

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTION AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
2. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH CURRENT SAA CODES AND LOCAL GOVERNMENT ORDINANCES.
3. THE FOOTINGS HAVE BEEN DESIGNED FOR A UNIFORM BEARING INTENSITY OF **150 kPa** FOUNDATION MATERIAL SHALL BE APPROVED BY AN ENGINEER FROM THIS OFFICE BEFORE PLACING ANY CONCRETE.
4. SITE CLASSIFICATION - **M** FOOTING SYSTEM - **WAFFLE** DESIGNED IN ACCORDANCE WITH 'AS 2870'. THE OWNER'S ATTENTION IS DRAWN TO APPENDIX A OF 'AS 2870' "PERFORMANCE REQUIREMENTS AND FOUNDATION MAINTENANCE".

FOUNDATION NOTES:

1. ALL SOFT FILLING MATERIAL AND TOP SOIL OVER THE NATURAL STRATA IS TO BE REMOVED.
 - FOR CLAY FILLING USE 150mm THICK LAYERS TO 300mm MAXIMUM DEPTH. THE CLAY IS TO BE MOIST AND COMPACTED BY MECHANICAL MEANS.
 - FOR SAND FILLING USE 150mm THICK LAYERS TO 600mm MAXIMUM DEPTH. THE SAND IS TO BE COMPACTED BY A VIBRATING PLATE OR ROLLER.
 IF EXTENT OF FILL EXCEEDS THE LIMIT OUTLINED ABOVE, THE ENGINEER IS TO BE NOTIFIED FOR FURTHER INSTRUCTION.
2. ALL TOP SOIL AND VEGETABLE MATTER ARE TO BE REMOVED FROM THE SITE AND ANY BOULDERS OR ROCKS TO BE REPLACED WITH GRANULAR FILLING.
3. SLAB AND FOOTING DETAILS REFER ONLY TO STABLE FOUNDATION MATERIALS NOT SUBJECT TO LOSS OF STABILITY DUE TO CLIMATIC CONDITIONS.

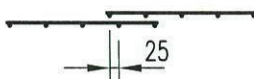
CONCRETE NOTES:

1. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH "SAA CONCRETE STRUCTURE CODE" AS 3600-2009.
2. CONCRETE QUALITY:

ELEMENT	MAX. SIZE AGGREGATE	SLUMP	DESIGN STRENGTH
WAFFLE SLAB	20mm	80mm	25 MPa
STRIP FOOTING	20mm	80mm	25 MPa
PIER	20mm	80mm	25 MPa
3. ALL READY MIXED CONCRETE IS TO COMPLY WITH AS 1379. NO ADDITIVES TO BE USED WITHOUT APPROVAL.
4. PROVIDE BAR SUPPORTS OR SPACERS AT A MAXIMUM SPACING OF 800mm CENTRED TO GIVE THE FOLLOWING CLEAR CONCRETE COVER TO REINFORCEMENT UNLESS NOTED OTHERWISE:

FOUNDATION BEAMS:	50mm
SLAB:	20mm TOP AND 30mm BTM.
5. ALL CONCRETE SHALL BE COMPACTED BY AN APPROVED IMMERSION TYPE VIBRATOR.
6. ALL CONCRETE SHALL BE CURED BY AN APPROVED METHOD FOR A MINIMUM PERIOD OF 7 DAYS IMMEDIATELY AFTER POURING.
7. CONDUITS, PIPES ETC MUST NOT BE PLACED IN CONCRETE COVER NOR SHALL HOLES OR CHASES BE ALLOWED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
8. FIX REINFORCEMENTS AS SHOW ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES.
 - N = HOT ROLLED DEFORMED BAR GRADE D500N 500MPa
 - S = HOT ROLLED RIBBED BAR D250N
 - R = PLAIN ROUND BAR GRADE R250N 250MPa
 - SL = SQUARE MESH 500L 500MPa
 - RL = RECTANGULAR MESH 500L 500MPa
 - L = TRENCH MESH 500MPa
 ALL REINFORCEMENT IS TO COMPLY WITH AS 4671 : 2001
9. SPLICES IN REINFORCEMENTS SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH THE FOLLOWING. LAPS IN REINF. SHALL BE AS SHOWN ON DRAWING. LAP LENGTHS SHALL BE 40 BAR DIA. UNLESS NOTED OTHERWISE.

FABRIC LAPS


10. FOR CONCRETE BEARING, PROVIDE ONE LAYER OF 2-PLY "MALTHOID" MATERIAL BETWEEN CONCRETE AND BRICKWORK. BEFORE PLACING MATERIAL, LEVEL OFF TOP OF BRICKWORK WITH STEEL TROWEL FINISH AND 1:3:12 MORTAR BED OF 10mm MINIMUM THICKNESS.
11. ALL BRICKWORK SHALL COMPLY WITH AS 3700.

PIERS:

1. IF LOAD BEARING BEAMS ARE BEARING ON NON-STRUCTURAL FILL, THE FOLLOWING PIER ARRANGEMENT SHALL BE USED.
 - FOR (CLAY STRATUM)
400 DIA. BORED PIERS AT 1800 CTS
 - FOR (SHALE OR ROCK)
300 DIA. BORED PIERS AT 1800 CTS OR 500x300 BULK PIERS.

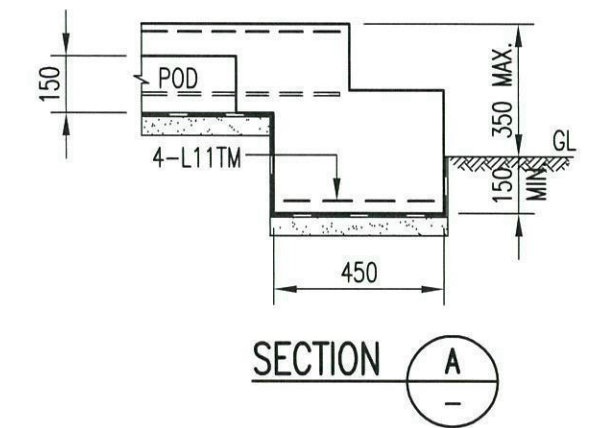
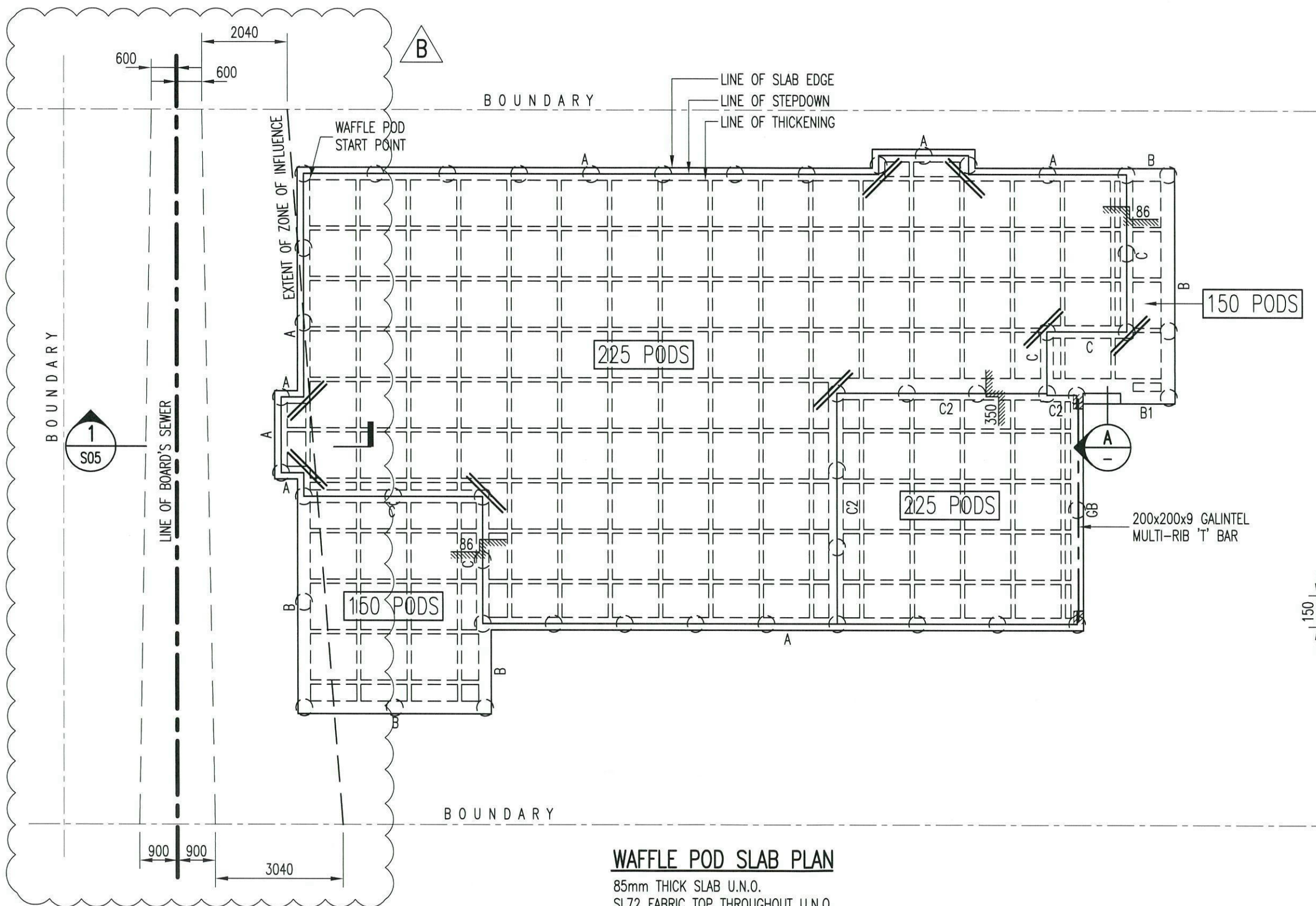
BRICKWORK NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH 'AS 3700'.
2. ALL BRICKS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20MPa.
3. BRICKWORK MORTAR TO BE A MIX 1 CEMENT 1 LIME 4.5 SAND.
4. BRICK WALLS TO BE PROVIDED WITH VERTICAL CONTROL JOINTS AT 6 METRE MAX. CTS. (CLASS M) 5 METRE MAX. CTS. (CLASS H).
5. ALL CLAY BRICKS SHALL BE EXPOSED TO AMBIENT CONDITIONS FOR MINIMUM OF 3 MONTHS BEFORE USE.
6. MAXIMUM 5 YEAR UNRESTRAINED EXPANSION OF CLAY BRICKS SHALL BE 0.8mm PER METRE.
7. CLAY BRICKS SHALL NOT BE LAID OVER FLOOR SLAB FOR MINIMUM OF 10 DAYS AFTER CONCRETING THE SLAB.
8. ALL BRICKWORK SHALL COMPLY WITH AS/NZS 4455
9. BRICKWORK ARTICULATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TN61 ARTICULATED WALLING. (CEMENT, CONCRETE AGGREGATE.).
10. ALL BRICK WALLS SUPPORTING SLABS AND BEAMS SHALL HAVE 2 LAYERS PLY MALTHOID OR SIMILAR BETWEEN CONCRETE AND BWK. BEFORE PLACING MATERIAL LEVEL OFF TOP OF BRICKWORK WITH STEEL TROWEL FINISH AND A 1:3:12 MORTAR BED OF 10mm THICKNESS.
11. NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 20mm THICK CLOSED CELL POLYETHYLENE STRIP.

STEELWORK NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH 'AS 4100'. IT SHALL ALSO BE TO THE SATISFACTION OF RELEVANT AUTHORITIES AND THE ENGINEER.
2. UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH -
 - AS 3679 GRADE 300 ROLLED SECTIONS,
 - AS 1163 GRADE 350 FOR RHS SECTIONS,
 - AS 1163 GRADE 350 FOR CHS SECTIONS,
 - AS 1204 GRADE 350 FOR ALL HIGH STRENGTH STEEL.
3. WELDS SHALL BE 6mm CONTINUOUS FILLET WELD (SP), ALL BOLTS 16mm DIAMETER COMMERCIAL GRADE, ALL CLEATS AND GUSSETS 8mm PLATE, UNLESS NOTED OTHERWISE.
4. BOLT TYPES SHALL BE AS FOLLOWS -
 - 4.6/S - COMMERCIAL BOLTS OF GRADE 4.6 TO 'AS 1111' TIGHTENED TO A SNUG TIGHT FIT.
 - 8.8/S - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO 'AS 1252' TIGHTENED TO A SNUG TIGHT FIT.
 - 8.8/TB - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO 'AS 1252' FULLY TENSIONED TO 'AS 4100' AS A BEARING TYPE JOINT.
 - 8.8/TF - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO 'AS 1252' FULLY TENSIONED TO 'AS 4100' AS A FRICTION TYPE JOINT WITH CONTACT SURFACES LEFT UNCOATED.
 ALL BOLT HOLES TO BE DRILLED, NO MORE THAN 2mm OVERSIZE U.N.O.
5. HIGH STRENGTH TB AND TF BOLTS SHALL BE INSTALLED USING APPROVED LOAD INDICATING WASHERS.
6. ALL STEELWORK SHALL BE THOROUGHLY WIRE BRUSHED AND PRIMED WITH RED OXIDE CHROMATE.
7. ALL STEEL MEMBERS MUST BE GALVANISED WHEN EXPOSED TO WEATHER
8. STEELWORK SHALL BE HANDLED AND STORED BY METHODS AND APPLIANCES THAT WILL NOT OVERSTRESS OR DEFORM IT.
9. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL WHETHER OR NOT DETAILED IN THE DRAWINGS.
10. WHERE SEALED TUBE MEMBERS ARE TO BE HOT DIPPED GALVANISED, THE FABRICATOR SHALL PROVIDE ALL DRILL HOLES AS NECESSARY.
11. THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION DURING ERECTION. SAFETY REQUIREMENTS, EQUIPMENT AND SCAFFOLDING SHALL MEET THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.
12. ALL TRANSPORT AND ERECTION DAMAGE, SITE WELDS ETC. SHALL BE REINSTATED TO AN EQUIVALENT FINISH TO ADJACENT STEELWORK.
13. FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS TO BE CONSTRUCTED IN ACCORDANCE WITH 'AS 1657-1992.

ISSUE	BY	DESCRIPTION	DATE	Date	JUNE.2013
A	FA	FOR CC	19.06.13	Scale	
				Drawn	A.S
				Checked	G.T
				 FERNANDO ALGORRY BE, MEngSc, MIE(Aust)	
<h3>ALGORRY ZAPPIA & ASSOCIATES PTY. LTD.</h3> <p>ABN 43 064 952 692</p> <p>Consulting Civil & Structural Engineers & Building Designers</p> <p>Suite 4, Level 1, 84 Bathurst Street., Liverpool, NSW 2170 P.O. Box 825, Liverpool Business Centre, NSW 1871 Tel: 9602 3133 / 9602 0303 Fax: 9601 6903</p> <p>E-mail: admin@algoryzappia.com.au Web: www.algoryzappia.com.au</p>					
Project		PROPOSED DWELLING LOT 34 DP 1166546, WEEMA STREET CADDENS			
Client		PRACTICAL BUILDING		Issue	Project No.
Title		GENERAL NOTES 'M'		A	P3924
Activity Type		CC		Job No	Sheet No
		1174-13			S00



WAFFLE POD SLAB PLAN

85mm THICK SLAB U.N.O.
 SL72 FABRIC TOP THROUGHOUT U.N.O.
 CONCRETE STRENGTH $f'_c = 25MPa$

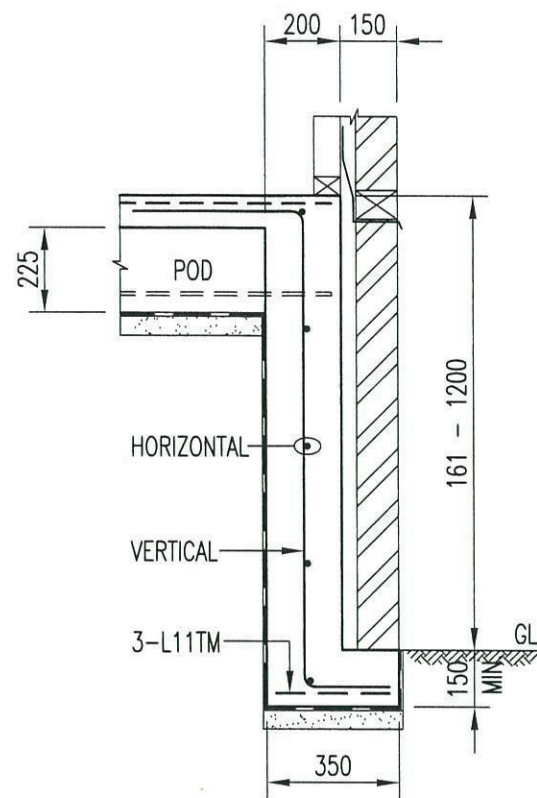
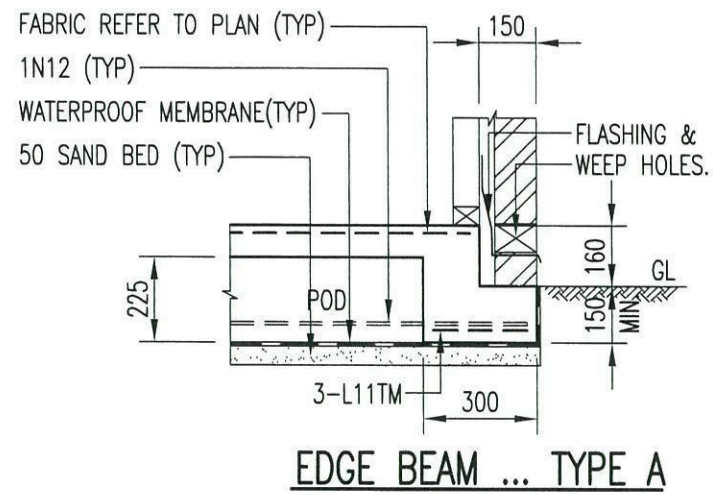
○ - INDICATES 400Ø MASS CONC PIERS 1800 MAX. CTS. U.N.O.

ISSUE	BY	DESCRIPTION	DATE	Date	JUNE.2013
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B	FA	SEWER LINE ADDED AS NOTED ON PLAN	21.06.13	Drawn	AS/LS
				Checked	G.T
				 FERNANDO ALGORRY BE, MEngSc, MIE(Aust)	

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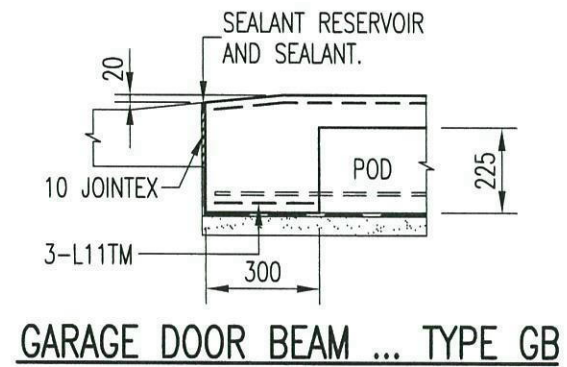
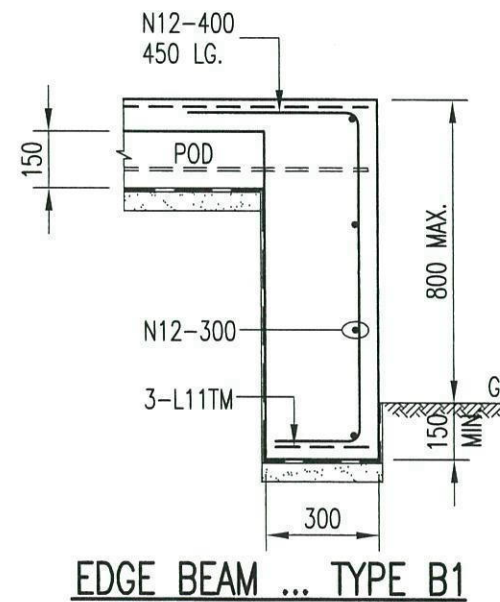
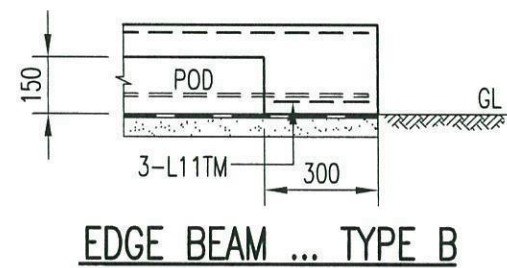
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Client		PRACTICAL BUILDING		Issue B
Title		WAFFLE POD SLAB PLAN 'M'		Project No. P3924
Activity Type	Job No	Sheet No		
CC	1174-13	S01		

A3 SHEET



DROPPED EDGE BEAM REINFORCEMENT

DROPPED EDGE BEAM DEPTH	BEAM REINFORCEMENT
161 - 400mm	R10-400 VERTICAL, 1N12 HORIZONTAL
401 - 800mm	N12-400 VERTICAL, N12-300 HORIZONTAL
801 - 1200mm	N12-300 VERTICAL, N12-300 HORIZONTAL



ISSUE	BY	DESCRIPTION	DATE	Date	JUNE.2013
A	FA	FOR CC	19.06.13	Scale	1:20
				Drawn	A.S
				Checked	G.T
				 FERNANDO ALGORRY BE, MEngSc, MIE(Aust)	

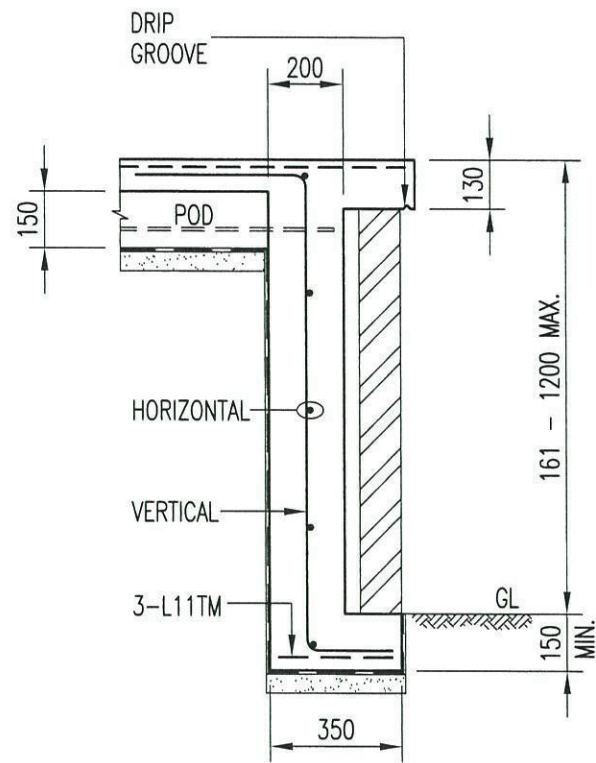
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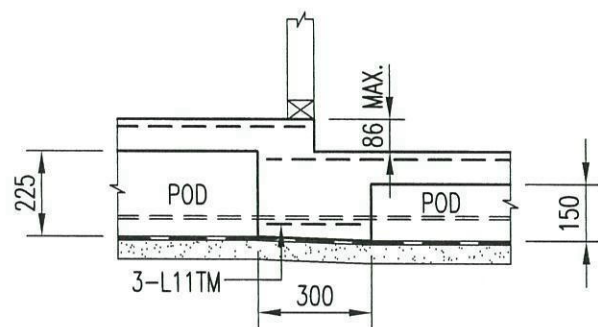
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Client		PRACTICAL BUILDING	Issue	Project No.
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Title	WAFLE POD DETAILS 'M'	Activity Type	Job No	Sheet No
		CC	1174-13	S02



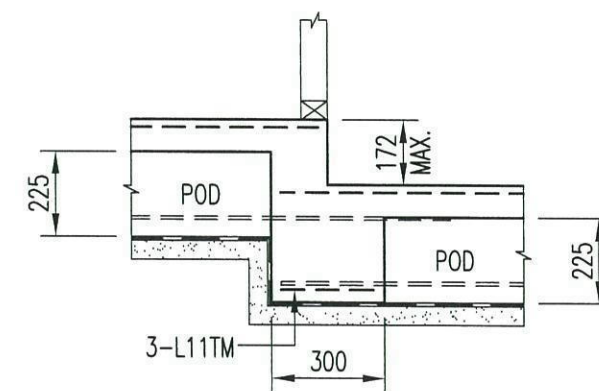
DROPPED EDGE BEAM ... TYPE B2

DROPPED EDGE BEAM REINFORCEMENT

DROPPED EDGE BEAM DEPTH	BEAM REINFORCEMENT
161 - 400mm	R10-400 VERTICAL, 1N12 HORIZONTAL
401 - 800mm	N12-400 VERTICAL, N12-300 HORIZONTAL
801 - 1200mm	N12-300 VERTICAL, N12-300 HORIZONTAL



STEP DOWN ... TYPE C



STEP DOWN ... TYPE C1

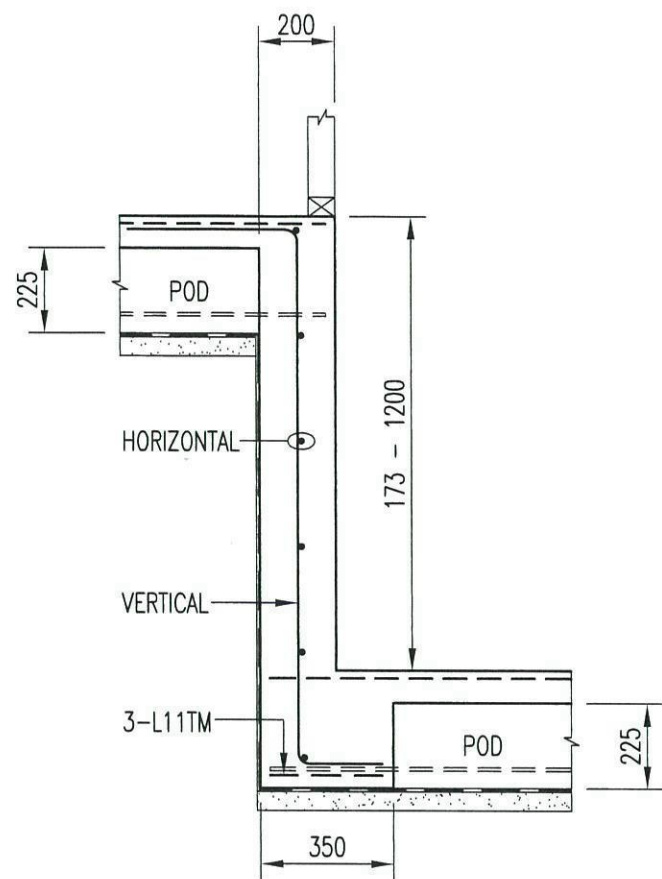
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A	FA	FOR CC	19.06.13	Scale	1:20
				Drawn	A.S
				Checked	G.T
				 FERNANDO ALGORRY BE, MEngSc, MIE(Aust)	

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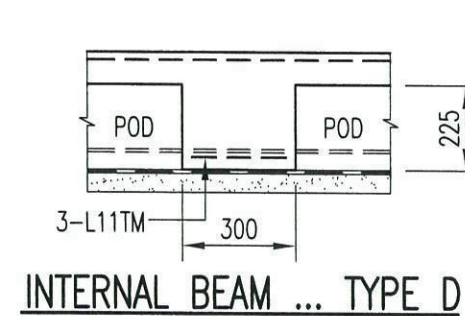
Project	PROPOSED DWELLING LOT 34 DP 1166546, WEEMA STREET CADDENS		
Client	PRACTICAL BUILDING	Issue	Project No.
		A	P3924
Title	WAFFLE POD DETAILS 'M'	Activity Type	Job No
		CC	1174-13
			Sheet No
			S03



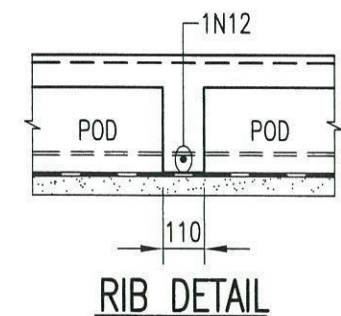
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DROPPED STEP BEAM REINFORCEMENT

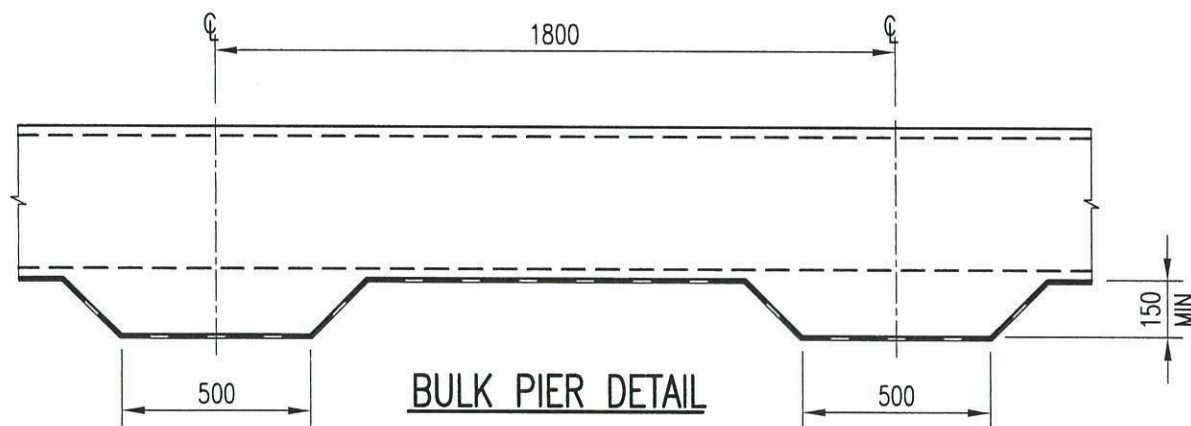
DROPPED STEP BEAM DEPTH	BEAM REINFORCEMENT
173 - 400mm	R10-400 VERTICAL, 1N12 HORIZONTAL
401 - 800mm	N12-400 VERTICAL, N12-300 HORIZONTAL
801 - 1200mm	N12-300 VERTICAL, N12-300 HORIZONTAL



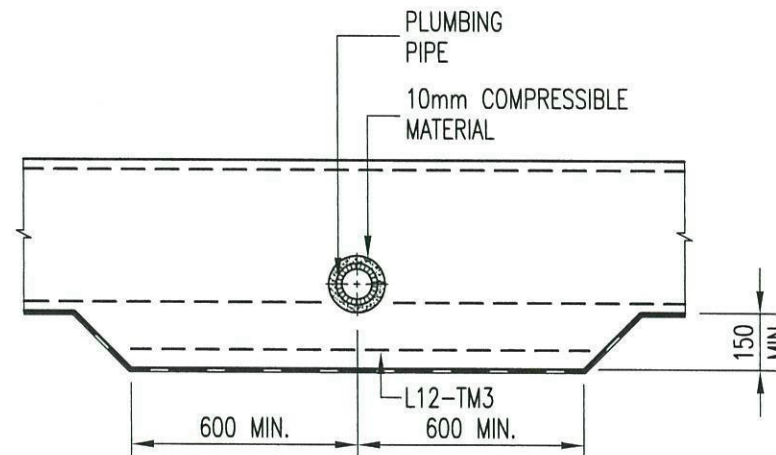
INTERNAL BEAM ... TYPE D



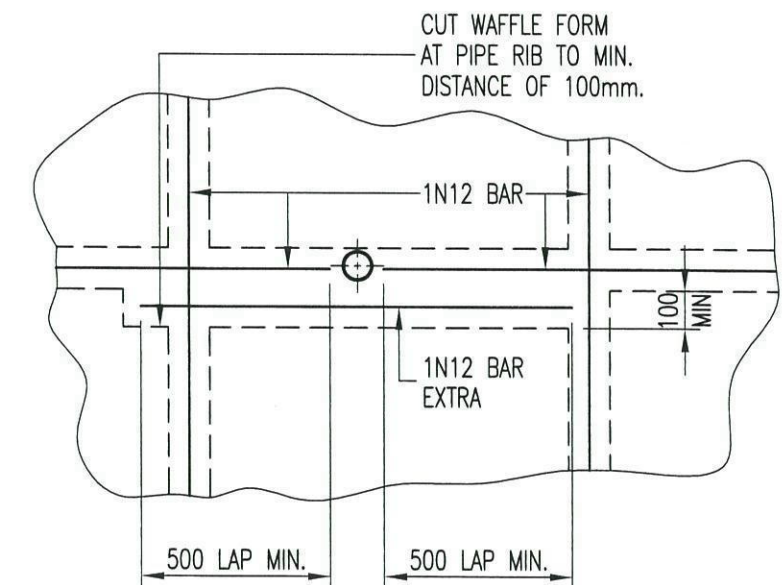
RIB DETAIL



BULK PIER DETAIL



DETAIL OF PLUMBING PIPE THROUGH FOOTING



PIPE THROUGH RIB DETAIL

ISSUE	BY	DESCRIPTION	DATE	Date	JUNE.2013
A	FA	FOR CC	19.06.13	Scale	1:20
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				 FERNANDO ALGORRY BE, MEngSc, MIECust	

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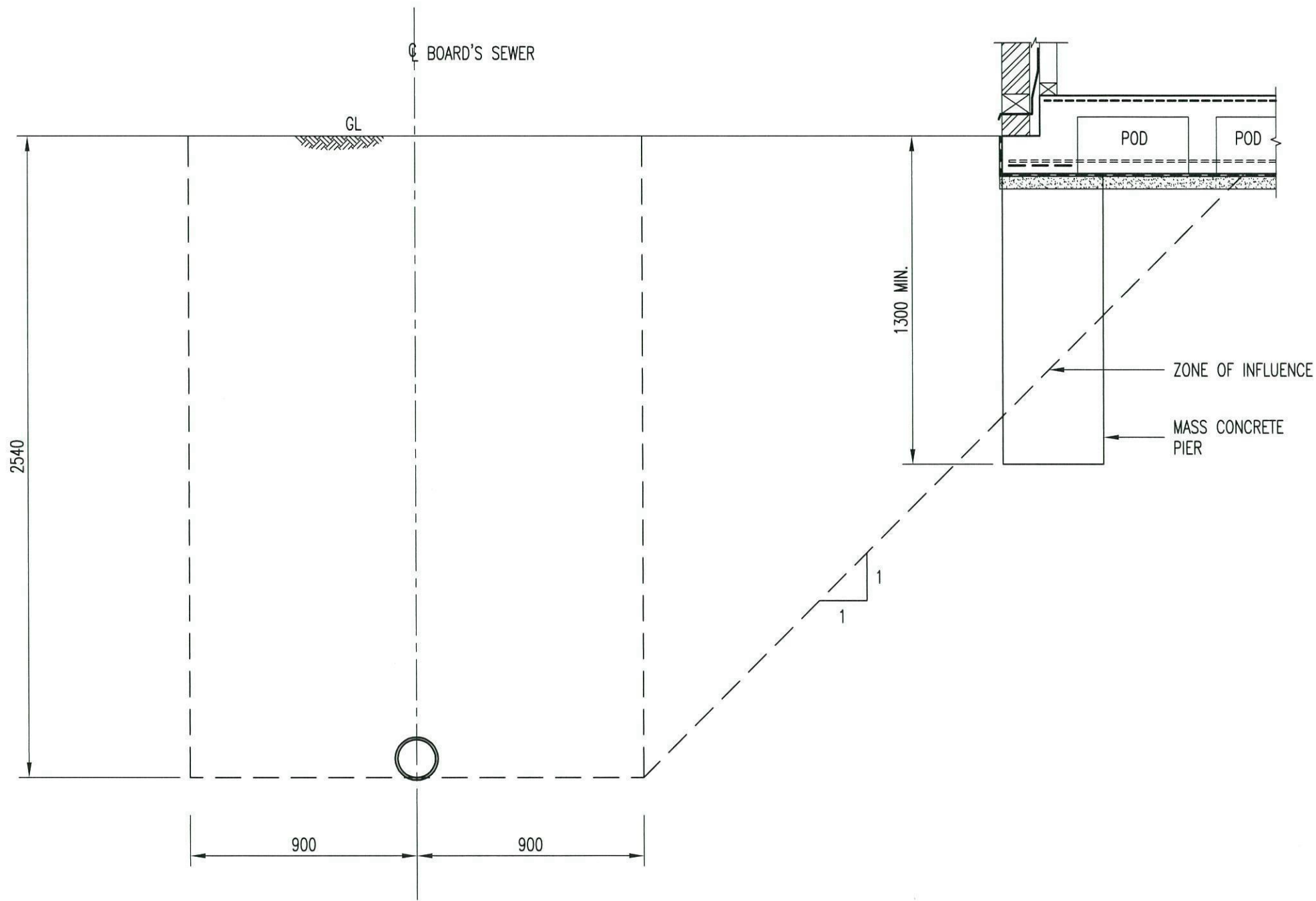
Project PROPOSED DWELLING
 LOT 34 DP 1166546, WEEMA STREET
 CADDENS

Client PRACTICAL BUILDING

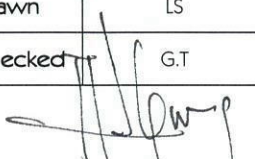
Title WAFFLE POD DETAILS 'M'

Issue A Project No. P3924

Activity Type CC Job No 1174-13 Sheet No S04



SECTION 1
SCALE 1:20

ISSUE	BY	DESCRIPTION	DATE	Date	JUNE.2013
A	FA	FOR CC	21.06.13	Scale	1:20
				Drawn	LS
				Checked	G.T
				 FERNANDO ALGORRY BE, MEngSc, MIE(Aust)	

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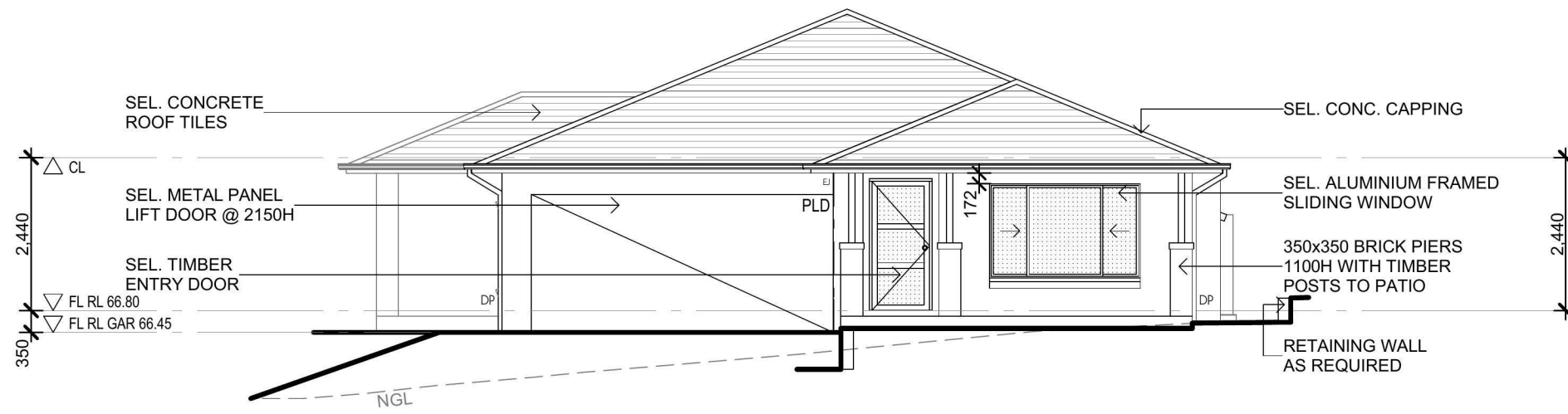
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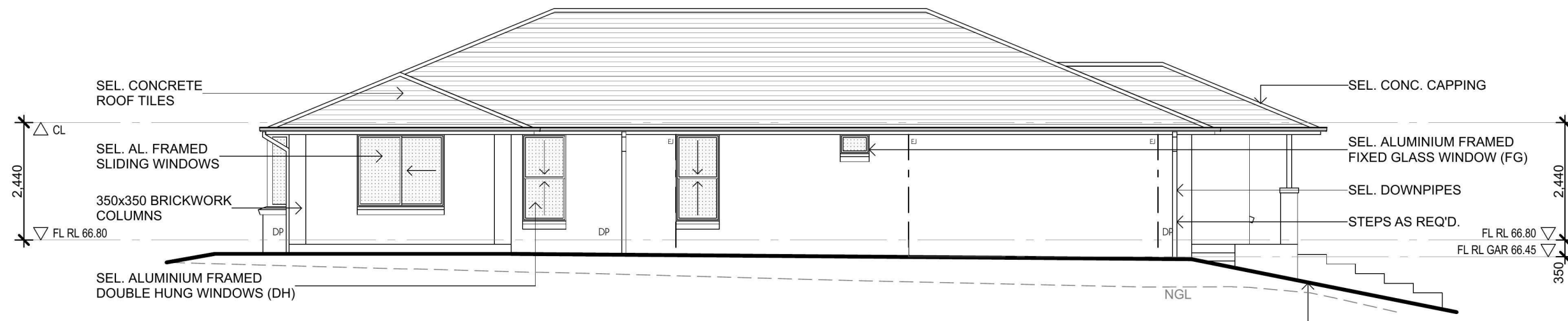
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Project		PROPOSED DWELLING LOT 34 DP 1166546, WEEMA STREET CADDENS		
Client		PRACTICAL BUILDING	Issue	Project No.
Title		SEWER LINE DETAIL	A	P3924
Activity Type	Job No	Sheet No		
CC	1174-13	S05		

A3 SHEET



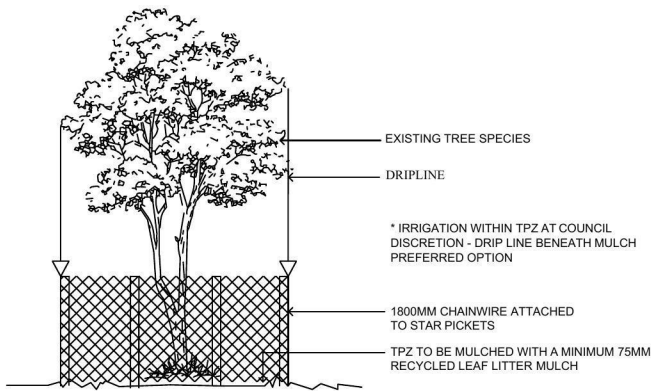
SOUTH ELEVATION
SCALE 1:100



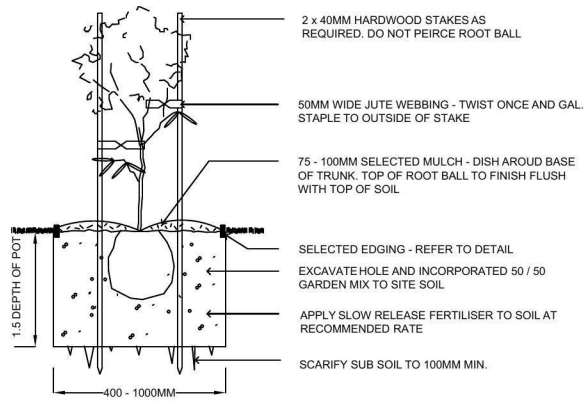
WEST ELEVATION
SCALE 1:100

Energy Rating		Certificate Number 14560120
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	heating 59.9 MJ/m ²	
	cooling 49.4 MJ/m ²	
Recessed downlights confirmation: <input type="checkbox"/> Rated with <input checked="" type="checkbox"/> Rated without		
Assessor Name/Number Thomas Ruck VIC/BDV/121456		
Assessor Signature <i>T. Ruck</i>		Date 14/02/13

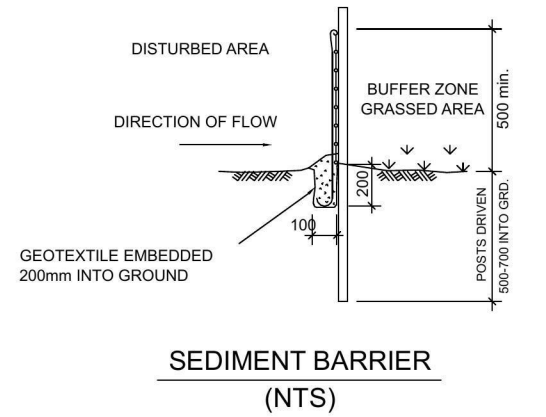
ISSUE	BY	DESCRIPTION	DATE	General Notes	Consultants	Date	MAY 2013	ALGORRY ZAPPIA & ASSOCIATES PTY. LTD. <small>ABN 43 064 958 692</small> Consulting Civil & Structural Engineers & Building Designers Suite 4, Level 1, 84 Bathurst Street, Liverpool, NSW 2170 P.O. Box 825, Liverpool Business Centre, NSW 1871 Tel: 9609 3133 / 9609 0303 Fax: 9601 6903 E-mail: azapplytd@optusnet.net.au	Project	PROPOSED DWELLING LOT 34 DP 1166546, WEEMA STREET CADDENS		
A	CZ	FOR DA	31.05.13	1) All dimensions and floor areas are to be verified by the Builder. Any discrepancies are to be brought to the attention of the designer prior to the commencement of any building work. 2) Levels shown are approximate unless accompanied by reduced levels. 3) Figure dimensions must be taken in preference to scaling. 4) All boundary clearances must be verified by the surveyor prior to the commencement of any building works. 5) Where engineering drawings are required such must take preference to this drawing. 6) Stormwater to be discharged to Council's requirements and AS 3500.3-1990. 7) All services to be located and verified by the Builder with relevant authorities before any building work commences. COPYRIGHT: This design and the associated documents is subject to copyright laws and may not be reproduced in any form without written consent from Algorry, Zappia & Associates Pty Ltd.		Scale	1:100 UNO		Client	PRACTICAL BUILDING	Project No.	P3924
						Drawn	M. ZAPPIA		Title	ELEVATIONS	Activity Type	DA/CC
						Checked	C. ZAPPIA		Job No.	1174-13	Sheet No.	A03
						Certified		Issue:	A			



TREE PROTECTION DETAIL (NTS)



25 - 75LTR TYPICAL PLANTING (NTS)

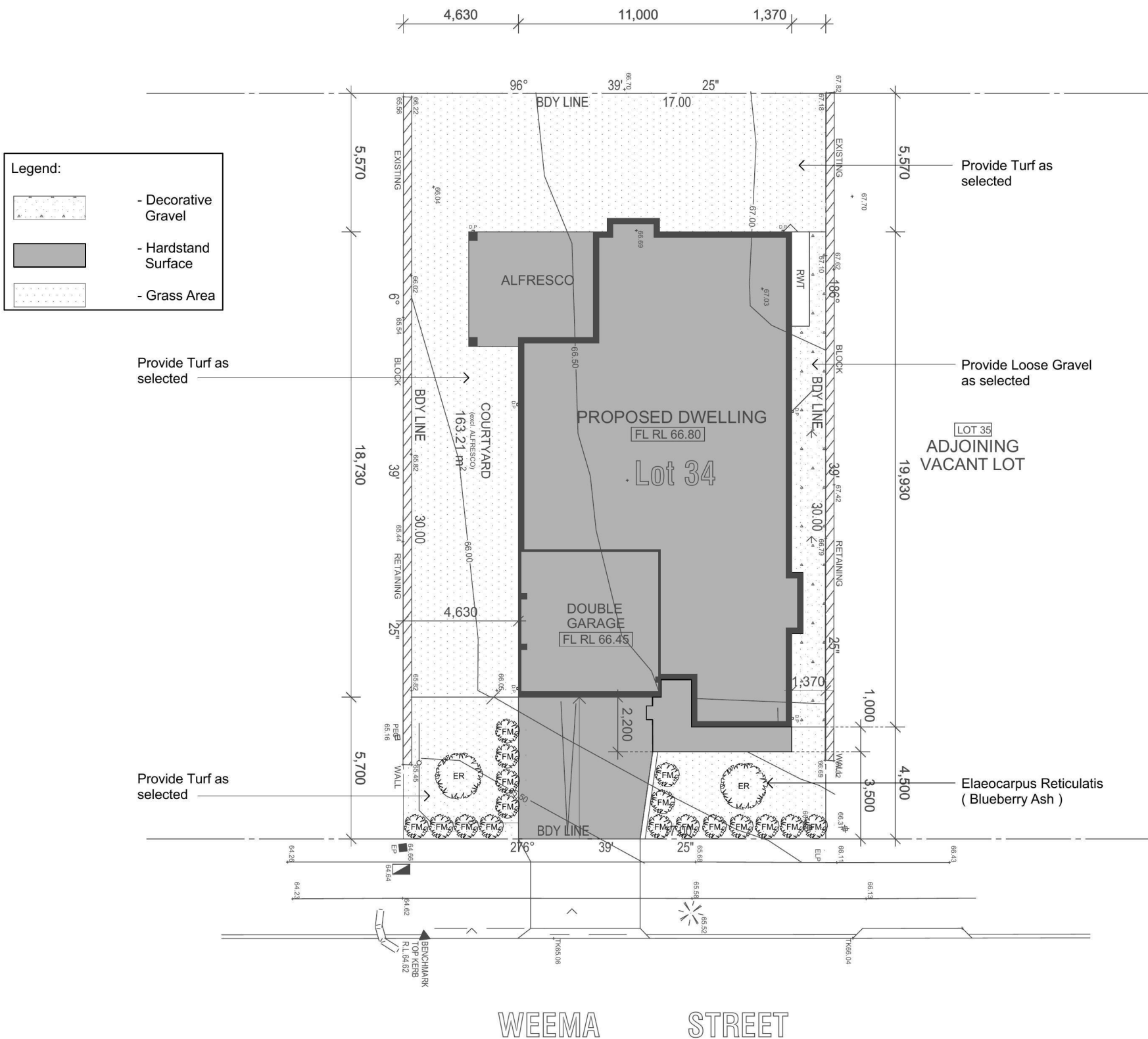


SEDIMENT BARRIER (NTS)

(PROVIDE ON ALL DOWN HILL SLOPES - UNLESS STATED OTHERWISE)

PLANT SCHEDULE

BOTANIC NAME	KEY	QTY	POT SIZE	HT (M)	WTH (M)
TREES					
Elaeocarpus Reticulatis (Blueberry Ash)	ER	2	25ltr	5.0m	3.0m
SHRUBS/ GROUND COVERS					
Lilly Pilly	FM	17	25ltr	1.5m	1.5m



Concept Landscaping Plan

scale 1:200

Issue	Amendment	Date	 JR DESIGN & DRAFTING RESIDENTIAL DESIGN & DRAFTING SERVICES Phone: (02) 9757 - 4002 Fax: (02) 9757 - 4003 Email: jr.design.drafting@gmail.com Address: 448 - 452 Victoria Street, Wetherill Park, NSW 2164	North: 	Proposed:	Drawing Title:	Revision:
A	Landscape Plan	08.07.13			Landscape Plans	L.G.A	
					Location:	Penrith Council	
					Client:	Practical Building	Job No:
						Drawn: JR	Date: 08.07.2013
						Scale: 1:200	Sheet
							1375