

GENERAL NOTES:

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S STORMWATER, DETENTION & SEDIMENT CODE
- THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJOINING LANDS
- WITHOUT THE PERMISSION OF THE SUPERINTENDENT.
- ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS ALL IMPORTED FILL SHALL BE APPROVED BY THE COUNCIL. THE FILL SHALL BE PLACED IN NOT MORE THAN 300mm LAYERS AND SHALL BE COMPACTED TO AT LEAST 98% STANDARD COMPACTION TO COUNCIL'S SPECIFICATION.
- PROVIDE VEHICULAR CROSSING TO COUNCIL'S SPECIFICATION IN KERB WHERE SHOWN (IF
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO
- ALL IMPORTED FILL TO BE USED TO SUPPORT GROUND SLABS SHALL BE COMPACTED TO A MINIMUM LEVEL OF COMPACTION OF 98% OF MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +- 2% OF OPTIMUM (AS1289.5.1.1)
- STEP IRONS AT 300mm CENTRES & TO COUNCIL'S SPECIFICATIONS SHALL BE PROVIDED WHERE PITS ARE DEEPER THAN 1000mm
- ALL DOWNPIPES ARE SHOWN DIAGRAMATICALLY POSITION OF DOWNPIPES SHALL BE
- EXISTING LEVELS AND SERVICE DEPTH AND LOCATION TO BE CHECKED PRIOR TO CONSTRUCTION.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DOCUMENTATION WHICH INCLUDE BUT IS NOT LIMITED TO ARCHITECTURAL AND SURVEY

SEDIMENT & EROSION CONTROL

- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO THE COUNCIL'S SPECIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A SATISFACTORY WORKING ORDER DURING THE CONSTRUCTION PERIOD. INSPECTIONS OF THESE DEVICES SHALL BE CARRIED OUT AFTER EACH STORM. REPAIRS AND/OR DE-CLOGGING SHALL BE CARRIED OUT TO ENSURE PROPER OPERATION OF THE DEVICE.
- PROVIDE TEMPORARY CONSTRUCTION EXIT TO SHAKE OFF SITE MATERIALS FROM EXITING VEHICLES AND SHALL CONSIST OF A PAD OF COURSE CRUSHED ROCK, (75mm TO 150mm RANGE) HAVING A MINIMUM DEPTH OF 200mm, A MINIMUM LENGTH OF 25m AND 3.5m WIDE OR "CATTLE GRID" SYSTEM.
- THE GULLY PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS THE GRATED SURFACE PITS SHALL BE PROTECTED IN ACCORDANCE TO COUNCIL'S
- ENSURE ACCESS IS PROVIDED TO PROPOSED RAINWATER TANK FOR MAINTENANCE PURPOSES

STORMWATER DRAINAGE NOTES:

THE STORMWATER DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3:2021 "STORMWATER DRAINAGE" & AS/NZS 3500.3.2:1998 "STORMWATER DRAINAGE-ACCEPTABLE SOLUTIONS"

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE

REFERRED TO THE ENGINEER FOR APPROVAL

BOX COLORBOND OR ZINCALUME STEEL GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP UNO.

EAVES GUTTERS SHALL BE COLORBOND OR ZINCALUME STEEL AND HAVE A MINIMUM EFFECTIVE CROSS-SECTIONAL AREA (A_e) OF 9,800mm² UNO. MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500.

ALL DRAINAGE LINES SHALL BE SEWER GRADE UPVC PIPES, UNO.

ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, UNO.

FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

SYMBOLS & ABBREVIATIONS:

- $DP = \emptyset 100 \text{ OR } 100 \text{ x } 75 \text{ RECTANGULAR DOWN PIPE, UNO.}$ FO = Ø150 FLOOR OUTLET
- GSIP = GRATED SURFACE INLET PIT (NO LINTEL) ϕ 100 (c) = \varnothing 100 CHARGED LINE
- IP = Ø100 INSPECTION POINT SP = RAINWATER DOWNPIPE SPREADER
- EX DP = EXISTING DOWNPIPE
- RH & SP = RAINHEAD AND DOWNPIPE SPREADER RH & DP = RAINHEAD AND DOWNPIPE

NOT FOR CONSTRUCTION

- BG = BOX GUTTER TOW = TOW OF WALL RL
- GSIP = GRATED SURFACE INLET PIT NGL = NATURAL GROUND LEVEL

XXXX = PROPOSED FINISHED SURFACE LEVEL

R16.4m² = CATCHMENT AREA (WHERE R=ROOF, P=PAVED, L=LANDSCAPED. S = COMBINED SURFACE)

SITE SPECIFIC NOTES:

19,250

COUNCIL TREE

20,340

EAS.

М

†19,220

THE EXISTING DRAINAGE SYSTEM SHOWN ON THIS PLAN ARE INDICATIVE AND ARE BASED ON THE INFORMATION PROVIDED BY THE CLIENT. THE CONTRACTOR IS TO CARRYOUT INVESTIGATIONS PRIOR TO THE COMMENCEMENT OF WORKS AND DETERMINE THE EXACT LOCATION, SIZE & MATERIAL OF THE EXISTING DRAINAGE SYSTEMS SHOWN ON THESE PLANS. ALL INGROUND DRAINAGE PIPES MUST BE Φ100 MINIMUM.

COUNCIL TREE 20,770

- PORTIONS OF THE EXISTING DRAINAGE SYSTEMS BEING RETAINED AS SHOWN ON THESE PLANS INCLUDING DOWNPIPES, INGROUND DRAINAGE LINES ETC SERVICING THE EXISTING DWELLING ARE TO BE ASSESSED BY A PLUMBER AND REPLACED WITH NEW IF FOUND TO BE IN POOR WORKING CONDITION. REPLACEMENT OF THE EXISTING DRAINAGE SYSTEM IS TO BE GENERALLY IN ACCORDANCE WITH THESE PLANS;
- THE EXISTING ABSORPTION TRENCH LOCATION IS ASSUMED AND IS TO BE CONFIRMED BY A LICENSED PLUMBER TO BE IN GOOD WORKING ORDER PRIOR TO CONSTRUCTION DOCUMENTS. ANY VARIATIONS ARE TO BE NOTIFIED TO ENGINEER.



150 WIDE GRATED

NEIGHBOURING TREE

ASSUMED LOCATION OF EXISTING DRAINAGE LINE. ENSURE DRAINAGE

LINE IS Ø100 UPVC MIN.

EXACT LOCATION TO BE DETERMINED ON SITE BY THE

PLUMBER

ASSUMED LOCATION OF EXISTING

LINE IS Ø100 UPVC MIN.

PLUMBER

R24m²

150 WIDE GRATED 4150 WIDE GRATED

CONNECT TO EXISTING DRAINAGE

LINE AND MAKE GOOD. PROVIDE

CLEANING EYE AT JUNCTION.

EXACT LOCATION TO BE

DETERMINED ON SITE.

EXACT LOCATION TO BE

DETERMINED ON SITE BY THE

DRAINAGE LINE. ENSURE DRAINAGE

TG 21,070

METRES

FOR TREES TO BE REMOVED, RETAINED OR NEWLY PLANTED. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS EXTREME CARE SHALL BE

NOTATION:

NOTE:

PROPOSED DRAINAGE LINE

EXISTING DRAINAGE LINE

PIPE FLOW DIRECTION

ENSURE \$\phi 100 UPVC @ 1% MIN. UNO

DRAINAGE LINE IDENTIFICATION NUMBER.

TAKEN WHEN DOING WORK NEAR EXISTING PIT/STRUCTURES AND UNDERGROUND CABLES. LOCATION & DEPTH OF ALL UNDERGROUND CABLES & SERVICES

TO BE CONFIRMED PRIOR TO CONSTRUCTION. CONTACT 'DIAL BEFORE YOU DIG' ON 1100



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- CONCEPT DRAWINGS FOR

DEVELOPMENT APPLICATION

CLIENT: MATT & NAT DeGARIS

PROJECT: PROPOSED DEVELOPMENT AT 2 NEW STREET, EAST BALGOWLAH



DRAWING TITLE: GENERAL & SITE-SPECIFIC NOTES, GENERAL DRAINAGE PLAN

			DRAWN BY: NS	ENGI	ENGINEER: NS		
			DATE: 28/01/2025				
Α	28/01/2025	FOR COUNCIL APPROVAL - NOT FOR CONSTRUCTION	SCALE: AS SHOWN OF	N A1	SHEET No:		
ISSUE	DATE	REVISIONS:	JOB NO: 2410	94	CO1		

NEW DRAINAGE LINE TO

ABSORPTION TRENCH.

DETERMINED ON SITE.

EXACT LOCATION TO BE

DISCHARGE TO EXISTING

ASSUMED LOCATION OF EXISTING

DETERMINED ON SITE BY THE

PLUMBER. ABSORPTION TRENCH

GOOD WORKING ORDER PRIOR TO

EXISTING SWIMMING POOL

MUST BE CONFIRMED TO BE IN

CONSTRUCTION DOCUMENTS.

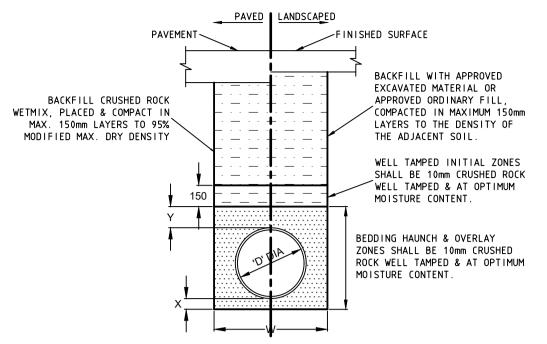
ABSORPTION TRENCH.

EXACT LOCATION TO BE

NEIGHBOURING TREE

NEIGHBOURING TREI



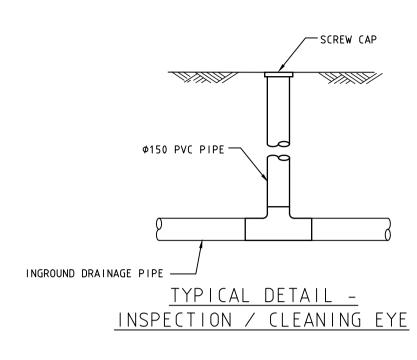


NOTE:

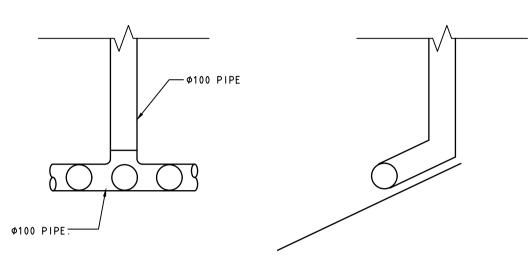
1. REFER TO PIPE LAYING SPECIFICATIONS
FOR DETAILS.

TYPICAL DETAIL - UPVC PIPE LAYING N.T.S

PIPE DIA 'D'	W	X MIN	Υ		
100-150	300	75	75		
225-300	600	75	75		



N.T.SCLEANING EYE TO BE PROVIDED AT START OF CHARGED LINES AND AT CRITICAL JUNCTIONS TO BUILDERS DETAIL

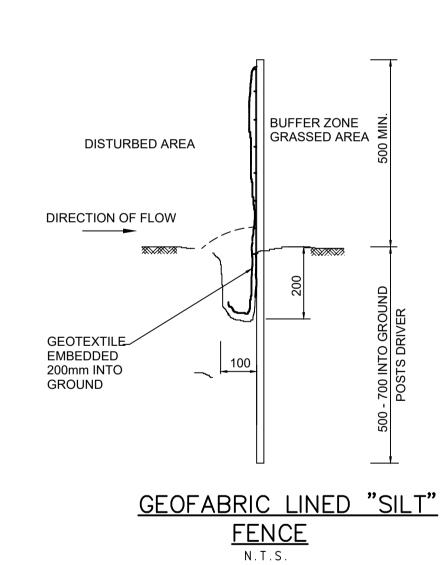


TYPICAL DETAIL - DOWNPIPE <u>SPREADER</u> N.T.S

JOB ADDRESS: 8 NELSON ROAD, LINDFIELD

A.R.I. IN YEARS: 20 TIME OF CONC. 5min

DRAINAGE CALCULATIONS														
L I N	IN - No.	LET - Type	AREA m^2	RUNOF COEF. "C"	INLET IMP AREA	DISC "Q" I/s	SIDE - Lin	LINE - Area	TOT. IMP. AREA	DESIGN "Q" I/s	DIA mm	PIPE GRADE %	NOM. CAP. I/s	REMARKS
1	1 2 3 4 5	DP DP DP DP	41.0 16.0 16.0 27.5 27.5	1.00 1.00 1.00 1.00 1.00	41.0 16.0 16.0 27.5 27.5	2.4 0.9 0.9 1.6 1.6	SP SP	27.0 27.0	41.0 84.0 127.0 154.5 182.0	2.4 4.9 7.3 8.9 10.5	100.0 100.0 100.0 100.0 100.0	1.0 1.0 1.5 2.0 2.5	6.7 6.7 8.2 9.5 10.6	ROOF AREA ROOF AREA ROOF AREA ROOF AREA ROOF AREA CONNECT TO LINE 3
2	1 2 3 4 5	DP DP DP DP	10.0 10.0 31.0 27.5 27.5	1.00 1.00 1.00 1.00 1.00	10.0 10.0 31.0 27.5 27.5	0.6 0.6 1.8 1.6 1.6			10.0 20.0 51.0 78.5 106.0	0.6 1.2 2.9 4.5 6.1	100.0 100.0 100.0 100.0 100.0	1.0 1.0 1.0 1.0 1.0	6.7 6.7 6.7 6.7 6.7	ROOF AREA ROOF AREA ROOF AREA ROOF AREA CONNECT TO LINE 3
3	1	LINE 1 + 2	288.0	1.00	288.0	16.6			288.0	16.6	150.0	1.0	19.8	LINE 1 + 2 ROOF AREA



NOT FOR CONSTRUCTION - CONCEPT DRAWINGS FOR DEVELOPMENT APPLICATION

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CLIENT: MATT & NAT DeGARIS

PROJECT: PROPOSED DEVELOPMENT AT 2 NEW STREET, EAST BALGOWLAH

APPROVED: **ADAM GILLETT** B.ENG (Hons), M.I.E. AUST.

DRAWING TITLE: DRAINAGE DETAILS & CALCULATIONS

			DRAWN BY: NS	ENG	INEER: NS		
			DATE: 28/01/2025	OATE: 28/01/2025			
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