

DRAINAGE NOTES

EXCEPT AS MODIFIED BY - ALL EXISTING SERVICES ARE TO BE IDENTIFIED AND LOCATED BY CONTRACTOR PRIOR TO COMMENCING WORK. STORMWATER CONCEPT (PLAN 5 REFER TO ARCHITECTURAL PLANS FOR BUILDING AND DRIVEWAY OF 43 REDUCING THE UNIT **DEVELOPMENT FROM 7 DWELLINGS** - HINHUM PIPE FALLS: 12.
- LEVELS SHALL BE ±10mm HAXHUM UNLESS NOTED OTHERWISE, EXCEPT IN INSTANCES WHERE SUCH DEVIATION COULD HAVE ADVERSE EFFECTS, IN WHICH CASE, THE ENGINEER SHALL BE CONTACTED UNITS TO 6 DWELLING UNITS (SEE THE SCHEDULE OF DOCUMENTS - PIPE LOCATIONS ARE DIAGRAMATIC. FINAL POSITIONS SHALL CONFORM FOR DA 17-631

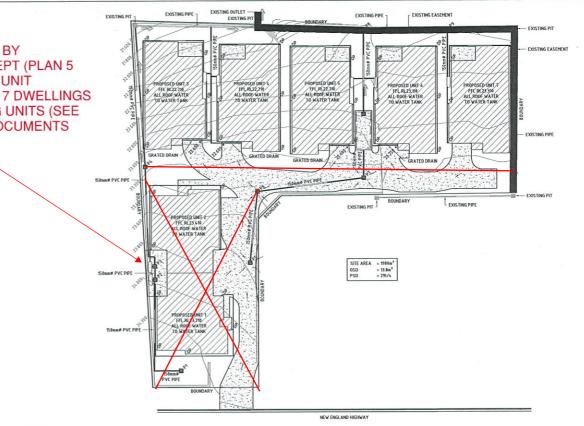
- THE CONTRACTOR SHALL ADEQUATELY SHELD PIPES AGAINST CONSTRUCTION AND PERMANENT LOADS. WHERE ADEQUATE COVER CANNOT BE PROVIDED, PIPES SHALL BE ENCASED IN CONCRETE - UNLESS NOTED OTHERWISE, WHERE A PIT INVERT IS BELOW THE INVERT OF THE LOWEST OUTLET PIPE THE CONTRACTOR SHALL EITHER PROVIDE DRAINAGE HOLES IN THE BASE OF THE PIT OR ELSE FILL THE BASE OF THE PIT WITH MASS CONCRETE TO THE INVERT OF THE LOWEST - WHERE REQUIRED BY REGULATIONS, STEP IRONS IN ACCORDANCE WITH

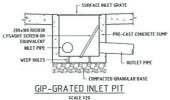
AS1657 SHALL BE INSTALLED IN DEEP PITS/TANKS TO ALLOW ACCESS FOR MAINTENANCE, PIT COVERS OVER DEEP PITS SHALL BE "CHILD-PROOFED" BY BOLTING THEM DOWN, EXCEPT WHEN THE COVER WEIGHS MORE THAN 30Kg. - ALL IMPERVIOUS SURFACES SHALL BE GRADED SUCH THAT THEY ARE

FREE DRAINING, YARD PITS SHALL BE PROVIDED AS REQUIRED. - WHERE REQUIRED BY THE PRINCIPAL CERTIFIER, WORK AS-EXECUTED DETAILS SHALL BE PREPARED BY A REGISTERED SURVEYOR/CHARTERED PROFESSIONAL ENGINEER VERIFYING THAT THE DRAINAGE SYSTEM HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS, ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER. ADEQUATE INSPECTIONS SHOULD BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION. - ANY PROPOSED ALTERATIONS TO THE DETAILS SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL - LEAF SCREENS, SILT CONTROLS AND ANY OTHER POLLUTION CONTROL DEVICES SHALL BE REGULARLY SERVICED TO ENSURE THAT THE DRAINAGE SYSTEM REMAINS UNBLOCKED AND OPERATES AS DRIGINALLY INTENDED.

- OVERLAND FLOW PATHS SHALL BE REGULARLY MAINTAINED AND KEPT ERFE OF ORSTRUCTIONS TO THE FLOW OF WATER

ALL LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORK





- SURFACE INLET GRATE

PRECAST CONCRETE SUMP

OUTLET PIPE

COMPACTED GRANULAR BASE

GIP-GRATED INLET PIT

SCALE 120

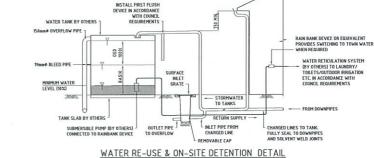
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LYSAGHT SCREEN OF

FOUIVALEN

INLET PIPE

WEEP HOLES



SCALE 150

DRAINAGE LOCATION PLAN

SCALE 1:200

THOMAC			GENERAL CAUTION IS HEREBY GIVEN TO ANY						ANAMBAH CONSTRUCTIONS Pty Ltd			
	SCALE THIS DRAWING IS	AUSTRALIA Charlered Professional Engineer	PERSON EXCAVATING ON SITE. SERVICE ENQUIRES TO DIAL BEFORE YOU DIG	-				-	ADDRESS. LOT A & LOT 1, DP 362226 & D	OP 366910, NE	W ENGLAND HWY, RUTHERFORD, N	VSW 2320
	COPYRIGHT OF THOMAS AND ASSOCIATES CONSULTING PV LM	MEMBER	SHOULD BE UNDERTAKEN PRIOR TO SUCH EXCAVATION, NO						DESCRIPTION DRANAGE LOCATION	PLAN, N	OTES AND DETAILS	
ENGINEERING	AND SHALL NOT BE LISED FOR PLIKHOLS	DIAL BEFORE	LIABILITY TO DISRUPTION OR INTERFERENCE WITH	-					CHECKED BY: ADAM	A DAVIES	B.E., MIE Aust., CP Eng, NPER-3	
114 Barton Street, PO Box 76, Kurri Kurri NSW 2327	SPEOFED UNAUTHORISEDUSE FOR ANY OTHER	YOU DIG	ANY EXISTING SERVICES DUE TO THE ACTION OF OTHERS EXISTS THROUGH			TW		16/05/2017	scales 1:200, 1:50, 1:20	SHEET SIZE		SHEET NUMBER
Phone 02 4937 1562 ABN 65 106 192 661	CF COPYRGHT AND IS	www.1100.com.au	THE MAKING OF THIS PLAN.	A	ISSUED FOR CONSTRUCTION DESCRIPTION		AD	16/05/201/ DATE	DRAWN BY TIMOTHY WILLLIAMS	A1	170154	D01

			PIT SCHEDU	ILE		
PIT	TOP RL (m)	INVERT RL (m)	DEPTH (mm)	SIZE (mm)	TYPE	OUTLET PIPE (mm#
P1	23.500	23.050	450	600×600	GIP	150mm
P2	23.230	22.780	450	600×600	GIP	150aa
P3	23.200	22.750	450	600×600	GIP	150mm
P4	22.700	22.250	450	600×600	GIP	150mm
P5	23.300	22.500	800	600×600	GIP	150mm
P6	22.550	22.300	250	600×600	GIP	150mm
P7	22.510	22.100	410	600+600	GIP	150mm
P8	22.350	21.100	1250	600×600	GIP	EXISTING 150mm
P9	22,400	21.400	1000	600×600	GIP	EXISTING 150mm

SLAB AND FOOTING NOTES

= REFER TO ARCHITECTURAL PLANS FOR SET OUT DIMENSIONS. - SLAB TO BE LAID ON 200µm THICK WATERPROOF MEMBRANE ON 50mm THICK LEVELING LAYER OF SAND OVER NATURAL CUT GROUND OR COMPACTED FILL. - REMOVE ALL VEGETATION FROM BENEATH THE SLAB. A SUB-BASE AND VIEL AND THE HER OWNER HER AND THE AREA. SUB-BASE AND VIEL HER TO BE HERDINGHY (OWNERTED. - VIERE ROOK IS DECEMBER ON THE AREA TO BE HERDING AND THE ASSOCIATES FOR EXCEPT AS MODIFIED BY AND THE ROOK IS DECEMBER ON THE ASSOCIATES FOR EXCEPT AS MODIFIED BY - ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH AS 3600. - LAP ALL MESH 1 FULL MESH +25mm. - LAP ALL BARS 600mm U.N.O. - REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION. POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OF SUPPORT BARS. - AT CONTROL JOINTS (CJ) CUT EVERY 2nd REO BAR & FORM DEEP GROOVE TOOLED JOINT OR SAW CUT WITHIN 24 HOURS. - PROVIDE TERMITE PROTECTION IN ACCORDANCE WITH AS 3660.1.

- SLAB & FOOTINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH TI AUSES 11 13 & 14 OF AS 2878 DETAILS NOT SPECIFICALLY IN ACCORDANCE WITH AS 2870 HAVE BEEN DESIGNED IN ACCORDANCE WITH ENGINEERING PRINCIPLES.

TILED AREAS:

AS2870 MAKES THE FOLLOWING RECOMMENDATIONS FOR SLAB SHRINKAGE CONTROL IN TILED AREAS GREATER THAN 16m² WHERE BRITTLE FLOOR COVERINGS ARE TO BE USED. EXTRA MEASURES SHALL BE TAKEN TO CONTROL THE EFFECTS OF SHRINKAGE CRACKING. SUCH MEASURES INCLUDE ONE OR MORE OF THE FOLLOWING:

(I) THE AMOUNT OF SHRINKAGE REINFORCEMENT SHALL BE INCREASED TO SL 92 OR EQUIVALENT THROUGHOUT THE AFFECTED SLAB PANEL.

60 THE BEDDING SYSTEM FOR BRITTLE COVERING SHALL BE SELECTED ON THE BASIS OF THE EXPECTED SLAB MOVEMENT AND THE CHARACTERISTICS OF THE FLOORING SYSTEM.

(iii) THE PLACEMENT OF FLOOR COVERINGS SHALL BE DELAYED. NOTE: A MINIMUM PERIOD OF 3 MONTHS DRYING OF THE CONCRETE IS USUALLY REQUIRED BEFORE PLACEMENT OF THE BRITTLE FLOOR COVERINGS

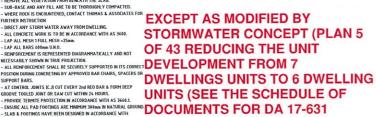
CONCRETE SPECI	ICATIONS				
ELEMENT	STRENGTH (f'c				
STRIP FOOTINGS	20MPa				
PAD FOOTINGS	20HPa				
SLABS ON GROUND	20MPa				
DRIVEWAYS/CARPARK	25MPa				
SUSPENDED SLABS	32MPa				
COLUMNS	32MPa				
STAIRS	32MPa				
WALLS	32MPa				
CONFIRM ANY DISCREPANCIES ASSOCIATES CONSULT CONSTRUCT	NG PRIOR TO				

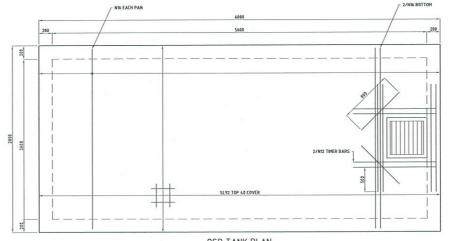


METHOD OF LAPPING MESH

BLOCKWORK

- HORIZONTAL REINFORCEMENT IN WALLS TO BE SPLICED AT JOINS IN WALLS AND CORNERS. - LAP ALL BARS 600mm U.N.O - PROVIDE 'E' SHAPED CLEAN OUT BLOCK AT BASE OF WALL, OMIT HORIZONTAL BAR FROM TOP OF THIS BLOCK. - PROVIDE VERTICAL CONTROL JOINTS @ 6m c/c MAX. - CORE-FILL WITH 20MPa, 10mm AGGREGATE, GROUT. - FILL ALL REQUIRED CORES & THOROUGHLY COMPACT GROUT, ENSURING NO VOIDS ARE LEFT. - REMOVE ALL MORTAR FINS PROTRUDING INTO WALLS. - ALL GROUTING TO BE IN ACCORDANCE WITH AS 3700.





OSD TANK PLAN SCALE 120

