.

NOTE: STEP DOWNS SHOWN HERE MUST BE CONFIRMED AGAINST ARCH. DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCY MUST BE NOTED TO THIS OFFICE.

NOTE: TREES MAY AFFECT THE FOUNDATIONS OF THE PROPOSED DEVELOPMENT. TREE ROOTS & MOISTURE CHANGE ARE TO BE ISOLATED FROM THE HOUSE BY MEANS OF PROPRIETARY ROOT/MOISTURE BARRIER U.N.O. OR THE TREES ARE TO BE REMOVED & GROUND RE-MOISTURISED & COMPACTED BEFORE ANY BUILDING WORKS. SEE NOTES ON SHEET 1.

REFER TO RECOMMENDATIONS & SITE INVESTIGATIONS DONE BY:
 COMPANY: GeoHUB
 REF. No.: 187134
 DATED: 26/07/2018
 CLASS: 'P'
 THIS PLAN SHOULD BE READ IN CONJUNCTION WITH THE ABOVE REPORT

EASEMENT DETAILS REQUIRED
 THE INFORMATION REGARDING THE DEPTH & OFFSET OF ANY STORMWATER PIPES WAS NOT SUPPLIED TO THIS OFFICE AT THE TIME OF THIS FOOTING DESIGN. ALL PROPERTY ASSETS ARE TO BE CONFIRMED PRIOR TO ANY CONSTRUCTION WORKS. REFER TO ANGLE OF REPOSE DETAILS.

Rev.	Remark/Comment	Date:	Des:
A	CONSTRUCTION ISSUE	17/09/2018	T.T

IF THESE DRAWINGS MARKED AS PRELIMINARY THEY ARE NOT TO BE USED FOR TENDERING OR CONSTRUCTION PURPOSES.



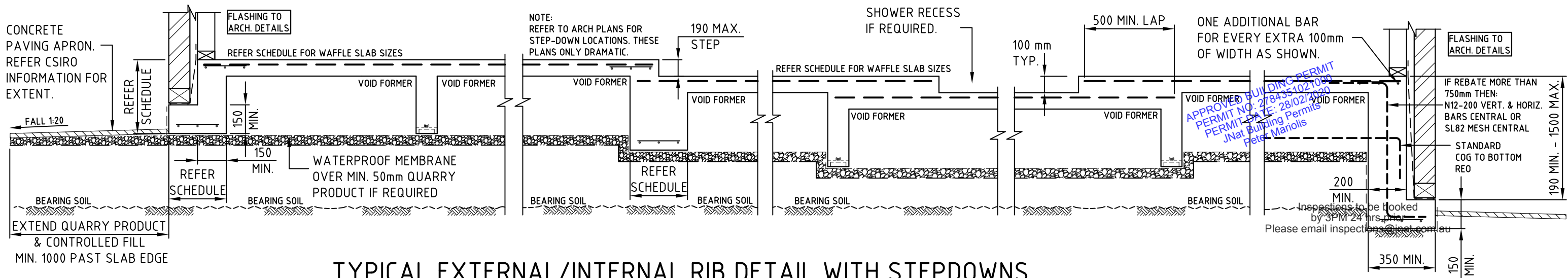
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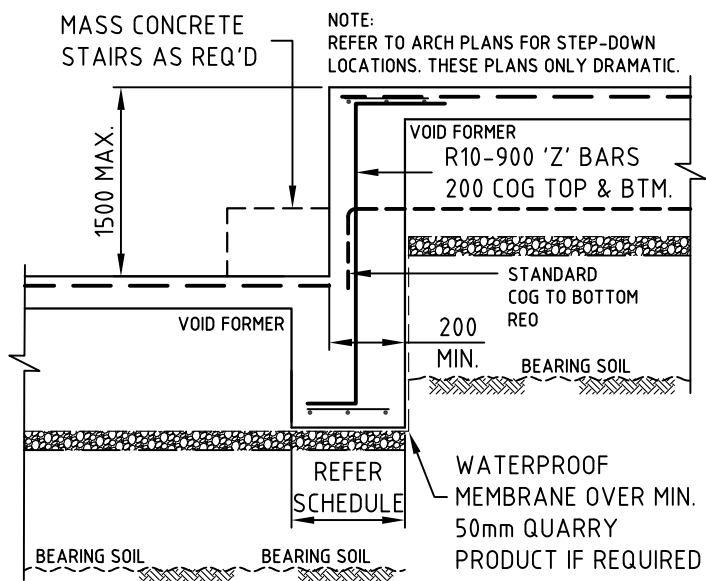
Client: PROPERTY DESIGNS
 Address: NO.6 ELIZABETH STREET MELTON SOUTH

Approved: P.P	Drawn: T.T
Drawing size: A3	Scale: AS NOTED
Job Number: 189087	Sheet No: 2 of 8
	Revision: A



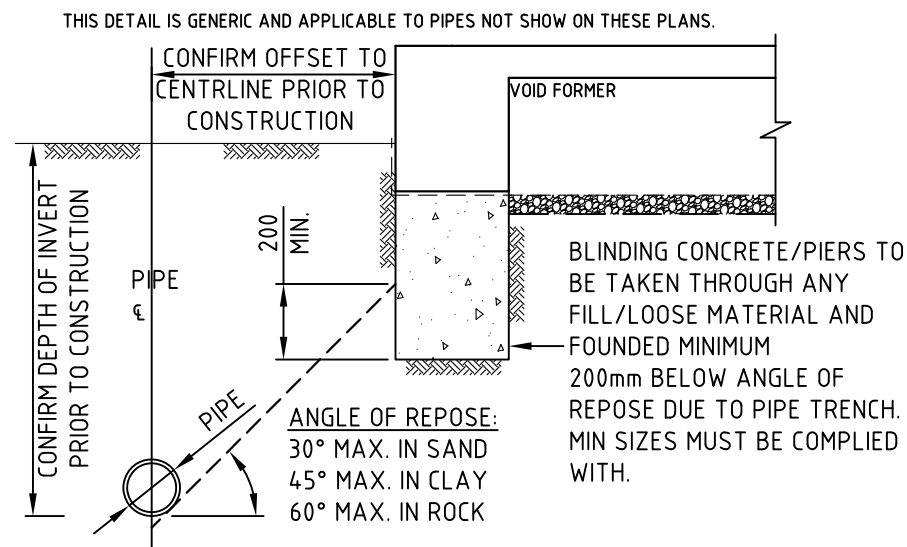
TYPICAL EXTERNAL/INTERNAL RIB DETAIL WITH STEP-DOWNS

SCALE = NTS



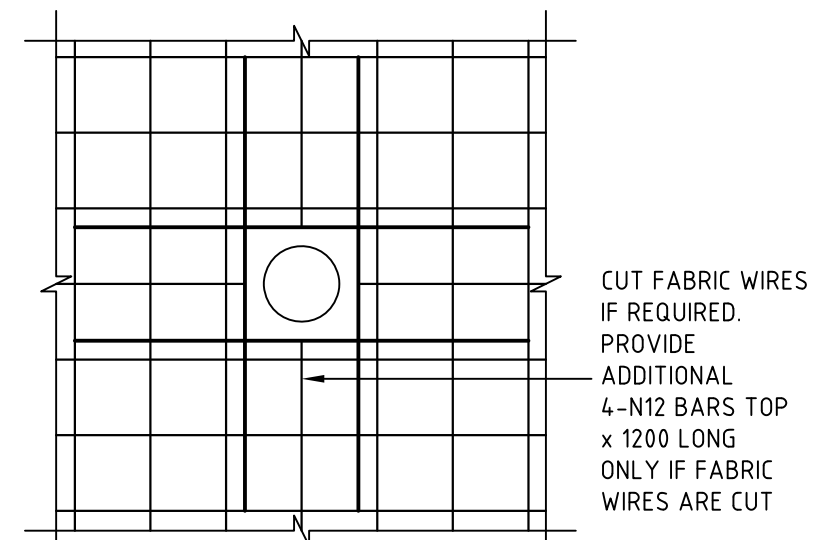
TYPICAL INTERNAL RIB DEEP STEP DETAIL

SCALE = NTS



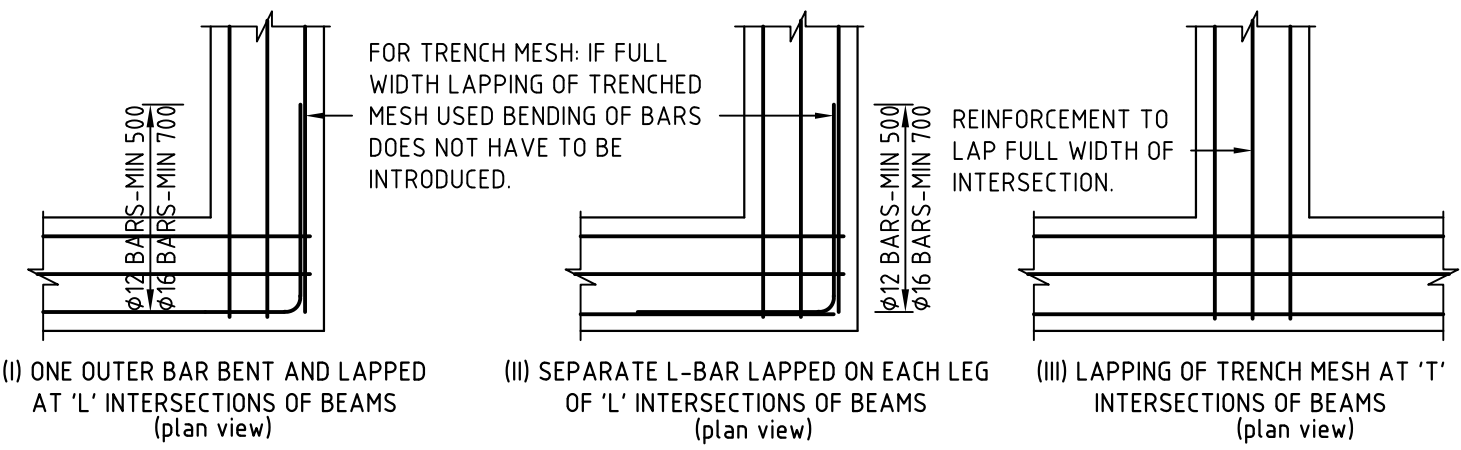
TYPICAL TEMPORARY EXCAVATION ANGLE OF REPOSE DETAIL-IF NEEDED

SCALE = NTS



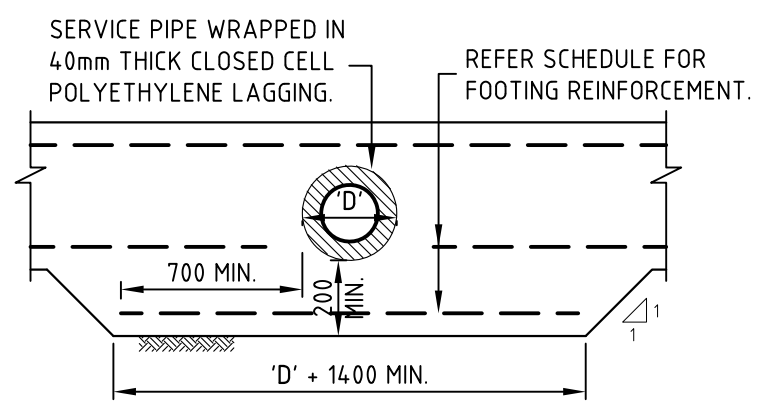
TYPICAL SLAB MESH PENETRATION DETAIL

SCALE = NTS



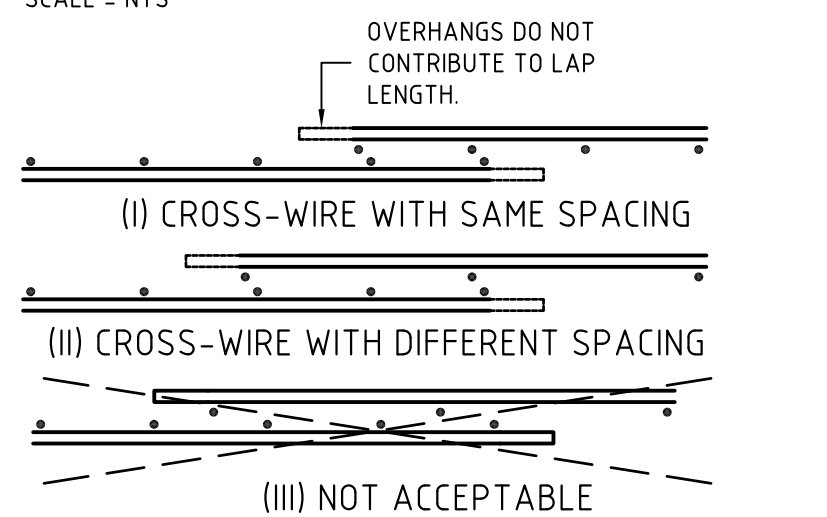
LAPPING OF REINFORCEMENT AT INTERSECTIONS

SCALE = NTS



TYPICAL PENETRATION THROUGH FOOTING DETAIL

SCALE = NTS



LAPS IN TOP MESH REINFORCEMENT

SCALE = NTS

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A	CONSTRUCTION ISSUE	17/09/2018	T.T

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Client: PROPERTY DESIGNS
Address: NO.6 ELIZABETH STREET MELTON SOUTH

Approved:	P.P	Drawn:	T.T
Drawing size:	A3	Scale:	AS NOTED
Job Number	189087	Sheet No:	3 of 8
		Revision	A

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SITE DRAINAGE

INADEQUATE SURFACE DRAINAGE SYSTEM IS A COMMON PROBLEM IN FOUNDATION MOVEMENT IN MODERATE/REACTIVE CLAYS. THE EFFECTIVE DRAINAGE SYSTEM THAT DOES NOT AFFECT FOUNDATION MOISTURE EQUILIBRIUM IS OF PARAMOUNT IMPORTANCE. BUILDER IS TO COMPLY WITH THESE REQUIREMENTS (OR NOTIFY THE CLIENT/OWNER IN CASE WORKS DO NOT FORM PART OF THE CONTRACT). THESE DRAINAGE REQUIREMENTS (NOT EXCLUDING ANY OTHER REQUIREMENTS SHOWN ON THESE PLANS) ARE PART OF THIS FOOTING DESIGN:

DRAINAGE REQUIREMENTS:

1. SURFACE DRAINAGE OF THE SITE SHOULD BE CONTROLLED FROM THE START OF THE SITE PREPARATION AND CONSTRUCTION. DRAINAGE SYSTEM SHALL BE COMPLETED BY THE FINISH OF THE BUILDING CONSTRUCTION.
2. THE BASE OF TRENCHES SHALL BE SLOPED AWAY FROM THE BUILDING. TRENCHES SHALL BE BACKFILLED WITH CLAY IN THE TOP 300mm WITHIN 1.5m OF THE BUILDING. THE CLAY USED FOR BACKFILLING SHALL BE COMPACTED. WHERE PIPES PASS UNDER THE FOOTING SYSTEM THE TRENCH SHALL BE BACKFILLED FULL DEPTH WITH CLAY OR CONCRETE TO RESTRICT THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM.
3. WHERE PIPES PASS UNDER THE FOOTING SYSTEM THE TRENCH SHALL BE BACKFILLED FULL DEPTH WITH CLAY OR CONCRETE TO RESTRICT THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM. ALTERNATIVELY, A PLASTIC MEMBRANE ACROSS THE CROSS SECTION OF THE TRENCH, TAPED TO THE PIPE AND KEYED INTO THE SIDES AND BASE OF THE TRENCH MAY BE USED.
4. SUBSURFACE DRAINS TO REMOVE GROUNDWATER SHALL NOT BE USED WITHIN 1.0m OF THE BUILDING U.N.O.

PLUMBING REQUIREMENTS:

1. PENETRATIONS THROUGH THE FOOTINGS SHOULD BE AVOIDED WHERE POSSIBLE.; OTHERWISE SHOULD BE CONSTRUCTED IN ACCORDANCE WITH DETAIL SON THESE PLANS.
2. CLOSED CELL POLYETHYLENE LAGGING SHALL BE USED AROUND ALL STORMWATER AND SANITARY PLUMBING DRAIN PIPE PENETRATIONS THROUGH FOOTINGS. THE LAGGING SHOULD BE MIN 40mm THICK FOR CLASS H2 AND E SITES AND CAN BE REDUCED TO 20mm FOR CLASS H1 SITES (SLEEVES ALLOWING EQUIVALENT MOVING CAN SE BE USED IN LIEU OF LAGGING).
3. DRAINS ATTACHED TO OR EMERGING FROM UNDERNEATH THE BUILDING SHALL INCORPORATE FLEXIBLE JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING WITHIN 1.0m AWAY OF THE PERIMETER TO ACCOMMODATE DIFFERENTIAL SOIL MOVEMENT IN ANY DIRECTION EQUAL TO THE y_s VALUE ON THE SOIL REPORT. THE FITTINGS OR DEVICES PROVIDED TO ALLOW FOR THE MOVEMENT SHALL BE SET AT THE MID POSITION OF THEIR RANGE OF POSSIBLE MOVEMENT AT THE TIME OF THEIR INSTALLATION, SO AS TO ALLOW FOR BOTH UPWARDS AND DOWNWARDS MOVEMENTS. THE REQUIREMENTS APPLIES TO ALL STORMWATER AND SANITARY PLUMBING DRAINS AND DISCHARGE PIPES.
4. ON SITE WASTEWATER TREATMENT UNITS AND ASSOCIATED LAND APPLICATION AREAS SHALL BE LOCATED TO MINIMIZE SOIL MOISTURE INCREASE WITHIN THE FOUNDATION.
5. DRAINAGE UNDER SLAB SHOULD BE AVOIDED WHERE PRACTICABLE.
6. WATER SERVICE PIPES SHALL BE SHALL COMPLY WITH THE RELEVANT REQUIREMENTS.
7. COLD, HEATED OR HOT WATER PIPES SHALL NOT BE INSTALLED UNDER THE SLAB UNLESS PIPES INSTALLED WITHIN A CONDUIT SO IN CASE OF PIPE LEAKAGE IT WILL BE NOTICED ABOVE THE SLAB RATHER THAN LEAK UNNOTICED UNDER THE SLAB.
8. STORMWATER PIPES LAID UNDER THE FOOTINGS SHOULD HAVE MINIMUM CLEARANCE OF 25mm AND SHOULD BE GUARDED FROM MECHANICAL DAMAGE.

LANDSCAPING REQUIREMENTS:

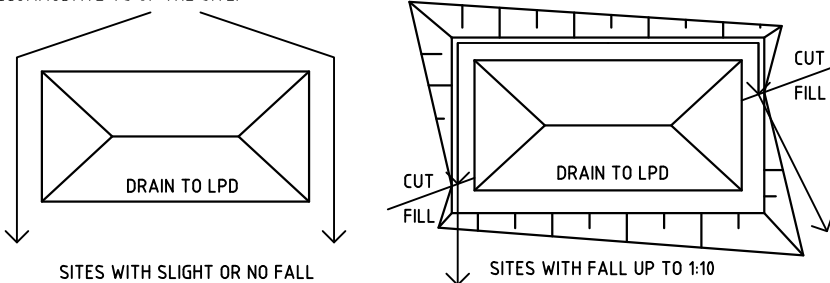
1. THE GARDEN DEVELOPER SHALL NOT INTERFERE WITH THE DRAINAGE REQUIREMENTS, SUBFLOOR VENTILATION AND WEEPHOLE DRAINAGE SYSTEMS. GARDEN BEDS ADJACENT TO THE BUILDING SHALL BE AVOIDED. CARE SHOULD BE TAKEN TO AVOID OVER-WATERING OF GARDENS CLOSE TO THE FOOTING SYSTEMS.
2. PLANTING OF TREES SHOULD BE AVOIDED NEAR THE FOUNDATION OF THE BUILDING OR NEIGHBORING BUILDING AS THEY CAN CAUSE DAMAGE DUE TO DRYING EFFECTS. TO REDUCE (NOT ELIMINATE) THE POSSIBILITY OF DAMAGE TREES SHOULD RE RESTRICTED TO A DISTANCE FROM THE HOUSE:
 - ONE AND A HALF MATURE HEIGHT FOR CLASS E SITES
 - ONE MATURE HEIGHT FOR CLASS H1 AND H2 SITES
 - THREE QUARTERS OF MATURE HEIGHT FOR CLASS M SITES.
 WHERE ROWS OR GROUP OF TREES ARE INVOLVED THE DISTANCE FROM THE BUILDING SHOULD BE INCREASED. REMOVAL OF TREES CAUSES SIMILAR PROBLEMS.

MAINTENANCE:

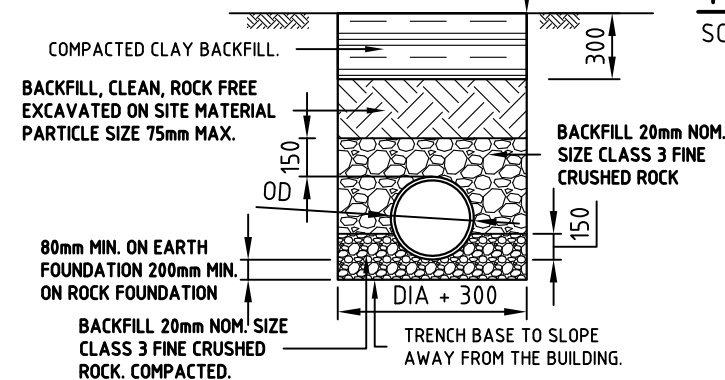
1. PRIMARY OBJECTIVE OF THE MAINTENANCE IS TO MINIMIZE SOIL MOISTURE CHANGES CLOSE TO/UNDER THE FOUNDATION.
2. LEAKS IN PLUMBING (INCLUDING STORMWATER AND SEWERAGE DRAINAGE) AND TAPS SHALL BE REPAIRED PROMPTLY. THE OWNER IS RESPONSIBLE FOR ROUTING INSPECTIONS OF THE DRAINAGE SYSTEM. SILT TRAPS SHOULD BE INSPECTED MINIMUM ANNUALLY AND BUILD UP IS TO BE CLEARED. HEAVY BUILD UP MAY REQUIRE FLUSHING OF THE AGGI DRAINS.

SITE DRAINAGE

SITES SHOULD BE DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR THE HOUSE. THE GROUND IMMEDIATELY ADJACENT TO THE HOUSE SHOULD BE GRADED TO FALL 50mm OVER THE FIRST METRE. WHERE THIS IS IMPRACTICABLE (IE: ON SEVERAL SLOPING SITES) USE A.G. DRAINS ADJACENT TO FOOTINGS WHERE THE GROUND FALLS TOWARDS THE BUILDING.(REFER TO DETAILS BELOW). IN HIGHLY/EXTREMELY REACTIVE CLAYS DRAINS PROTRUDING THE SLAB TO HAVE FLEX. JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING 1.0m OF THE BUILDING PERIMETER. JOINTS TO BE ABLE TO ACCOMMODATE y_s OF THE SITE.



IF PIPE PASSING UNDER FOOTING TRENCH TO BE BACKFILLED WITH CLAY FULL DEPTH (RIB WIDTH) OR PLASTIC MEMBRANE TO BE INSTALLED (TAPED/KEYED TO PIPE/TRENCH EDGES)



TRENCH CLOSER THAN 1.5m TO BUILDING BACKFILL DETAIL

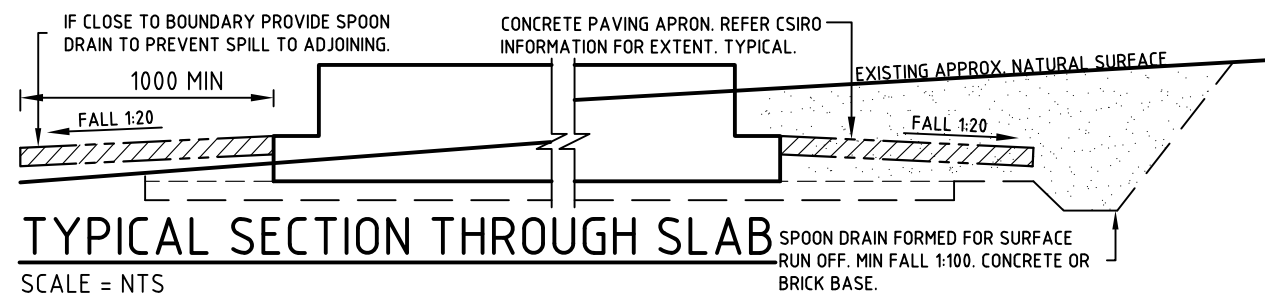
SCALE = NTS

MINIMUM SEWER ARTICULATION REQ'S			
SITE CLASS	y_s (mm)	SWIVEL	EXPANDER
M	≤ 40	0	0
H1	$40 < y_s \leq 60$	1	1
H2	$60 < y_s \leq 75$	2	1
E/P	> 75	2	1



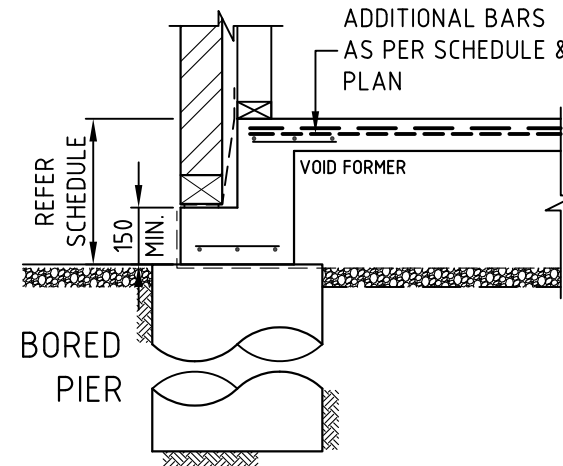
TYPICAL PIPE ARTICULATION DETAIL

SCALE = NTS



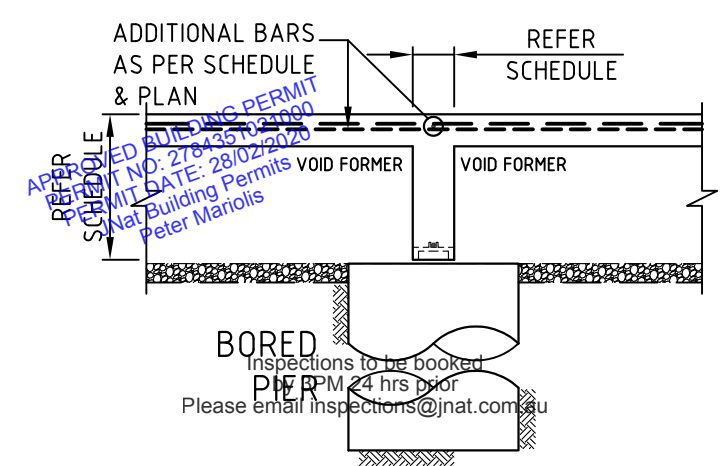
TYPICAL SECTION THROUGH SLAB

SCALE = NTS



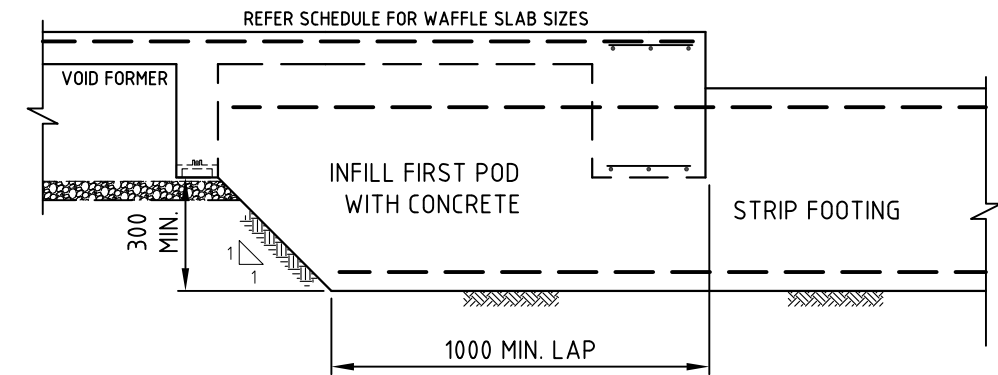
TYPICAL EXTERNAL RIB ON PIER

SCALE = NTS



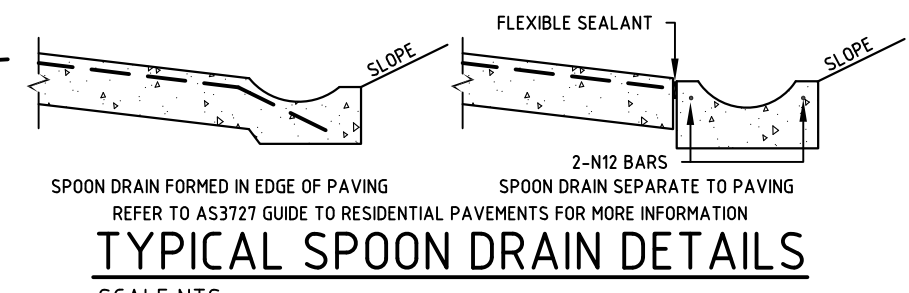
TYPICAL INTERNAL RIB ON PIER

SCALE = NTS



TYPICAL STRIP FOOTING TO SLAB EDGE BEAM CONNECTION DETAIL

SCALE = NTS



SPOON DRAIN FORMED IN EDGE OF PAVING REFER TO AS3727 GUIDE TO RESIDENTIAL PAVEMENTS FOR MORE INFORMATION

TYPICAL SPOON DRAIN DETAILS

SCALE NTS

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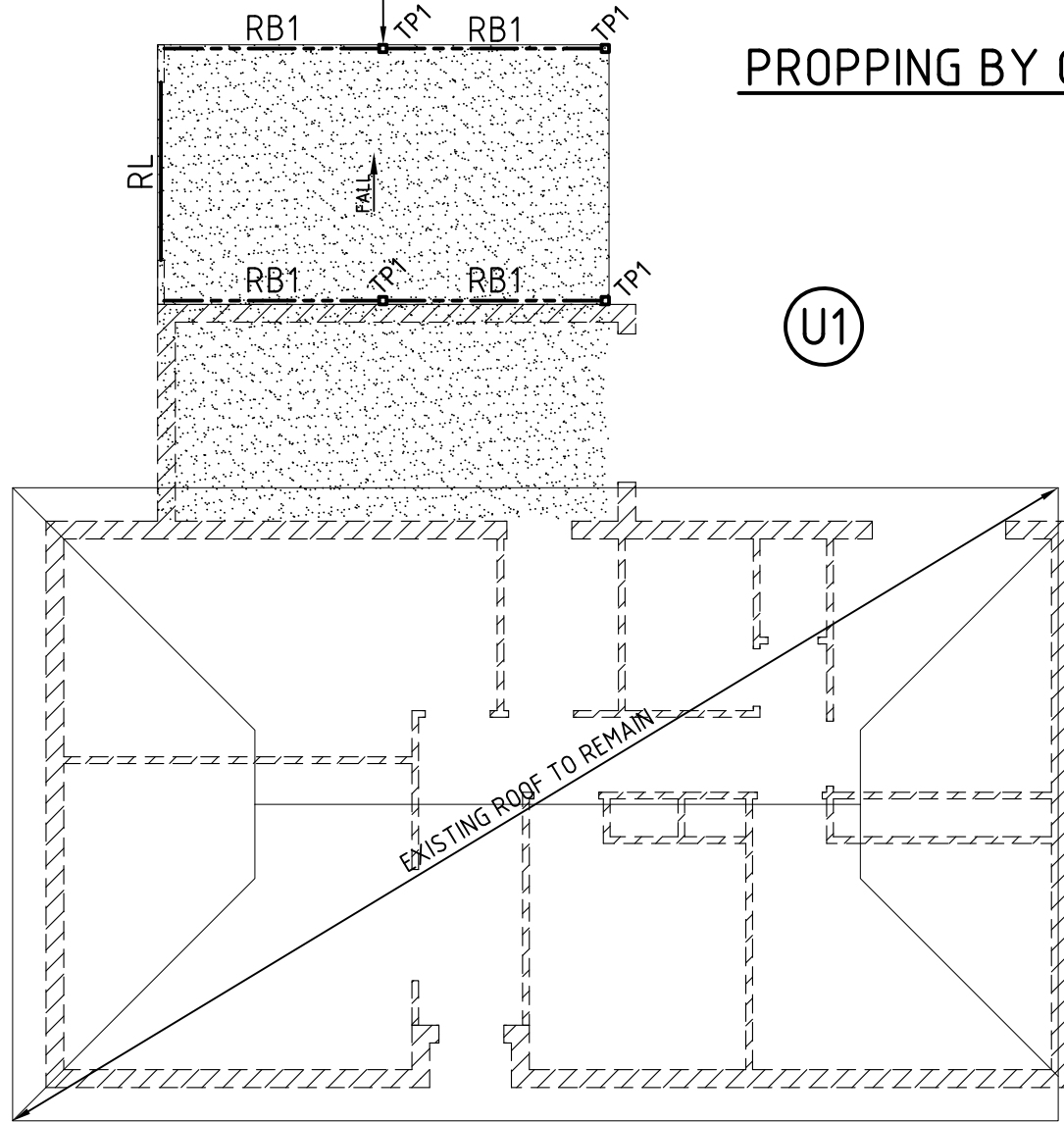
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Approved:	P.P	Drawn:	T.T
Drawing size:	A3	Scale:	AS NOTED
Job Number	189087	Sheet No:	4 of 8
		Revision	A

PROVIDE 90x90 F7 KNEE BRACE TO TOP OF POSTS (700mm LONG). TYPICAL.

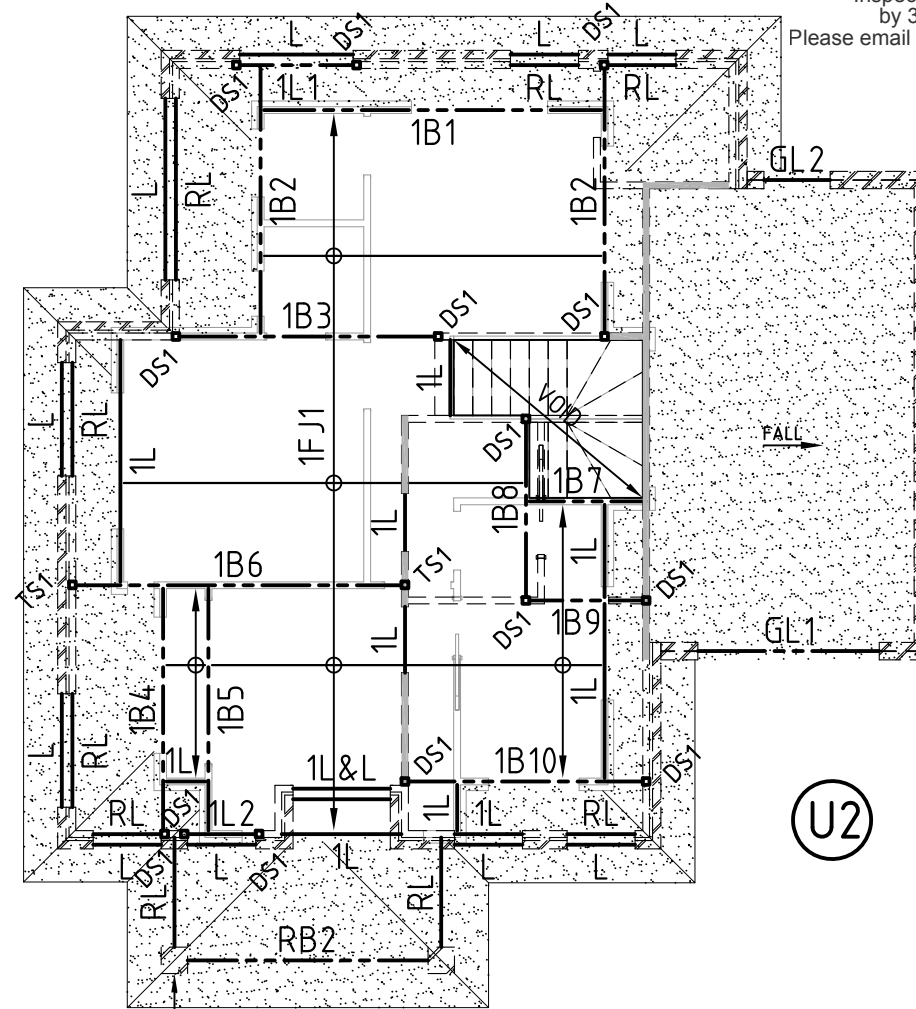
PROPPING BY OTHERS

APPROVED BUILDING PERMIT
 PERMIT NO: 2784351021000
 PERMIT DATE: 28/02/2020
 JNat Building Permits
 Peter Mariolis



U1

Inspections to be booked by 3PM 24 hrs prior
 Please email inspections@jnat.com.au



U2

HOOP AND NAIL METAL STRAP FROM B'WORK. TYPICAL.

NOTES:
 1) PROPPINGS BY OTHERS; PROPS MUST SIT FIRMLY ON SOLID FLOOR AND BUILDER IS TO ENSURE THE ROOF STRUCTURE IS STABLE THROUGHOUT THE CONSTRUCTION UNTIL COMPLETION.

LEGEND

- WALLS OVER
- WALLS UNDER
- INTERNAL LOAD BEARING WALLS UNDER
- LOWER ROOF BY OTHERS OR RAFTERS AS PER SCHEDULE

FIRST FLOOR FRAMING PLAN

SCALE = 1:100

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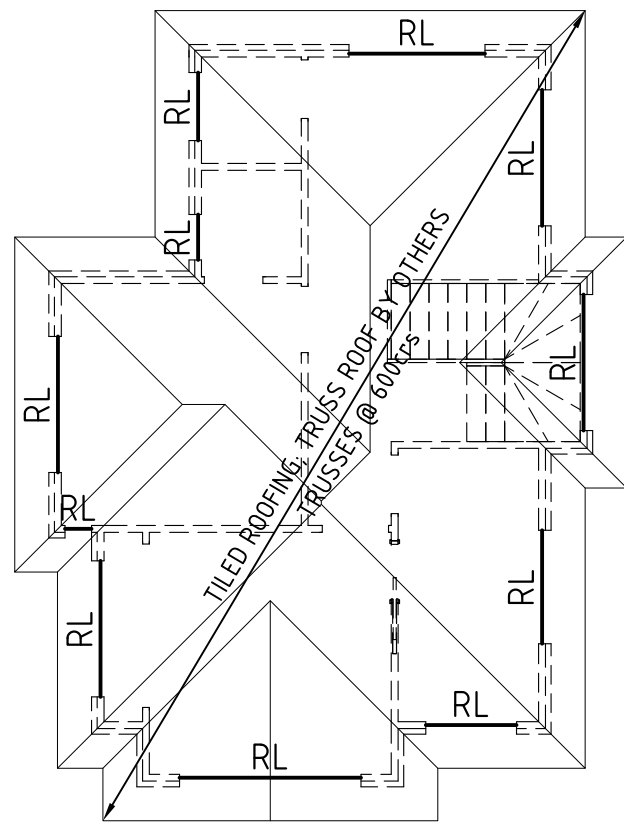
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Job Number	189087	Sheet No:	5 of 8
Revision	A		

U2



ROOF FRAMING PLAN

SCALE = 1:100

LEGEND

----- WALLS UNDER

WALL FRAMING MEMBERS (U.N.O)

DUE TO SITE SPECIFIC LOADING TIMBER SIZES FROM AS1684 CAN BE USED IN LIEU OF ONES SPECIFIED IN THIS TABLE

UPPER/SINGLE STOREY STUD SIZE	MAX HEIGHT (mm)	MAX SHEET ROOF LOAD WIDTH (mm)		MAX TILED ROOF LOAD WIDTH (mm)	
		@ 450crs	@ 600crs	@ 450crs	@ 600crs
90x35 MGP10	3000	7500	5400	6900	4800
90x45 MGP10	3000	7500	7500	7500	7500
	3600	4000	-	3500	-
90x45 F17 KD HW	3600	7500	7500	7500	7500
LOWER STOREY STUD SIZE	MAX HEIGHT (mm)	MAX ROOF LOAD (mm)	MAX FLOOR LOAD (mm)		
90x35 MGP10 @ 450crs	3000	6000	3500		
90x45 MGP10 @ 450crs	3000	7500	4800		
90x45 F17 KD HW @ 450crs	3300	7500	3000		

TOP PLATE: 45x90 MGP10 UP TO 3.8m OF METAL ROOF.
 2-35x90 MGP10 UP TO 7.5m OF METAL ROOF.
 2-45x90 MGP10 UP TO 7.5m OF TILED ROOF.
 BOTTOM PLATE: 45x90 MGP10 UP TO 4.8m OF ROOF.
 2-45x90 MGP10 UP TO 7.5m OF ROOF.
 IF BOTTOM PLATE SUPPORTED BY CONCRETE SLAB/SOLID BLOCKING 35x90 MGP10 CAN BE USED.
 WALLS NOTCHED MAX 20mm FOR BRACING.
 STUD NOGGINS AT NO MORE THAN 1350crs.
 TOP & BOTTOM PL NOT NOTCHED.
 JAMB STUDS TO AS1684.
 PROVIDE DOUBLE STUD AT EACH BEAM/LINTEL/GIRDER TRUSS LOCATION.

NOTE: EQUIVALENT TIMBER GRADE CAN BE USED TO REPLACE TIMBER GRADES SPECIFIED

BUILDING BRACING TO BUILDER'S SPECIFICATIONS TO BE INSTALLED IN ACCORDANCE WITH AS1684.

BUILDER TO SUPPLY MANUFACTURERS TRUSS LAYOUT TO BUILDING SURVEYOR FOR APPROVAL PRIOR TO CONSTRUCTION. TRUSS DESIGN MUST BE IN ACCORDANCE WITH AS1720 AND AS1684. TRUSS FABRICATOR IS RESPONSIBLE FOR PROVIDING ADEQUATE ROOF BRACING TO ENSURE STABILITY OF THE STRUCTURE. ROOF TRUSSES TO BEAR ON ALL EXTERNAL WALLS AND EXTERNAL WALLS ONLY. IF INTERNAL WALLS NEED TO BE USED THIS OFFICE MUST BE CONTACTED FOR FURTHER ADVICE.

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 Address: NO.6 ELIZABETH STREET MELTON SOUTH

Approved: P.P
 Drawing size: A3
 Job Number: 189087
 Drawn: T.T
 Scale: AS NOTED
 Sheet No: 6 of 8
 Revision: A

Rev.	Remark/Comment	Date:	Des:
A	CONSTRUCTION ISSUE	17/09/2018	T.T

APPROVED BUILDING PERMIT
 PERMIT NO: 2784351021000
 PERMIT DATE: 28/02/2020
 JNat Building Permits
 Peter Mariolis

MEMBER SCHEDULE			
MARK	SECTION	COMMENTS	
1B1	2 /360x42 LVL 15	4.6 m MAX SPAN	
1B2	2 /300x75 LVL 15	3.5 m MAX SPAN, CHAMFERED AT THE END.	
1B3	2 /300x42 LVL 15	3.4 m MAX SPAN	
1B4	2 /290x45 F17 KD HW	3.3 m MAX SPAN, CHAMFERED AT THE END.	
1B5	2 /290x45 F17 KD HW	3.3 m MAX SPAN	
1B6	3 /300x58 LVL 15	4.4 m MAX SPAN, CHAMFERED AT THE END.	
1B7	2 /190x45 F17 KD HW	1.6 m MAX SPAN	
1B8	2 /240x45 F17 KD HW	2.4 m MAX SPAN	
1B9	2 /240x45 F17 KD HW	1.5 m MAX SPAN	
1B10	2 /300x58 LVL 15	3.2 m MAX SPAN, CHAMFERED AT THE END.	
1L1	2 /240x45 F17 KD HW	1.6 m MAX SPAN	
1L2	2 /140x45 F17 KD HW	0.9 m MAX SPAN	
GL1	150x8 VERTICAL + 200x10 HORIZONTAL PLATE.	⊥	2.4 m MAX SPAN, 6 CFW 300 FROM ENDS, THEN HIT & MISS 150. 200mm END BEARING
GL2	100x8 VERTICAL + 200x10 HORIZONTAL PLATE.	⊥	0.9 m MAX SPAN, 6 CFW 300 FROM ENDS, THEN HIT & MISS 150. 150mm END BEARING
RB1	240x45 MGP10	3.0 m MAX SPAN	
RB2	290x45 MGP10	3.2 m MAX SPAN	
1FJ1	300 DEEP POSI JOIST @ 450crs	TO MANUFACTURER'S SPECIFICATION	
DS1	2 /90x45 F17 KD HW	3 m MAX HEIGHT	
TS1	3 /90x45 F17 KD HW	3 m MAX HEIGHT	
TP1	100x100 F7 CYPRESS	3 m MAX HEIGHT	
U.N.O: - ALL LINTELS/BEAMS HARD AGAINST THE TOP PLATE. - PROVIDE DOUBLE STUD AS SUPPORTS TO ALL BEAMS/LINTELS/GIRDER TRUSSES.			

1st FLOOR TIMBER BEAM SCHEDULE (1L)	
SPAN (mm)	SECTION
0-900	140x45 F7 KD PINE
901-1200	190x35 F7 KD PINE
1201-1800	220x35 F17 KD HW
1801-2400	2-240x35 F17 KD HW
2401-3200	2-290x45 F17 KD HW

SUPPORTING TILE ROOF-LOAD WIDTH OF 5.0m MAX AND FIRST FLOOR LOAD WITH OF 2.5m MAX

ANGLE LINTEL SCHEDULE (L)		
SPAN (mm)	SECTION	END BEARING
0 - 1200	90 x 90 x 6 EA	100
1200 - 1500	90 x 90 x 8 EA	100
1500 - 1800	100 x 100 x 8 EA	150
1800 - 2400	150 x 90 x 8 UA	150
2400 - 3600	150 x 90 x 10 UA	150


1. PROVIDE LINTEL TO EACH MASONRY LEAF
2. SET ANGLES WITH LONG LEG VERTICAL.
3. ALL EXTERNAL LINTELS TO BE HOT DIP GALVANISED

1st FLOOR TIMBER BEAM SCHEDULE (1L)	
SPAN (mm)	SECTION
0-900	140x45 F7 KD PINE
901-1200	190x35 F7 KD PINE
1201-1800	220x35 F17 KD HW
1801-2400	2-240x35 F17 KD HW
2401-3200	2-290x45 F17 KD HW

SUPPORTING TILE ROOF-LOAD WIDTH OF 5.0m MAX AND FIRST FLOOR LOAD WITH OF 2.5m MAX

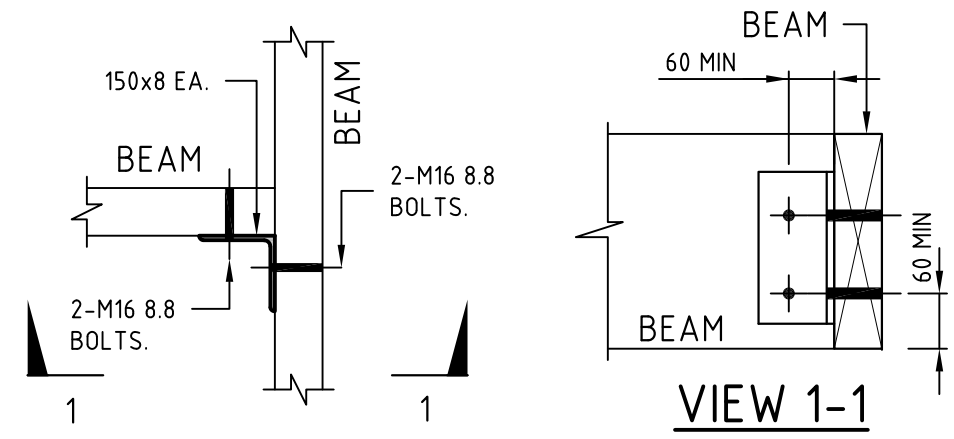
METAL ROOF RAFTER SCHEDULE		
SPAN (mm)	SECTION @ 600 crs	SECTION @ 900 crs
0 - 1600	90x45 MGP10	90x45 MGP10
1601 - 3200	140x35 MGP10	140x45 MGP10
3201 - 4200	190x35 MGP10	190x45 MGP10
4201 - 5000	240x35 MGP10	240x45 MGP10
5001 - 6000	290x45 MGP10	290x45 MGP10

PROVIDE METAL CROSS BRACE IN ACCORDANCE WITH MANU'S SPECS

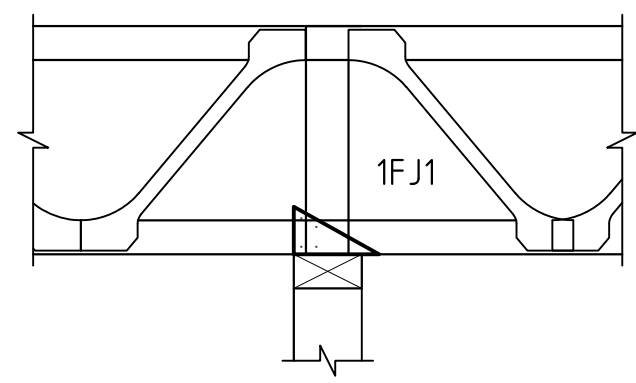
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				189087	7 of 8		
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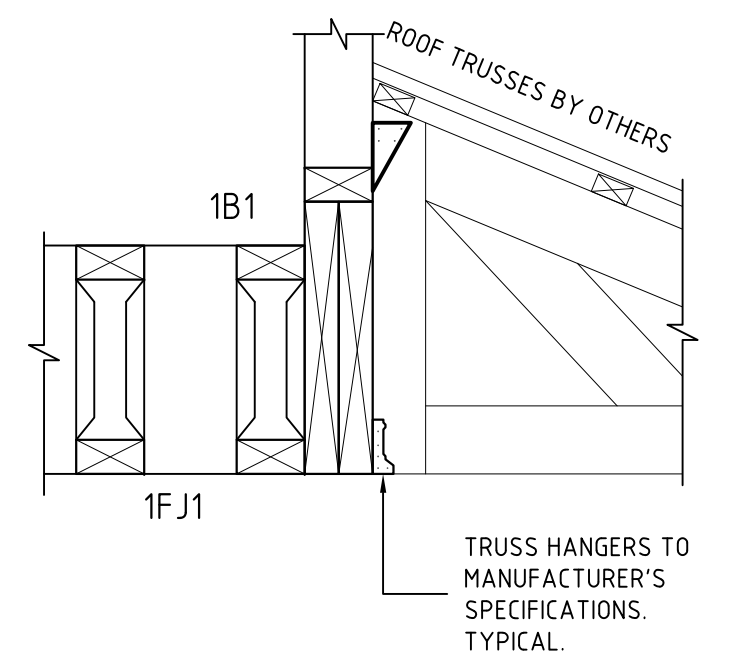


TYPICAL BEAM TO BEAM CONNECTION DETAIL
 SCALE = NTS

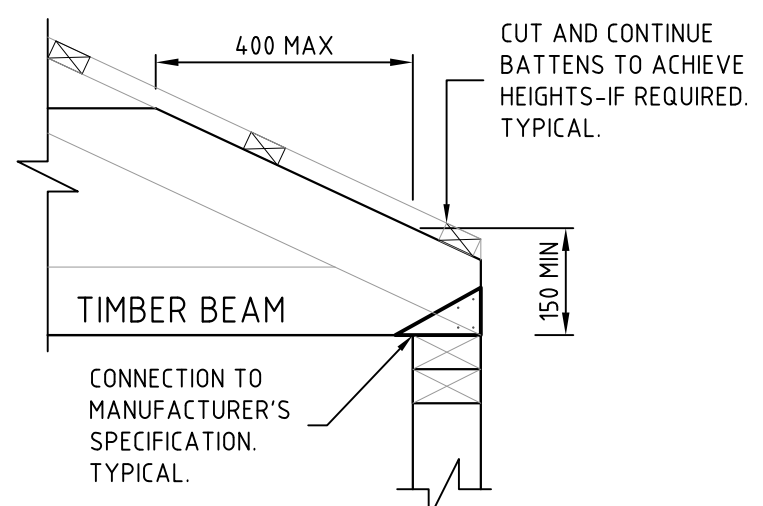


TYPICAL SECTION OVER LOADBEARING WALL
 SCALE = NTS

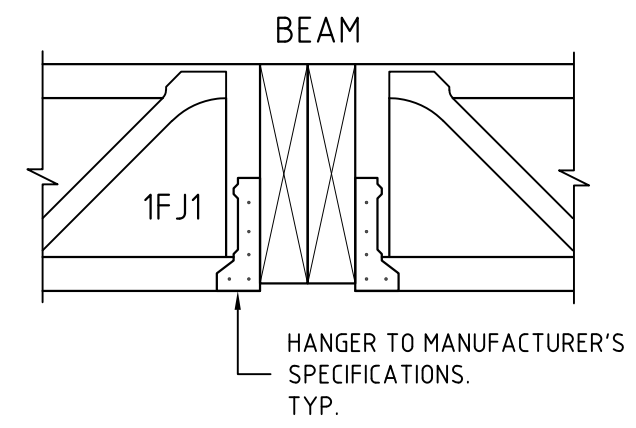
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 by 3PM 24 hrs prior
 Please email inspections@jnat.com.au



TYPICAL JOISTS TO BEAM DETAIL
 SCALE = NTS



TYPICAL TIMBER BEAM CHAMFER
 SCALE = NTS



TYPICAL JOIST TO BEAM DETAIL
 SCALE = NTS

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