

A0448
CIVIL DRAINAGE DESIGN DRAWINGS
FOR BUILDING APPROVAL

PROPOSED DWELLING
25 AUSTIN STREET
NEWTOWN VIC 3220
HAMLAN HOMES

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GENERAL NOTES:

1. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND IN CONJUNCTION WITH ANY OTHER RELEVANT DESIGN DOCUMENTATION. ALL WORKS MUST ALSO BE CONSTRUCTED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL & STANDARD DRAWINGS, COUNCIL'S DESIGN GUIDELINES AND STANDARD DRAWINGS, AND ANY OTHER RELEVANT SPECIFICATIONS AND CURRENT AUSTRALIAN STANDARD GENERAL CONDITIONS OF CONTRACT.
2. WHERE PROPOSED CONSTRUCTION WORKS ARE EITHER ON OR AFFECT PRIVATE PROPERTY OTHER THAN THE DEVELOPERS LAND THEN:

a. THE CONTRACTOR CANNOT COMMENCE CONSTRUCTION WORKS ON THE PRIVATE PROPERTY UNTIL HE HAS RECEIVED A COPY OF THE OWNER'S CONSENT LETTER FOR THE WORKS

b. THE CONTRACTOR IS TO GIVE THE OWNER OF THE PROPERTY SEVEN (7) CLEAR DAYS NOTICE IN WRITING, OF HIS INTENTION TO COMMENCE CONSTRUCTION WORKS.
3. THE CONTRACTOR WILL NOTIFY AND ARRANGE WITH COUNCIL, TWO CLEAR DAYS PRIOR TO THE CONTRACTORS INTENTION TO COMMENCE THE CONSTRUCTION WORKS:

a. AN ON-SITE INSPECTION WITH SUPERVISING ENGINEER OF ALL OF THE EXISTING SURROUNDING WORKS TO ASCERTAIN IF ANY PREVIOUS DAMAGE HAS OCCURRED, OTHERWISE THE CONTRACTOR WILL BE HELD LIABLE FOR ALL THE EXISTING DAMAGED WORKS.

b. AN ON-SITE INSPECTION OF THE PROPOSED ALIGNMENT, LEVEL AND VERTICAL GRADING OF THE PROPOSED WORKS PRIOR TO BACKFILLING TO ENSURE THAT A SATISFACTORY CONNECTION CAN BE MADE BETWEEN THE EXISTING AND PROPOSED WORKS. COUNCIL MAY ORDER SECTIONS OF EXISTING WORKS TO BE REMOVED AT THE DEVELOPER'S EXPENSE, IF SATISFACTORY CONNECTION CANNOT BE MADE.
4. ANY DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IMMEDIATELY. IF IN DOUBT CONTACT THIS OFFICE.
5. THESE DRAWINGS SHALL NOT BE SCALED. USE MARKED DIMENSIONS. REFER ARCHITECTURAL DRAWINGS OR OTHER DOCUMENTATION AS REQUIRED.
6. CONFIRM ALL DIMENSIONS, SET-OUT AND LEVELS PRIOR TO PROCURING MATERIALS AND COMMENCING CONSTRUCTION WORKS.
7. DURING CONSTRUCTION WORKS, ALL STRUCTURES AND EXCAVATIONS SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION, WITH NO PART OVERSTRESSED DURING CONSTRUCTION ACTIVITIES. PROVIDE BRACING, SHORING, STRUTTING AND OTHER TEMPORARY MEASURES AS REQUIRED. ALL RELEVANT OCCUPATIONALLY HEALTH AND SAFETY DIVISION CODES OF PRACTICE SHALL BE COMPLIED WITH.
8. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES (INCLUDING ALL AMENDMENTS), THE PROJECT SPECIFICATIONS, THE NATIONAL CONSTRUCTION CODE (N.C.C.) AND CONFORM TO THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES HAVING JURISDICTION OVER THE WORK.
9. COLOUR REPRODUCTION DRAWINGS ARE TO BE USED FOR CONSTRUCTION.
- 10.THE CONTRACTOR IS TO ARRANGE WITH ALL SERVICE AUTHORITIES, AN ON SITE INSPECTION TO LOCATE ALL EXISTING SERVICES IN THE VICINITY OF PROPOSED WORKS. ANY DAMAGE CAUSED TO SERVICE AUTHORITIES PLANT WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11.DUE ATTENTION AND CARE SHALL BE MAINTAINED REGARDING THE CARRYING OUT OF CONSTRUCTION WORKS IN AREAS CONTAINING EXISTING SERVICES.
- 12.NOT ALL EXISTING SERVICES ARE IDENTIFIED ON THE DRAWINGS. LOCATIONS ARE SHOWN INDICATIVE ONLY. PERSONS UNDERTAKING CONSTRUCTION WORKS SHALL SATISFY THEMSELVES THAT THE LOCATION OF ALL SERVICES THAT MAY BE AFFECTED BY THE WORKS HAVE BEEN CORRECTLY IDENTIFIED. ENSURE A THOROUGH SEARCH IS CONDUCTED TO LOCATE ALL SERVICES.

RISK MANAGEMENT:

1. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR/BUILDER MUST DEVELOP A RISK ASSESSMENT PROGRAM FOR THE SPECIFIC TASK/JOB. A JOB SAFETY ANALYSIS (USA) SHOULD ALSO BE PREPARED TO DOCUMENT THE PROCESS AND PROCEDURE. REFERENCE TO THE AUSTRALIAN STANDARDS HIERARCHY OF CONTROLS IN AS/NZS 1981 IS RECOMMENDED WHEN DEVELOPING THIS PROGRAM TO:

a. IDENTIFY ALL OF THE IMMEDIATE AND POTENTIAL HAZARDS.

b. ELIMINATE THE HAZARDS IF POSSIBLE.

c. IF YOU CANNOT ELIMINATE THE HAZARD, CHANGE THE WAY THE WORK IS UNDERTAKEN TO AVOID EXPOSURE TO THE RISK.

d. IF EXPOSURE TO THE RISK CANNOT BE AVOIDED BY CHANGING YOUR WORK PRACTICES, USE ENGINEERED CONTROLS TO CONTAIN OR MINIMIZE THE HAZARD.

e. ALWAYS USE FALL PROTECTION TO WORK SAFELY AT HEIGHTS.

f. PROVIDE ANY REQUIRED TRAINING AS NECESSARY.

OCCUPATIONAL HEALTH AND SAFETY:

1. BUILDER TO ENSURE OCCUPATIONAL HEALTH AND SAFETY ON SITE DURING CONSTRUCTION PROCESS INCLUDING BUT NOT LIMITED TO PROPPING, BRACING, SHORING, SCAFFOLDING, STABILITY OF THE STRUCTURE, AND ERECTION.
2. BUILDER TO PROVIDE ENGINEERING COMPUTATIONS AND CERTIFICATION PRIOR TO THE CONSTRUCTION OF ALL TEMPORARY STRUCTURES INVOLVED IN THE CONSTRUCTION PROCESS, INCLUDING BUT NOT LIMITED TO PROPPING, SHORING, BRACING AND SCAFFOLDING THAT MAY CAUSE RISK TO THE PROJECT, AND/OR PERSONS.

DRAINAGE:

1. PIPE WORK IN STORM WATER DRAINAGE PITS ARE TO BE WELL ALIGNED ENSURING INCOMING FLOWS ARE DIRECTED TO THE OUTLET PIPE.
2. FOR CONSTRUCTION OF ASSETS WITHIN THE ROAD RESERVE:

a. GENERALLY, AGRICULTURAL PIPE DRAINS ARE TO BE PLACED BEHIND ALL KERB PROFILES, CONCRETE BUFFER STRIPS, BRICKWORK, RETAINING WALLS AND CONCRETE PAVEMENT.

b. WHERE UNDERGROUND STORM WATER DRAINS ARE INSTALLED BEHIND KERB PROFILES, THEN 2m LONG FILTER SOCKS ARE TO BE PROVIDED UPSTREAM OF ALL PITS.

c. THE LOCATION OF THE HOUSE DRAINS ARE TO BE STAMPED ON THE FACE OF THE KERB WITH THE LETTER "D" 50mm HEIGHT.
3. ALL REINFORCED CONCRETE PIPES ARE TO BE RUBBER RINGED JOINTED UNLESS NOTED OTHERWISE, AND MUST BE CLASS 2 UNLESS NOTED OTHERWISE.
4. WHERE STORM WATER DRAINAGE PIPES ARE TO BE INSTALLED IN FILL SITUATIONS, THE AREA IS TO BE STRIPPED, FILLED AND THOROUGHLY COMPACTED TO AT LEAST 400mm ABOVE THE OBVERT OF THE PROPOSED PIPE. THEN THE EXCAVATION OF THE PIPE TRENCH CAN BE UNDERTAKEN AND THE PIPE INSTALLED.
5. HOUSE DRAINS DAMAGED DURING SERVICE INSTALLATION ARE TO BE REPAIRED BY THE PRINCIPAL CONTRACTOR.
6. STORM WATER DRAINS WITHIN EASEMENTS ARE TO BE OFFSET 1m FROM THE PROPERTY LINE AND CLEAR OF ANY OTHER SERVICES, UNLESS NOTED OTHERWISE.
7. PROPERTY INLETS ARE TO BE PLACED 1m FROM THE LOWEST CORNER OF ALLOTMENTS, UNLESS NOTED OTHERWISE.
8. THE BUILDING PERIMETER SHALL BE PROPERLY DRAINED TO PREVENT THE COLLECTION OF WATER AGAINST THE RESIDENCE BY GRADING THE SURROUNDING SURFACE AWAY FROM BUILDINGS (MIN. GRADE 1:20 OVER 1m) OR BY PROVIDING ABOVE GROUND SURFACE COLLECTION / CUT-OFF DRAINS. THE SITE MUST BE GRADED/DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR FOOTINGS. WATER RUN-OFF SHALL BE COLLECTED AND CHanneLED AWAY FROM THE HOUSE DURING CONSTRUCTION. WHERE FILLING IS PLACED ADJACENT TO THE BUILDING, THE FILLING SHALL BE COMPACTED AND GRADED TO ENSURE DRAINAGE OF WATER AWAY FROM THE BUILDING.
9. SUB-SURFACE DRAINS SHALL NOT BE INSTALLED WITHIN 1.5m OF THE BUILDING UNLESS NOTED OTHERWISE.
- 10.EXCAVATIONS NEAR THE EDGE OF THE FOOTINGS SHALL BE BACKFILLED AND COMPACTED IN SUCH A WAY SO AS TO PREVENT THE ACCESS OF WATER TO THE FOUNDATIONS.

CONCRETE:

1. CONCRETE SHALL BE IN ACCORDANCE WITH AS2870 AND AS3600.
2. ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS4671 AND SHALL BE FREE OF LOOSE MILL SCALE, RUST AND OTHER FOREIGN MATTER.
3. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF AS3600 AND UNLESS NOTED OTHERWISE MUST HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

a. A MINIMUM COMPRESSIVE STRENGTH OF 32mPa AT 28 DAYS, UNLESS SPECIFIED OTHERWISE.

b. A 75mm SLUMP.
4. CONCRETE SHALL HAVE A MAXIMUM NOMINAL AGGREGATE SIZE OF 20mm UNLESS NOTED OTHERWISE.
5. THE CONSTRUCTION OF FOOTPATH AND DRIVEWAY CROSSINGS IS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL AND/OR RELEVANT COUNCIL STANDARDS.
6. ALL CONCRETE IS TO BE CURED APPROPRIATELY FOR A MINIMUM OF 7 DAYS BY SPRAY COATING, IMPERMEABLE COVERING OR PONDING, UNLESS APPROVED OTHERWISE.
7. RESTRAIN, CHAIR, TIE AND SUPPORT ALL REINFORCEMENT IN THE DESIGNATED POSITION TO ENSURE NO MOVEMENT DURING CONCRETE PLACEMENT.
8. PROVIDE CONSTRUCTION JOINTS ONLY AS NOTED OR APPROVED BY THE ENGINEER.
9. DO NOT POUR CONCRETE IF DAY TIME TEMPERATURES ARE EXPECTED TO EXCEED 34°C.
- 10.CONCRETE PAVING SLABS WHERE SPECIFIED ARE NON-STRUCTURAL ITEMS. MINOR CRACKING OR MOVEMENT IS POSSIBLE.
- 11.MINIMUM 300mm DEEP BY 225mm WIDE CONCRETE EDGE STRIPS ARE TO BE POURED AT LEAST 7 DAYS PRIOR TO THE APPLICATION OF THE BITUMINOUS CONCRETE OR SEAL COAT.

SERVICE TRENCHES:

1. ENSURE ANY SERVICE TRENCHES ARE MAINTAINED AT LEAST THE DEPTH OF THE EXCAVATION AWAY FROM THE FOOTINGS. CONTACT THIS OFFICE IMMEDIATELY IF THIS CANNOT BE ACHIEVED.

SITE PREPARATION, EARTHWORKS, FILLING AND COMPACTION:

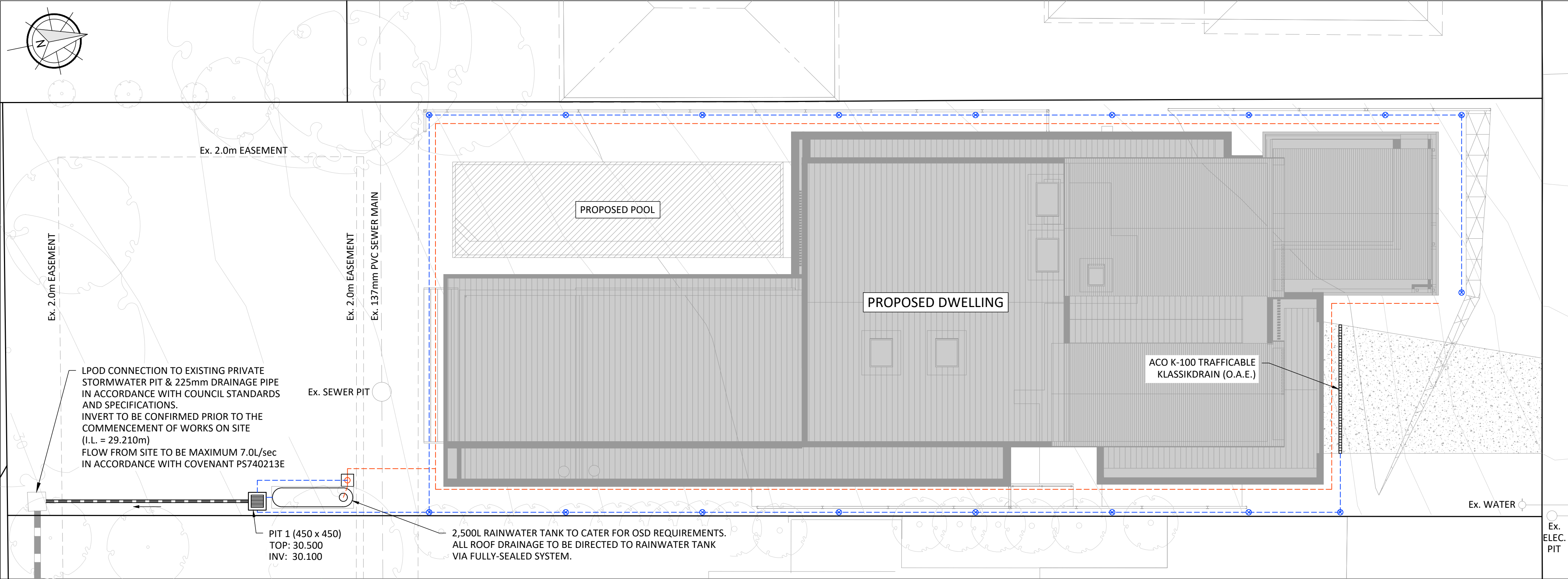
1. EARTHWORKS, PLACEMENT AND FILL MATERIAL SHALL BE IN ACCORDANCE WITH CONTROLLED OR ROLLED FILL SPECIFICATIONS AS DESCRIBED IN AS2870 AND AS3798.
2. ANY DISCREPANCIES BETWEEN MATERIAL IDENTIFIED IN THE GEOTECHNICAL/SOIL REPORT AND THAT FOUND ON SITE SHALL BE REPORTED TO THIS OFFICE. IN PARTICULAR WITH REGARD TO THE PRESENCE OF TREES, FILL, ROCK, VOIDS, SOFT SPOTS, OR TYPE, DESCRIPTION AND DEPTH OF SOIL STRATA.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT WORKSAFE VICTORIA PRIOR TO THE COMMENCEMENT OF WORK ON TRENCHES WHICH ARE DEEP ENOUGH TO REQUIRE WORKSAFE NOTIFICATION.
4. ALL FOREIGN AND LOOSE MATERIAL TO BE REMOVED FROM EXCAVATIONS PRIOR TO POURING CONCRETE.
5. ALL FILL IS TO BE CLEAN, IS NOT TO CONTAIN LARGE OR FOREIGN OBJECTS, IS TO BE PREDOMINANTLY SANDS, GRAVELS OR NON-REACTIVE CLAYS, AND IS NOT TO CONTAIN SIGNIFICANT SILTS, TOPSOILS OR ORGANIC MATTER.
6. ALL BACKFILLING MATERIAL IS TO BE WATERED IN AND COMPACTED IN 150mm THICK LAYERS.
7. PRIOR TO FILLING ON ALLOTMENTS, ROAD RESERVES, ETC. ALL AREAS ARE TO BE CLEARED, GRUBBED AND THE TOPSOIL IS TO BE REMOVED AND STOCKPILED AND LATER USED FOR REDRESSING.
8. ANY PREVIOUSLY FILLED AREAS, SOFT AREAS, UNDERGROUND TANKS AND WELLS, ETC. ARE TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
9. FOR AREAS THAT ARE TO BE FILLED, THE FOLLOWING IS REQUIRED:

a. EARTHWORKS COMPACTION TESTS ON FILL MATERIAL ARE TO BE CARRIED OUT AS DIRECTED BY THE SUPERVISING ENGINEER.

b. WHERE COMPACTION TEST HAVE BEEN REQUIRED, FILLING FOR THE NEXT LAYER IS NOT TO COMMENCE UNTIL TEST RESULTS HAVE BEEN SIGNED OFF BY THE SUPERVISING ENGINEER.
- 10.DO NOT LEAVE SITE CUT EXPOSED FOR GREATER THAN 7 DAYS, UNLESS NOTED OTHERWISE.
- 11.FILL BATTER GRADE MAX. 1 VERTICAL TO 3 HORIZONTAL, UNLESS NOTED OTHERWISE.
- 12.PRESSURISED WATER SUPPLY PIPES SHALL NOT BE INSTALLED IN GROUND UNDER BUILDINGS OR WITHIN SLABS UNLESS NOTED OTHERWISE AND ONLY WHEN PROVIDED IN A CONDUIT SUCH THAT ANY LEAKS MAY BE DETECTED.
- 13.ON CLASS M, H1, H2, E AND P SITES, EXTERNAL HOT WATER SERVICES, RAINWATER TANKS AND OTHER EXTERNAL PLUMBING FITTINGS ARE TO BE SUPPORTED ON SLABS POURED INTEGRAL WITH THE FOOTINGS, OR FLEXIBLE PLUMBING CONNECTIONS SHALL BE PROVIDED WHICH ALLOW A JOINT MOVEMENT RANGE IN ALL DIRECTIONS AS NOMINATED.
- 14.REMOVAL OF TREES AND LARGE SHRUBS; MECHANICALLY GRUB ALL ROOTS, BACKFILL WITH SOIL OR SIMILAR TYPE AND COMPACT TO THE EQUIVALENT DENSITY OF ADJOINING IN-SITU SOILS. REMOVE ALL TOPSOIL AND ORGANIC MATTER BEFORE BACKFILLING. ALLOW MOISTURE CONDITIONS TO STABILISE IN FOUNDATION SOILS PRIOR TO COMMENCING CONSTRUCTION. FOUND ALL FOOTINGS AT LEAST 200mm BELOW ANY DISTURBED SOIL AND AS DOCUMENTED ON THESE DRAWINGS. CHANGES TO SITE VEGETATION MAY IMPACT THE SITE INVESTIGATION/GEOTECHNICAL REPORT AND THE DESIGN AS DOCUMENTED. IF IN DOUBT CONTACT THIS OFFICE FOR FURTHER ADVICE.

GENERAL NOTES

REVISIONS						FOR BUILDING APPROVAL	findengineering STRUCTURAL CIVIL DESIGN PROJECT MANAGEMENT PO BOX 32 BELMONT VIC 3216 www.findengineering.com.au EMAIL: admin@findengineering.com.au			PROJECT TITLE		DRAWING NUMBER	
REV.	DATE	DESCRIPTION	DES	DR	CHK	© The information contained within this drawing is the intellectual property of FIND Engineering. The reproduction of all or part of this drawing without the express written permission of FIND Engineering is an infringement of copyright law.	PROPOSED DWELLING		A0448-C02-B				
B	22/07/26	RE-ISSUED FOR BUILDING APPROVAL	M.F.	M.F.	M.F.		25 AUSTIN STREET		22/07/26				
A	02/07/26	ISSUED FOR BUILDING APPROVAL	M.F.	M.F.	M.F.		NEWTOWN VIC 3220		N.T.S.				
							HAMLAN HOMES		SHEET				
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ON-SITE DETENTION	
OSD STORAGE REQUIRED	2.20m³
OSD STORAGE IN TANK	2.50m³
OSD STORAGE IN PITS & PIPES	-
TOTAL STORAGE ACHIEVED	2.50m³
ORIFICE DIAMETER IN TANKS	40mm

LEGEND	
	DENOTES MINIMUM 450 x 450 DRAINAGE PIT
	1000 uPVC PIPE @ 1:100 MIN. FALL (PER AS/NZS)
	1000 PVC-U FULLY-SEALED SYSTEM FOR ROOF DRAINAGE INTO RAINWATER TANK (PER AS/NZS)
	1000 PVC-U GRAVITY SYSTEM FOR SURFACE DRAINAGE @ 1:00 MIN. FALL (PER AS/NZS)
	UNDERGROUND PIPE FLOW DIRECTION
	HATCH DENOTES PAVED AREAS (1:100 MIN. FALL) - CONTRACTOR TO GRADE TO ALLOW FALL TO DRAINAGE PITS
	GRATED INSPECTION OPENING FOR GRAVITY SYSTEM

WARNING
BEWARE OF UNDERGROUND SERVICES

EXISTING UNDERGROUND SERVICES ARE TO BE CONFIRMED BY THE BUILDER ON SITE PRIOR TO ANY EXCAVATION & INSTALLATION OF THE DRAINAGE SYSTEM. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. NOTE: DETAILS OF UNDERGROUND OR OVERHEAD SERVICES HAVE NOT BEEN PROVIDED TO THIS OFFICE.

SURFACE RUNOFF NOTE:
ALL SURFACE RUNOFF (INCLUDING FROM PAVED AND UNPAVED SURFACES) SHALL BE MADE TO FALL AND DRAIN TO THE CLOSEST STORMWATER PIT (THROUGH THE STORMWATER PIPE NETWORK OR VIA SURFACE FLOWS) WITHIN THE PROPERTY BOUNDARY. ALL DRAINAGE SHALL BE CHANNLED TO THE LPOD.

ALL SURFACES WITHIN ONE (1) METER OF THE PROPOSED DWELLINGS SHALL FALL MIN 1:20 AWAY FROM THE DWELLINGS.

EXISTING TREE NOTE:
A SUITABLY QUALIFIED ARBORIST SHOULD BE ENGAGED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO REVIEW THESE PLANS. THIS OFFICE TAKES NO RESPONSIBILITY FOR THE HEALTH OF THE EXISTING NEARBY TREES, NOR THE IMPACT THAT THIS PROPOSED DEVELOPMENT MAY OR MAY NOT HAVE ON THEM.

ROOF DRAINAGE NOTE:
ALL EXISTING AND PROPOSED ROOF DRAINAGE (DOWNPIPES / GUTTERS / ETC.) BY OTHERS, AND SHALL BE CONNECTED TO THE TANK VIA FULLY-SEALED SYSTEM.

NOTE:
THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS (BY OTHERS). ALL PIPES SHOWN ON THIS PLAN ARE INDICATIVE ONLY & WHERE POSSIBLE SHOULD NOT PENETRATE THROUGH ANY FOOTINGS.

NOTE:
THIS DESIGN IS BASED ON THE SURVEY INFORMATION PROVIDED TO THIS OFFICE. ANY DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE AND A RE-DESIGN MAY BE REQUIRED.

SUB-SURFACE DRAINAGE NOTE:
LOCATION AND CONNECTION POINTS OF ALL AGI PIPES SHOWN INDICATIVE ONLY AND SHALL BE DETERMINED ON SITE DURING CONSTRUCTION. AGI DRAINS SHALL DRAIN TO THE CLOSEST PIT.

NOTES	
CIVIL GENERAL NOTES:	
1.	THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE GENERAL NOTES ON SHEET C01.
2.	ANY DEBRIS/SILT SHALL BE PREVENTED FROM ENTERING THE DRAINAGE SYSTEM.
3.	THE STORMWATER DRAINAGE SHALL BE CONTROLLED USING APPROVED SCREENING SUCH AS ENVIROPOD, EVERGARD PITS OR EQUIVALENT.
4.	SCREENING SHALL BE MAINTAINED AT REGULAR INTERVALS. MORE ADVANCED SCREENING SYSTEMS SUCH AS VORTSCAPTURE OR EQUIVALENT AS PER MANUFACTURER'S SPECIFICATIONS MAY BE USED AS AN ALTERNATIVE SUBJECT TO COUNCIL'S REQUIREMENTS.
5.	STORMWATER PIPES SHALL BE Ø100 PVC MINIMUM AND MUST HAVE A MINIMUM GRADE OF 1:100 UNLESS NOTED OTHERWISE.
6.	ALL STORMWATER PIPEWORK SHALL BE AS SPECIFIED AND INSTALLED IN ACCORDANCE WITH AS3500.3.
7.	ANY STORMPRO PIPE OR APPROVED EQUIVALENT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. THE TRENCH SHALL BE BACKFILLED WITH CLASS 2 CRUSHED ROCK AND COMPACTED AS PER MANUFACTURER'S REQUIREMENTS.
8.	PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO CONFIRM THE INVERT LEVEL OF THE LEGAL POINT OF DISCHARGE. THIS OFFICE SHALL BE NOTIFIED OF ANY DISCREPANCIES.
9.	PRIOR TO THE COMMENCEMENT OF WORKS THE STORMWATER DRAINAGE SYSTEM SHALL BE CHECKED TO ENSURE ALL PIPES CAN BE LAID AT A MINIMUM GRADE OF 1:100, AND A MINIMUM COVER OF 100mm TO THE OBVERT OF THE PIPE CAN BE ACHIEVED. THIS OFFICE SHALL BE NOTIFIED IF THIS CANNOT BE ACHIEVED.
10.	CONSTRUCTION OF THE DRAINAGE SYSTEM SHOULD BEGIN AT THE DOWNSTREAM LEGAL POINT OF DISCHARGE.
11.	THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY AND FULL LIABILITY FOR ALL MODIFICATIONS AND/OR CHANGES MADE WITHOUT THE WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND/OR RESPECTIVE COUNCIL ENGINEER/INSPECTOR.
12.	CONSTRUCTION AND LAYING OF ALL NEW STORMWATER DRAINAGE PITS AND PIPES SHALL BE AS PER COUNCIL'S STANDARD SPECIFICATIONS AND DETAILS, AND AS PER ALL RELEVANT AUSTRALIAN STANDARDS.

REVISIONS					FOR BUILDING APPROVAL				
REV.	DATE	DESCRIPTION	DES	DR	CHK				
B	22/07/26	RE-ISSUED FOR BUILDING APPROVAL	M.F.	M.F.	M.F.				
A	02/07/26	ISSUED FOR BUILDING APPROVAL	M.F.	M.F.	M.F.				

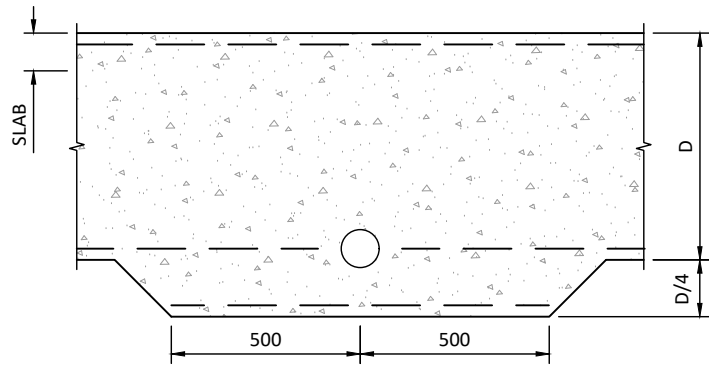
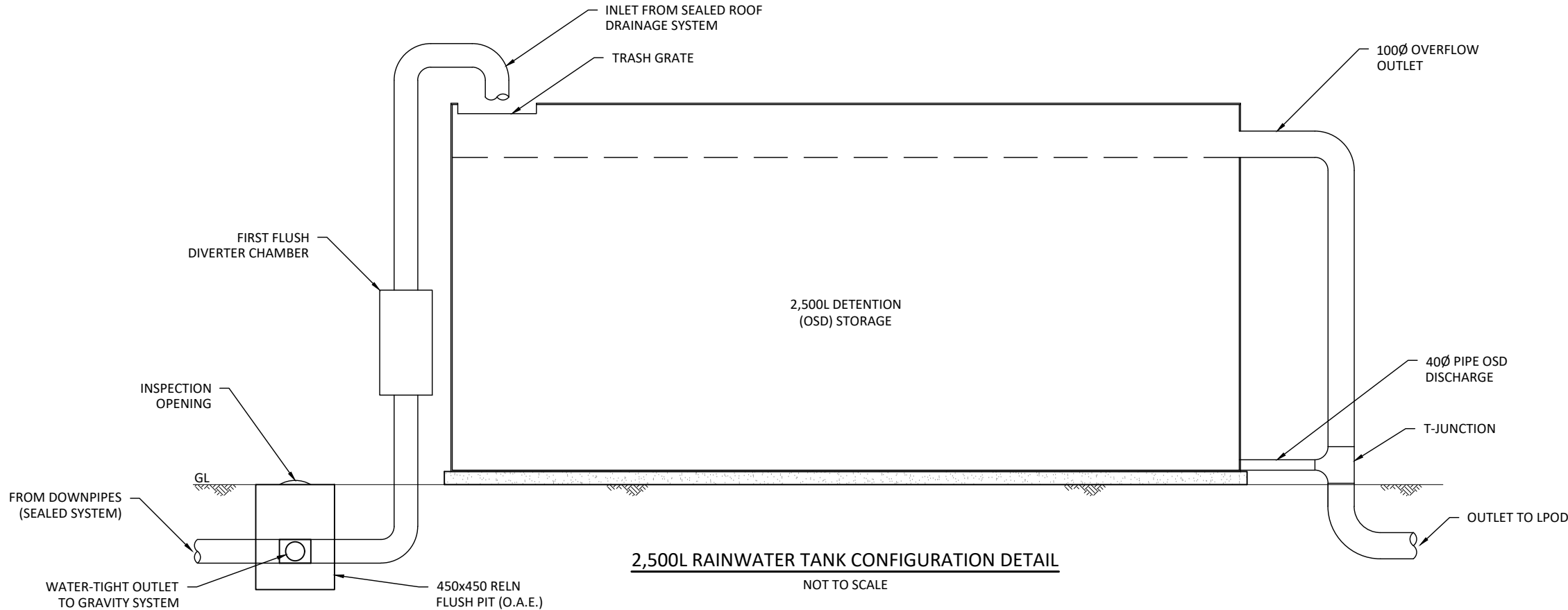
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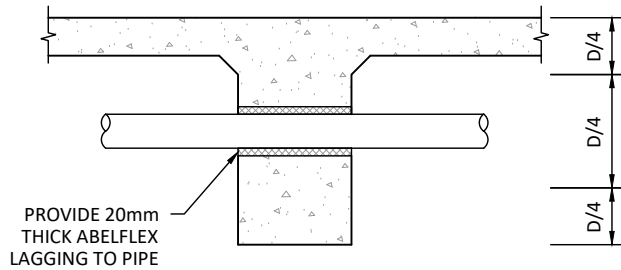
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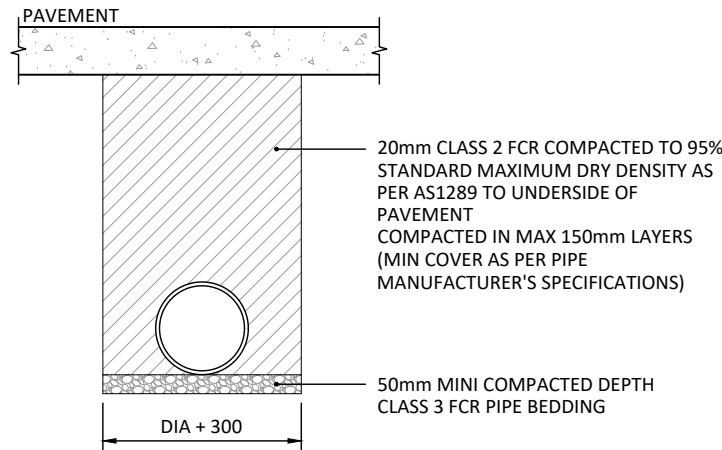
PROJECT TITLE	PROPOSED DWELLING	DRAWING NUMBER	A0448-C03-B
SITE ADDRESS	25 AUSTIN STREET NEWTOWN VIC 3220	DATE	22/07/26
CLIENT	HAMLAN HOMES	SCALE	1:100
		SHEET	3 OF 4 A2



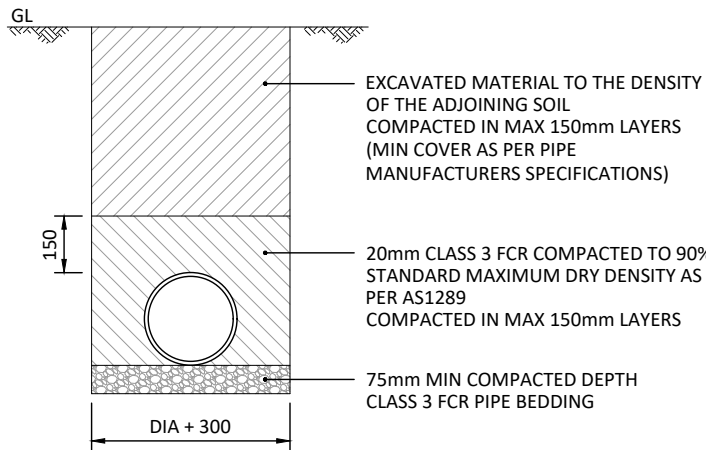
TYPICAL PIPE PENETRATION THROUGH
SLAB RIB / EDGE BEAM
PIPE INTERFERING WITH RIB REINFORCEMENT



TYPICAL PIPE PENETRATION THROUGH
SLAB RIB / EDGE BEAM
UPIPE CENTRAL IN FOOTING
NOTE: PIPE DIAMETER MAY BE LOCATED ANYWHERE WITHIN
THE CENTRAL D/2 SECTION OF THE RIB / EDGE BEAM



TYPICAL PIPE DETAILING
OF PAVED AREAS



TYPICAL PIPE DETAILING
OF LANDSCAPED AREAS

TYPICAL DETAILS

REVISIONS

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B	22/07/26	RE-ISSUED FOR BUILDING APPROVAL	M.F.	M.F.	M.F.
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FOR BUILDING APPROVAL

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SCALE

N.T.S.

SHEET

4 OF 4

A3