LOT 80 DP 11784 12 INGLESIDE ROAD, INGLESIDE PROPOSED DWELLING

UPSTREAM FLOW MANAGEMENT AND ON-SITE WASTEWATER MANAGEMENT PLANS



EXISITNG STORMWATER ARRANGMENT

THESE PLANS SHOULD BE READ IN CONJUNCTION WITH PROJECT'S STORWATER INVESTIGATIONS REPORT MANAGEMENT BY SOUTHEAST ENGINEERING & ENVIRONMENTAL.

12 INGLESIDE ROAD, INGLESIDE (THE SITE) CURRENTLY RECEIVES RUNOFF FROM THE UPSTREAM CATCHMEN VIA A COUNCIL PIPE DISCHARGING TO THE SOUTHWEST CORNER OF THE LOT AND OVERLAND FLOWS ALONG THE FRONTAGE OF THE SITE.

THE PIPE RUNNING UNDER INGLESIDE ROAD IS FED FROM A SAG OPPOSITE THE SITE ENTRANCE. THERE IS NO EXISTING EASEMENT OR FORMAL STORMWATER INFRASTRUCTURE ON THE SITE.

2D HYDRAULIC MODELING SHOWS THAT UPSTREAM CATCHMENT RUNOFF FOR THE 1% AEP WILL ENTER BOTH THE SITE AND NEIGHBOURING PROPERTIES.

PROPOSED ARRANGEMENT TO MANAGE UPSTREAM CATCHMENT RUNOFF

AS PER PITTWATER COUNCILS DCP (B5.12 STORMWATER DRAINAGE SYSTEMS AND NATURAL WATERCOURSES) THE UPSTREAM RUNOFF INTO THE SITE IS TO BE MANAGED WITH A FORMALISED OVERLAND FLOWPATH THROUGH THE SITE TO MIMIC THE EXISTING RUNOFF REGIME.

UPSTREAM FLOWS WILL BE INTERCEPTED AND CONVEYED VIA A FORMALISED OPEN CHANNEL THROUGH THE SITE, SIZED FOR THE 1% AEP PEAK FLOW ENTERING THE SITE.

ALL FLOWS FROM THE SITE ARE TO BE DISPERSED WITH LEVEL SPREADER AT LOWER END OF THE SITE

THIS CHANNEL SHALL BE MAINTAINED BY THE OWNER INTO PERPETUITY

PROPOSED ON-SITE WASTEWATER MANAGEMENT

THESE PLANS SHOULD BE READ IN CONJUNCTION WITH PROJECT'S ON-SITE SEWERAGE MANAGEMENT REPORT BY SOUTHEAST ENGINEERING & ENVIRONMENTAL.

TITLE INDEX

DWG No.	DESCRIPTION
408-C01	TITLE SHEET
408-C02	GENERAL ARRANGEMENT (1 OF 2)
408-C03	GENERAL ARRANGEMENT (2 OF 2)
408-C04	CHANNEL LONGITUDINAL SECTION
408-C05	CHANNEL CROSS SECTIONS
408-C06	SCA STANDARD DRAWING 10C - PRESSURE DOSED BED
408-C07	SEDIMENT AND EROSION CONTROL PLAN

LOCALITY PLAN



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PROJECT: 12 Ingleside Road, Ingleside: Upstream Flow Management On-Site Wastewater Management & Erosion Control Plans.

Mauricio Sabena

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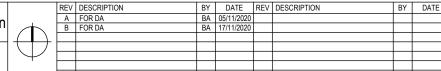
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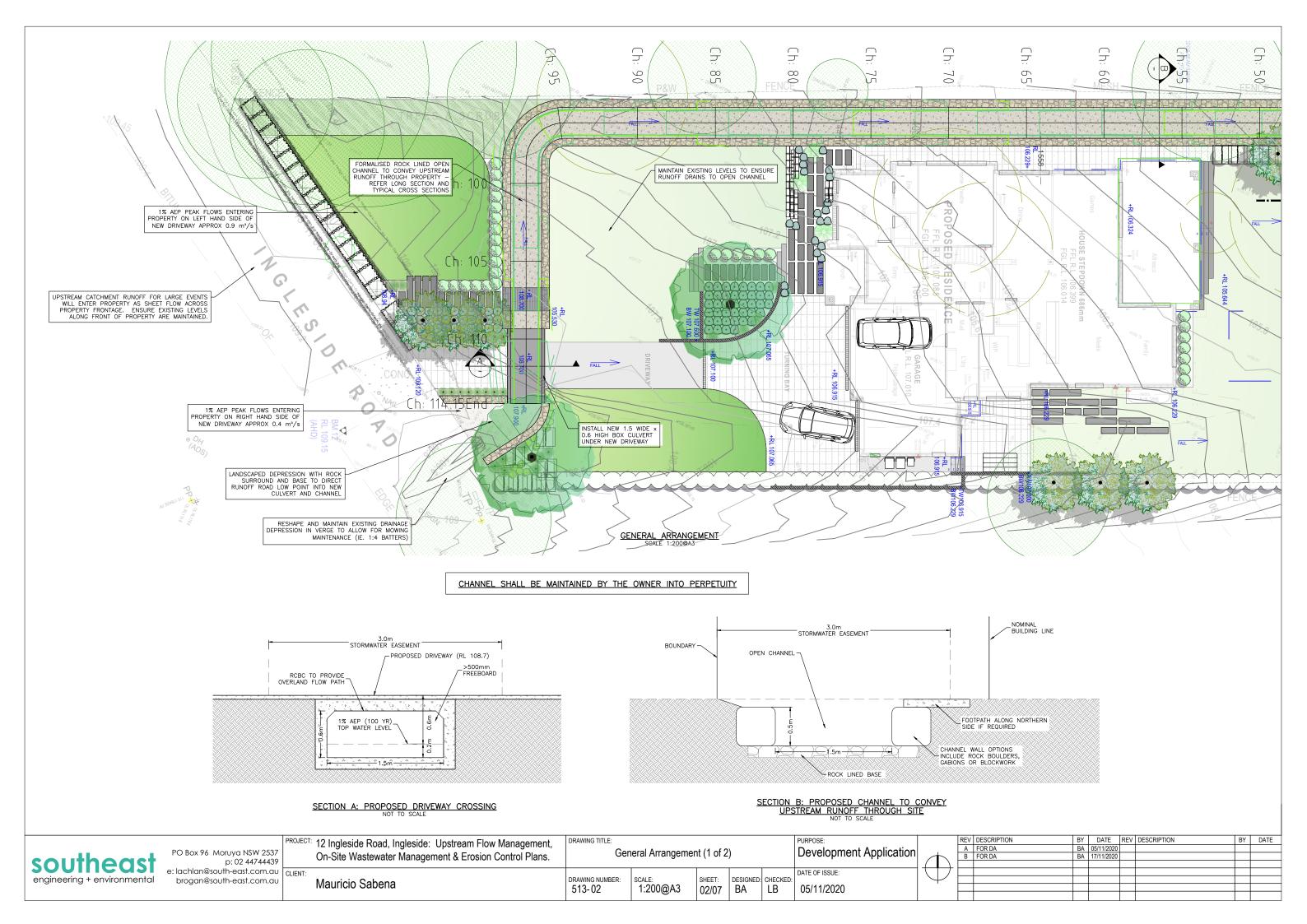
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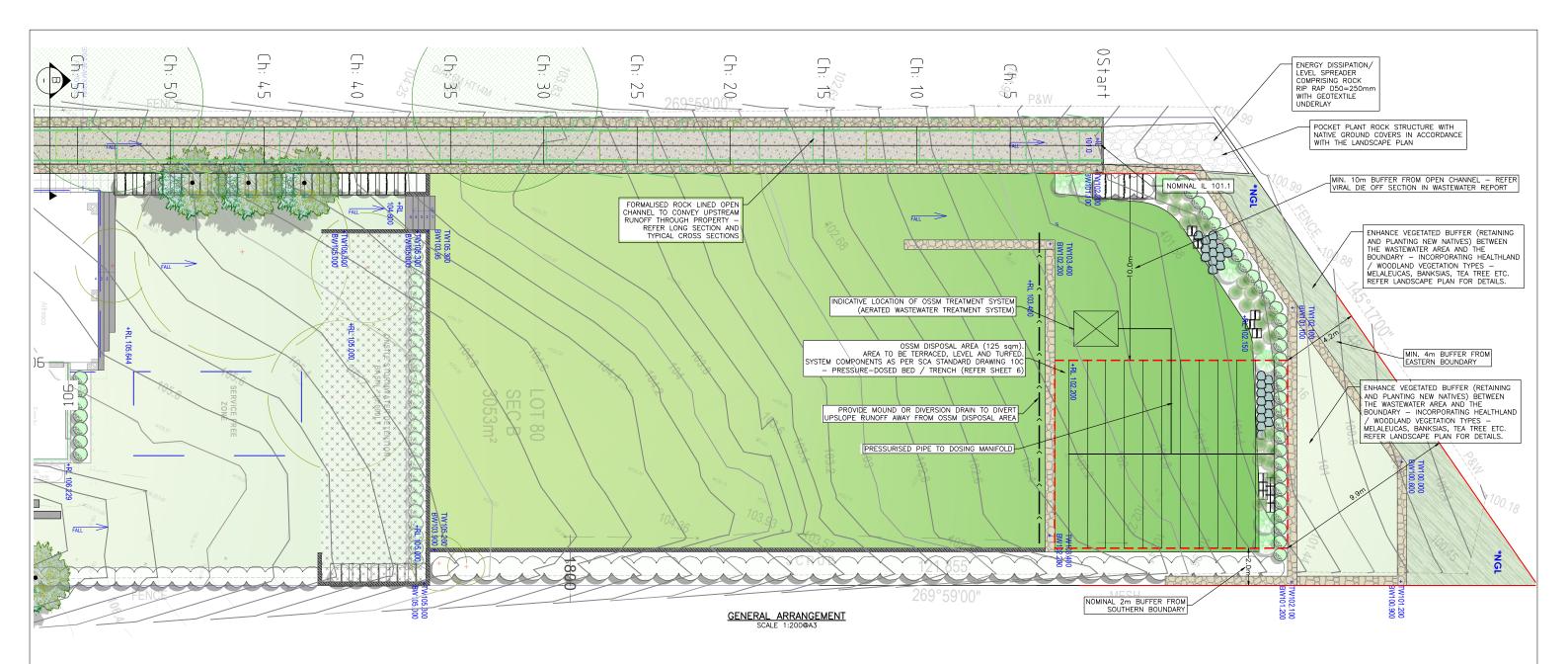
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GENERAL NOTES:

- UNDERTAKE A DAIL BEFORE YOU DIG CHECK BEFORE COMMENCING WORKS.
- HAND LOCATE ALL SERVICES IN PROXIMITY OF EXCAVATION AREAS.

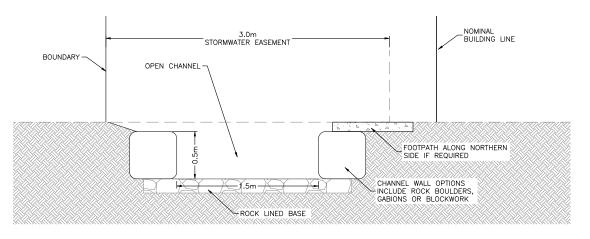
 ON SITE WASTEWATER SYSTEM CONSTRUCTION & ASSOCIATED PLUMBING TO BE UNDERTAKEN IN ACCORDANCE WITH:
- COUNCILS ON SITE SEWAGE MANAGEMENT CODE OF PRACTICE
- AS 1547:2012
- AS/NZS 3500.1:2003
- ENSURE DISTRIBUTION LINES WITHIN BEDS ARE LEVEL, CHECK WITH LASER
- LEVEL OR DUMPY BEFORE BACKFILLING.
 TEST DISTRIBUTION LINES PRIOR TO BACKFILLING BEDS TO ENSURE DOSING IS WORKING EFFECTIVELY AND EVEN FLOW IS ACHIEVED.



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVTION GUIDE LINES AND STANDARDS

NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS

CHANNEL SHALL BE MAINTAINED BY THE OWNER INTO PERPETUITY



SECTION B: PROPOSED CHANNEL TO CONVEY UPSTREAM RUNOFF THROUGH SITE NOT TO SCALE



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PROJECT: 12 Ingleside Road, Ingleside: Upstream Flow Management, On-Site Wastewater Management & Erosion Control Plans.

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DRAWING TITLE: General Arrangement (2 of 2) DRAWING NUMBER: SHEET:

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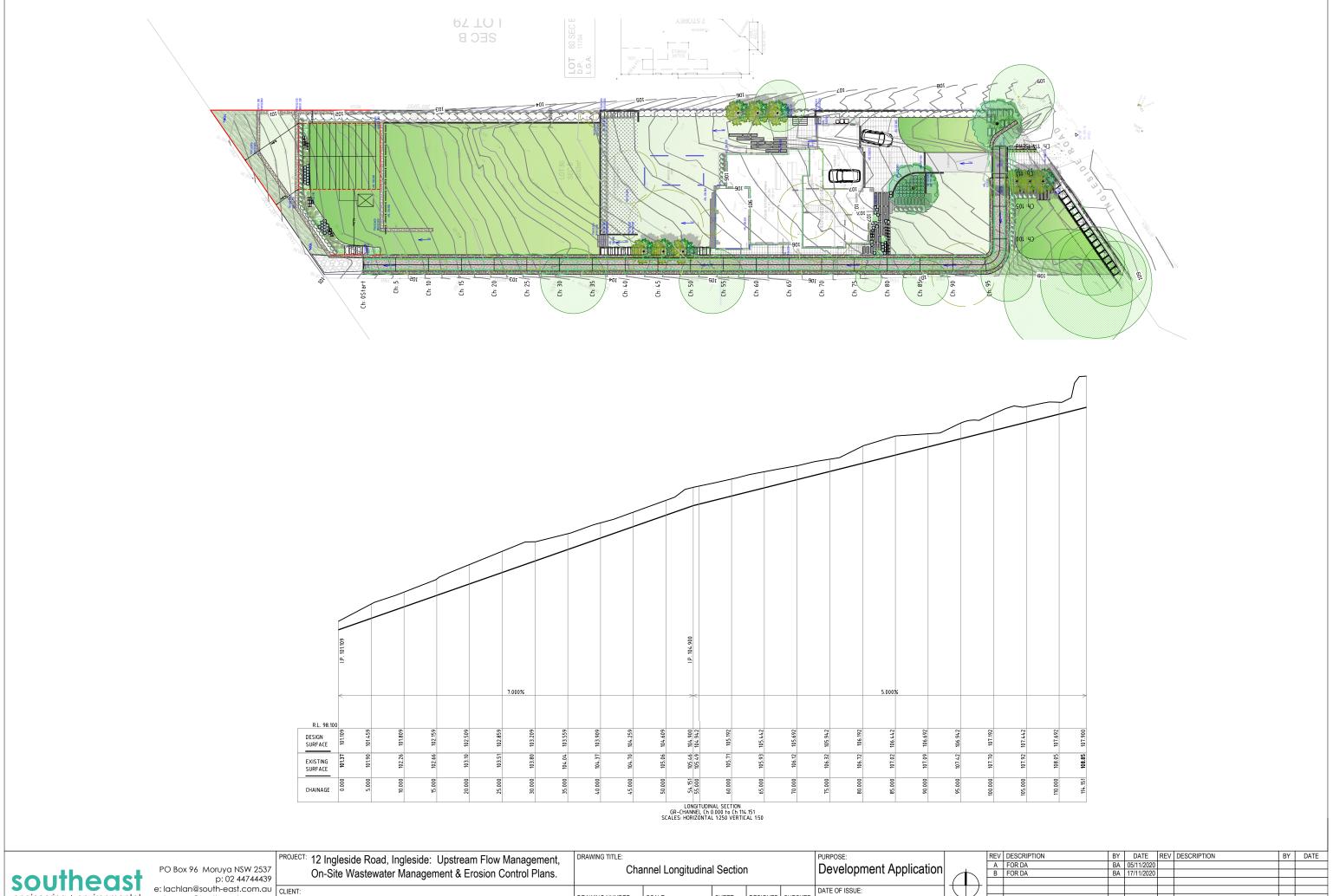
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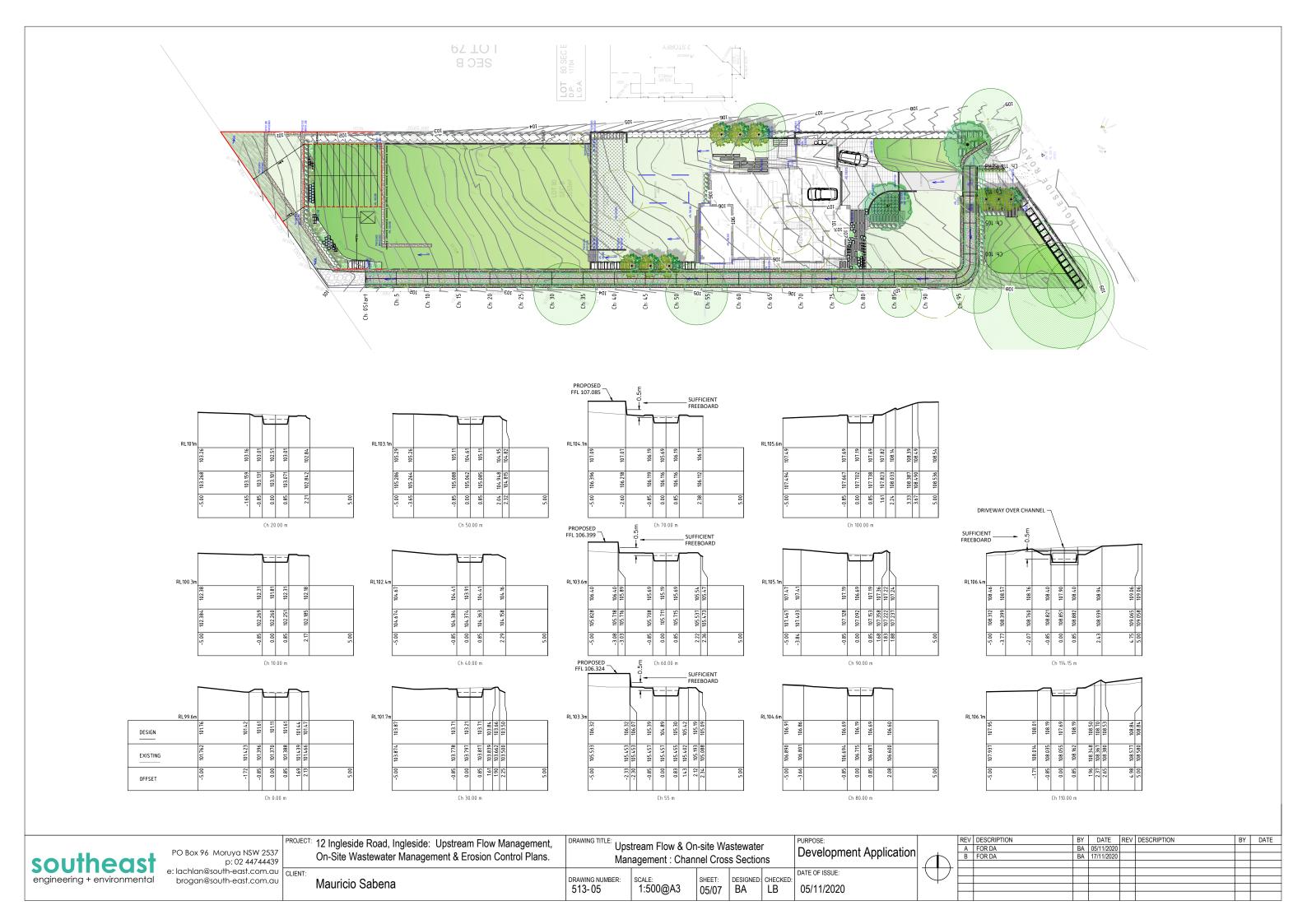
engineering + environmental

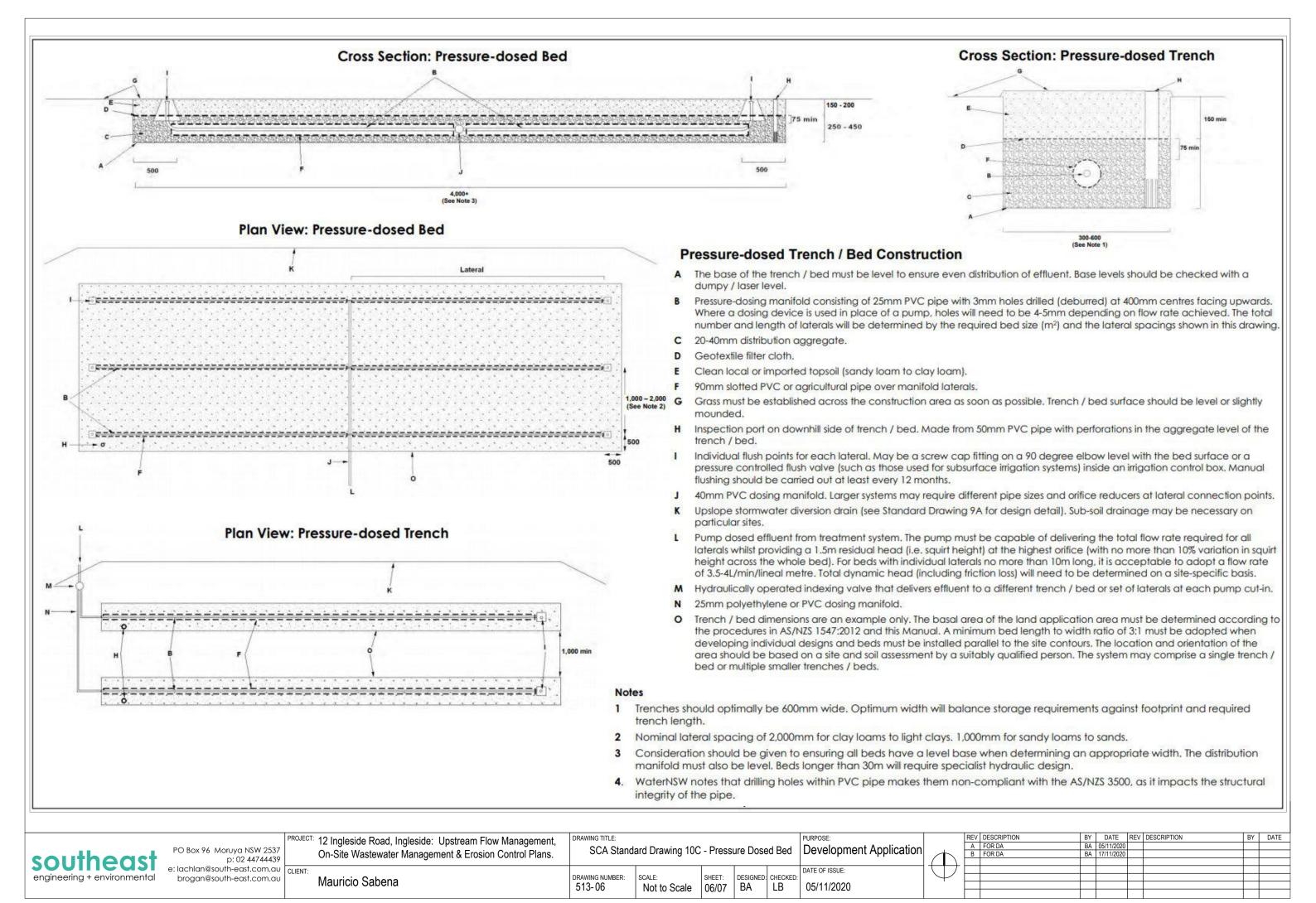
brogan@south-east.com.au

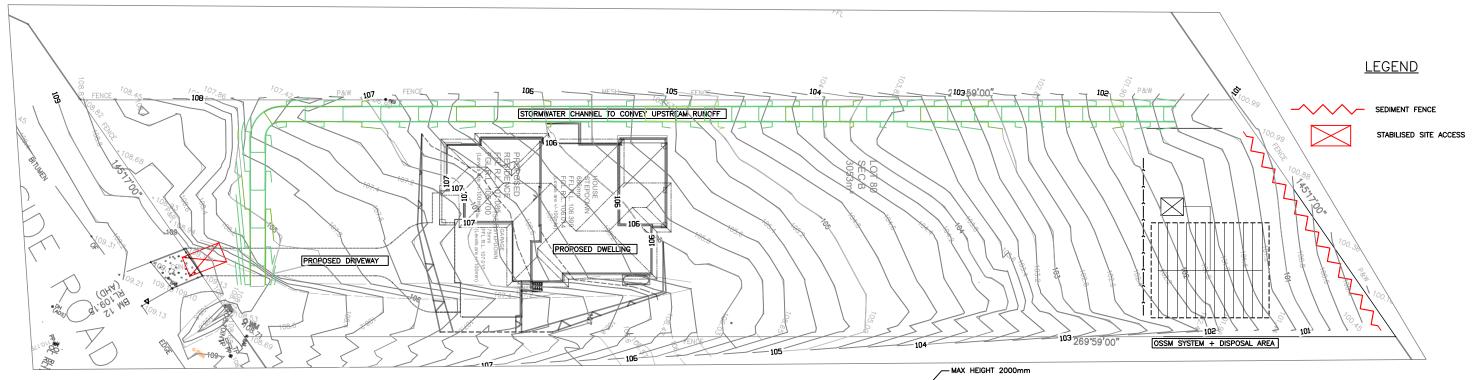
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THE FOLLOWING SEDIMENT AND EROSION CONTROL PLAN (SWMP) HAS BEEN DEVELOPED IN GENERAL ACCORDANCE WITH LANDCOM (2004) - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, OTHERWISE KNOWN AS "THE BLUE BOOK".

SITE ESTABLISHMENT

PRIOR TO THE COMMENCEMENT OF EARTHWORKS ON THE SITE THE FOLLOWING SHALL BE UNDERTAKEN AS A MINIMUM:

- ERECT SAFETY FENCING WITH SIGNAGE CLEARLY INDICATING THAT THE SITE IS A CONSTRUCTION ZONE AND ACCESS IS ERECT SAFETY FENCING WITH SIGNAGE CLEARLY INDICATING THAT THE SITE IS A CONSTRUCTION ZONE AND ACCESS IS RESTRICTED AS DEEMED NECESSARY.

 ERECT CLEARLY VISIBLE BARRIER FENCING AT LOCATIONS SHOWN OR IF NOT SHOWN AT THE DISCRETION OF THE SITE SUPERINTENDENT TO ENSURE TRAFFIC IS CONTROLLED AND TO PROHIBIT UNNECESSARY SITE DISTURBANCE. INSTALL STABILISED SITE ACCESS IN ACCORDANCE WITH DRAWING SD6-14 AT EACH SITE ACCESS POINT TO PREVENT CONSTRUCTION EQUIPMENT FROM CARRYING SEDIMENT OFF THE SITE ONTO SURROUNDING ROADS.

 INSTALL SEDIMENT AND EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CONSTRUCTION DETAILS SPECIFIED IN THIS DRAWING SET AND/OR THE REQUIREMENTS OF THE 'BLUE BOOK'.

- CONSTRUCTION

 5. TOPSOIL, FROM ALL AREAS TO BE DISTURBED, SHALL BE STRIPPED PRIOR TO CONSTRUCTION OF ANY WORKS AND STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IF SUITABLE. TOPSOIL SHALL BE STOCKPILED OUTSIDE OF MAJOR FLOW AREAS.

 6. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.

 7. INLET FILTERS WILL BE INSTALLED WHERE SHOWN TO PREVENT WATER FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. IF THE LOCATION OF INLET FILTERS ARE NOT SHOWN ON THE PLAN THEIR LOCATION SHALL BE AT THE DISCRETION OF THE SUPERINTENDENT.

STOCKPILES

- STOCKPILES

 8. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED NO CLOSER THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

 9. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 10 DAYS THEN THEY SHALL BE STABILISED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.

 10. STOCKPILES SHALL BE IN WINDROWS NO HIGHER THAN 2m HIGH AND SHALL HAVE BATTER SLOPES NO STEEPER THAN 1 IN 2. AN EARTH BANK SHALL BE INSTALLED ON THE UPSLOPE SIDE AND SEDIMENT FENCING SHALL BE INSTALLED ALONG THE LENGTH OF THE DOWNSLOPE SIDE ON ANY STOCKPILE.

- MAINTENANCE

 11. ALL DEDICATED SEDIMENT STORAGE ZONES WITHIN TRAPS SHALL BE CLEANED WHEN A MAXIMUM OF 60% FULL OF SOLID MATERIALS (INCLUDING DURING THE MAINTENANCE PERIOD) AND DISPOSED OF IN A MANNER THAT PREVENTS FURTHER POLLUTION OF THE SITE.
- 12. TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE
- PROTECTING, ARE COMPLETELY REHABILITATED.

 THE CONTRACTOR WILL INSPECT THE SITE AT LEAST WEEKLY OR AFTER ANY STORM EVENT AND WILL:

 ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS;

 REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS (E.G. LANDS CLOSER THAN FIVE METRES FROM
- REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS (E.G. LANDS CLOSER THAN FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY DRAINS, WATERWAYS AND PAVED AREAS);
 REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE;
 ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE;
 CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS REQUIRED;
 MAINTAIN EROSION AND SEDIMENT CONTROL WEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED; AND
 REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

CLIENT

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STABILISE STOCKPILE SURFACE IF STOCKPILE TO BE LEFT INPLACE FOR LONGER THAN ONE MONTH DRAIN TO DIVERT RUNON AROUND STOCKPILE

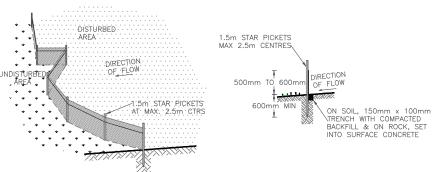
TEMPORARY STOCKPILE DETAIL

STOCKPILE NOTES

STOCKPILE MATERIAL IN A MANNER THAT ALLOWS FOR PRACTICAL REUSE/DISPOSAL PURPOSE

WHERE USED, ENSURE THEY ARE:

-PLACED AWAY FROM CONCENTRATED FLOW
-HOMOGENOUS IN TYPE OF MATERIAL STOCK



SEDIMENT CONTROL FENCE DETAIL

SEDIMENT FENCE CONSTRUCTION NOTES

- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

 DRIVE 1500mm LONG STAR PICKETS INTO THE GROUND AT 2500mm INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. FIX SELF—SUPPORTING GOETEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.

 JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

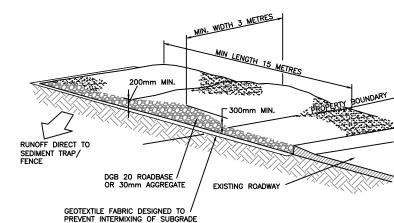
 BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SHEET:

07/07

DESIGNED

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GEOTEXTILE FABRIC DESIGNED TO / PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE

GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-40) OF 2500N

STABILISED SITE ACCESS

STABILISED SITE ACCESS NOTES

- STRIP TOPSOIL, LEVEL THE DESIGNATED AREA AND COMPACT SUBGRADE COVER THE AREA WITH NEEDLE—PUNCHED GEOTEXTILE.
 CONSTRUCT A 200mm THIKC PAD OVER THE GEOTECTILE USING ROAD BASE OR 30mm
- AGGREGATE.
 ENSURE THE STRUCTURE IA AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND

ENSURE THE STRUCTURE IA AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3M WIDE.

WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN A THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

WHERE OVERLAND FLOW PATH IS NOMINATED ENSURE STABILISED ACCESS FORMS A DEFINED CHANNEL TO CONTAIN FLOWS.



PO Box 96 Moruya NSW 2537 p: 02 44744439 e: lachlan@south-east.com.au brogan@south-east.com.au PROJECT: 12 Ingleside Road, Ingleside: Upstream Flow Management, On-Site Wastewater Management & Erosion Control Plans.

DRAWING TITLE: Sediment and Erosion Control Plan

SCALE:

Not to scale

DRAWING NUMBER

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