

E.1 Emissions to Atmosphere

During particularly warm/dry weather, dust generation is suppressed by application of water spray from a mobile tanker on-site.

E.2 Emissions to Surface Waters

There are no new channels to allow surface water to flow into the existing river beds.

Refer to *Drawing No.20 'Overall Channel Drainage and Drawing No.21 'Sundry Details'*. The latter drawing gives detail of the following protection measures:

- 'Details of Soiled Water Containment Measures' – to R. Peastinagh and to R. Martin.
- 'Proposed Filling of Existing Drain' – this refers to the low 'channel' and to the head of R. Martin.
- 'Bund at Southern End' – ensuring runoff at the southern end goes to soiled water containment.
- 'New Drainage Ditch Linking to Existing Stream (R. Peastinagh) beside N20' – this is the roadside channel above which will have soiled water containment measure.

E.3 Emissions to Sewer

There are no emissions to the existing sewage system from the site.

E.4 Emissions to Groundwater

Only the following inert materials refer to the European Waste Catalogue and Hazardous Waste List, January 2002, is accepted on the site:

- **17 05 04 Soil and Stone**
- **17 01 07 Mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06**
- **No other waste types are permitted** to be deposited at this facility.

All materials are subject to inspection procedures before being deposited on-site; refer E.4 (2) *Operating Instructions & Procedures in Respect to Waste Control*.

Materials listed in the Dangerous Substance List I, List II of Annex of Council Directive 80/68/EEC of December 1979, are not included in fill material to the site.

E.5 Noise Emissions

Noise levels emanating from the proposed development when measured at the site boundaries do not exceed 55 dBa (15 minute L_{eq}) between the hours of 08.00 am and 06.00 pm Monday to Friday and between the hours of 08.00 am and 02.00 pm on Saturdays. Noise does not exceed 45 dBa (15 minute L_{eq}) at any other time.

Construction activities shall be carried out such that no noise nuisance is caused to any nearby residents.

The permit holder has ensured that hedgerows and mature trees are retained.

Noise from construction activities are as follows:

- Transport to and from the site
- Machinery operating within the site
- Both the above are truck and operational vehicle noises. These levels do not exceed the above stated 55 dBa inclusive of the 5 dBa penalty for tone and impulse.

E.6 Environmental Nuisances

Bird Control

- Not applicable because the fill is solely soil and rock.

Dust Control

- All operations on-site are carried out in such a manner as to ensure that no odour, dust or noise nuisance occurs beyond the site boundary because of such operations.
- Dust deposition arising out of construction activities do not exceed $250\text{mg}/\text{m}^3/\text{day}$ at the site boundary averaged over 30 days.
- The permit holder takes adequate steps to prevent dust generation in dry weather periods. The permit holder sprays the current working area with clean water to minimise dust generation. The access road to the site is also sprayed during dry weather.

Fire Control

- The permit holder ensures that no waste shall be burned on the site.

Litter Control

- The permit holder inspects the site perimeter twice weekly for the presence of litter and removes all litter from the site and its environs without delay. A record is maintained of inspections and any action taken as a result of these inspections; refer to E.6 (2) *Register of Site Perimeter Inspection*.

Traffic Control

- The entrance is designed and roadside boundaries altered to provide sight distance of 120 metres in both directions at a point 4.5 metres back from the edge of the public road. Refer to *Drawing No. 22 'Entry Detail'*.
- The number of vehicular movements to and from the site is restricted to 30 vehicular movements per day.
- A wheel washing facility is provided and used 20 metres before the main wheel wash and at the entrance of the site to clean vehicles leaving the site.
- The public roads in the vicinity of the site are kept clear of all debris and mud from this development at all times.
- Traffic signs are erected and in accordance with the Traffic Signs Manual (DOE) all are to the satisfaction of the Cork County Council Area Engineer.

Vermin Control

- Not applicable because the fill is solely soil and rock.

Road Cleansing

- The permit holder ensures that a mechanical road sweeper is available while the site is in operation. Any material deposited onto the roadway is removed without delay. The permit holder is responsible for the removal of any debris on the approach road for a distance of 300 meters either side of the main entrance.

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TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	SW 1
Source of Emission:	Rainfall Runoff
Location :	Throughout Site
Grid Ref. (10 digit, 5E,5N):	W 58406 88917
Name of receiving waters:	Peastinhagh River
Flow rate in receiving waters:	<u> </u> approaching zero <u> </u> m ³ .sec ⁻¹ Dry Weather Flow <u> </u> approaching zero <u> </u> m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	<u> </u> kg/day

Emission Details:

(i) Volume to be emitted		Rainfall Dependent	
Normal/day	<u> </u> m ³	Maximum/day	<u> </u> m ³
Maximum rate/hour	<u> </u> m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	<u> </u> min/hr <u> </u> hr/day <u> </u> day/yr
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TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	SW 2
Source of Emission:	Rainfall Runoff
Location :	Throughout Site
Grid Ref. (10 digit, 5E,5N):	W 57972 88445
Name of receiving waters:	River Martin
Flow rate in receiving waters:	<u> </u> approaching zero <u> </u> m ³ .sec ⁻¹ Dry Weather Flow <u> </u> approaching zero <u> </u> m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	<u> </u> kg/day

Emission Details:

(i) Volume to be emitted		Rainfall Dependent	
Normal/day	<u> </u> m ³	Maximum/day	<u> </u> m ³
Maximum rate/hour	<u> </u> m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	<u> </u> min/hr <u> </u> hr/day <u> </u> day/yr
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WASTE Application Form

TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number: SW1

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
Suspended Solids		≈ 250		≈ 1000		≈ 12.5		≈ 50	95

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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number: SW2

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
Suspended Solids		≈ 250		≈ 1000		≈ 12.5		≈ 50	95

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OPERATING INSTRUCTIONS AND PROCEDURES IN RESPECT TO WASTE CONTROL

- 1** Site supervisor to inspect each load on arrival at site.
Should load contain material not authorised he is not to permit driver to deposit on site and he is to instruct driver to exit the site.
- 2** Site supervisor to inspect that the drivers paperwork is in order.
If not in order he is to require paperwork be correct before accepting the load.
- 3** Site supervisor to inspect that the drivers truck permit identification markings are in order.
If not in order he is to require identification be in place before accepting the load.
- 4** Site supervisor is to ensure he obtains all of the information required for filling out Template 3 record. This includes Source , Description , EWC Code , Tonnage or m3 , Destination in Landfill , Waste Collector , Vehicle No , Permit No , Vehicle Reg No, Name of Who Checked Load at this site, Initial of Supervisor.
- 5** Upon completion of clearance of material , paperwork, truck permit marking and obtaining all aforesaid details the site supervisor is to direct the driver where to go to and where to deposit his material.
- 6** Upon depositing the material the site supervisor is to ensure that the truck exits the site via the truck wash. Therein he is to ensure the truck is adequately washed prior to re entry onto the public road.
- 7** The site supervisor is to ensure the public road condition throughout the day for cleanliness. He is to ensure that it is cleaned if required.
- 8** Site supervisor is to ensure completion of the record for each load in the Template 3 Record Book daily.

ENSURE THAT ALL PEOPLE INVOLVED IN WASTE CONTROL ARE FAMILIAR WITH THE ABOVE PROCEDURE.



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Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure ¹ dBA at reference distance	Octave bands (Hz) Sound Pressure ¹ Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission	
				31.5	63	125	250	500	1K	2K	4K			8K
Truck	Mobile	Not Applicable	50-55 @ 30m											
Backacter	Mobile	Not Applicable	50-55 @ 30m											
Dozer	Mobile	Not Applicable	50-55 @ 30m											

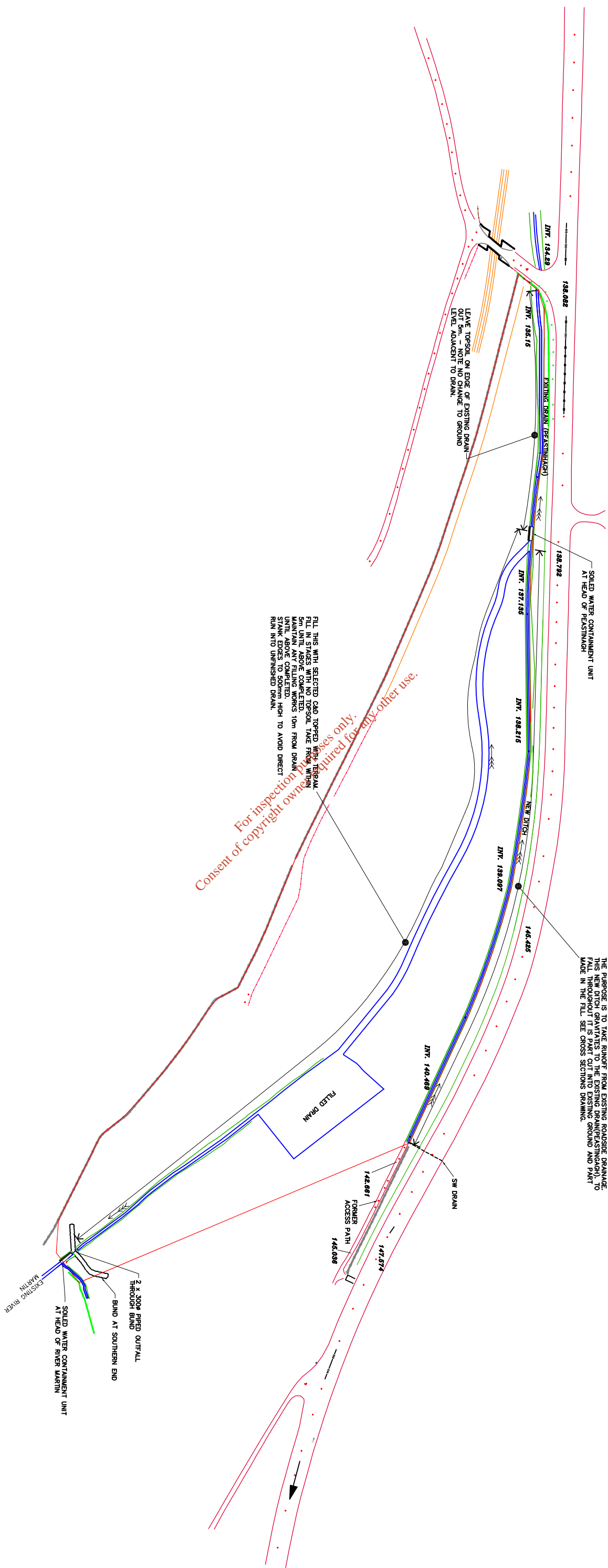
1. For items of plant sound power levels may be used.

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Template 7 Condition 6.5: Register of Site Perimeter Inspection

Date of Perimeter Inspection	Name of Person to Carry Out Inspection	Observations of Inspection	Actions Taken	Signature of Person who Carried Out Inspection

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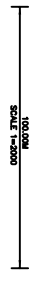
1	FOR PPC APPLICATION	12/01/09
0	INITIAL ISSUE	18/12/08
NO	REVISION	DATE

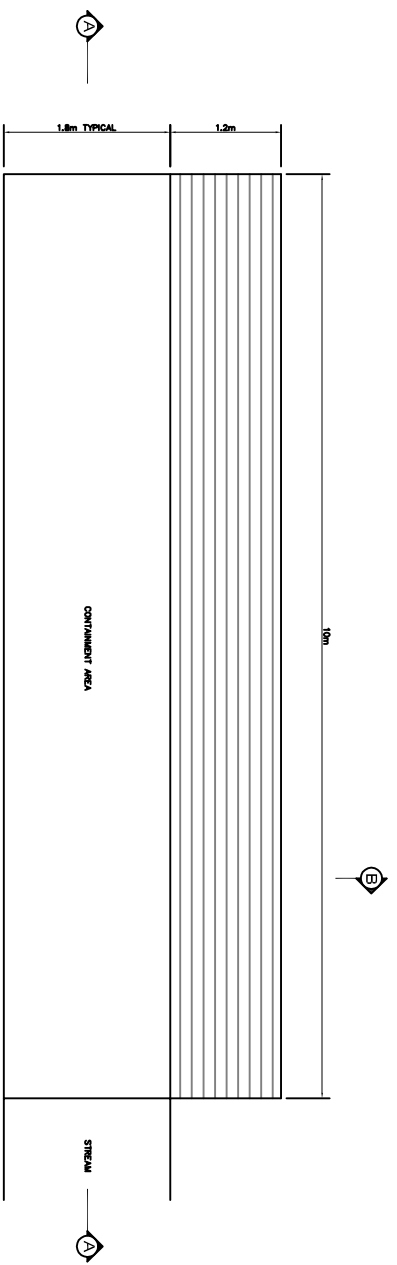
client MALLOW CONTRACTS LTD.
 project APPLICATION FOR WASTE MANAGEMENT PERMIT
 drawing OVERALL CHANNEL DRAINAGE

CONSULTING ENGINEERS

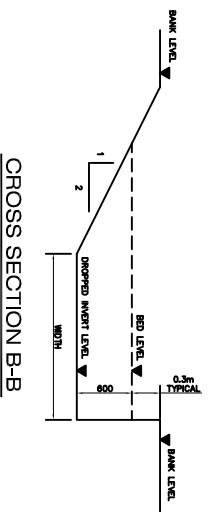
mescal & associates

Enterprise House,
 Centre Park Road, Cork, Ireland.
 tel 021-4314388
 fax 021-4314369
 scale As Shown
 date DECEMBER 2008
 job no
 dfg no 20





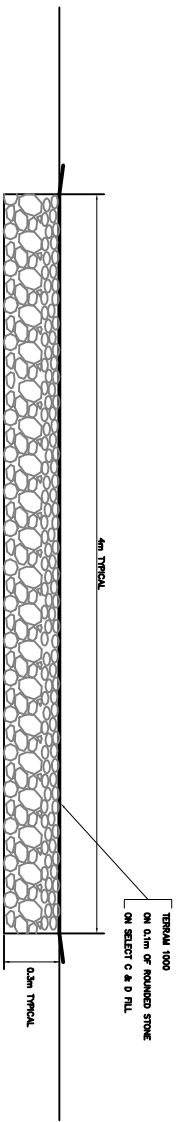
LONG SECTION A-A



CROSS SECTION B-B

- NOTE:-
- SEDIMENT MATERIAL SCOURED OUT AND REPOSITED IN FILL AREA.
 - EXCAVATION AT INTERVALS.
 - 1 No. AT OUTFALL TO RIVER QUANTIL.
 - 1 No. AT OUTFALL TO RIVER PEASTINGGAGH.

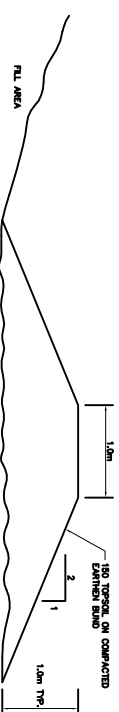
DETAILS OF SOILED WATER CONTAINMENT MEASURES NIS



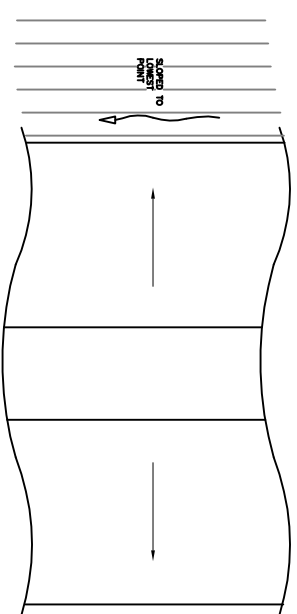
NOTE:- "POUR" AT CENTRE POINT SHOWN PART YEAR, PART YEAR 3 TO BE TREATED AS ABOVE OVER WIDTH OF "POUR".

PROPOSED FILLING OF EXISTING DRAIN NIS

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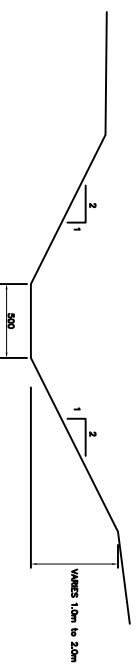


SECTION



PLAN

BUND AT SOUTHERN END NIS



NEW DRAINAGE DITCH LINKING TO EXISTING STREAM (HEAD OF PEASTINGGAGH RIVER) BESIDE N20 NIS

NO	REVISION	DATE
3	FOR RFP APPLICATION	12/01/09
2	MINOR CLARIFICATIONS TO DIMENSIONS	14/12/08
1	NEW DITCH BESIDE N20 SHOWN	09/11/08
0	INITIAL ISSUE	19/10/08

client	MALLOW CONTRACTS LTD.
project	APPLICATION OF WASTE MANAGEMENT PERMIT
drawing	SANITARY DETAILS

CONSULTING ENGINEERS

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As Shown

scale

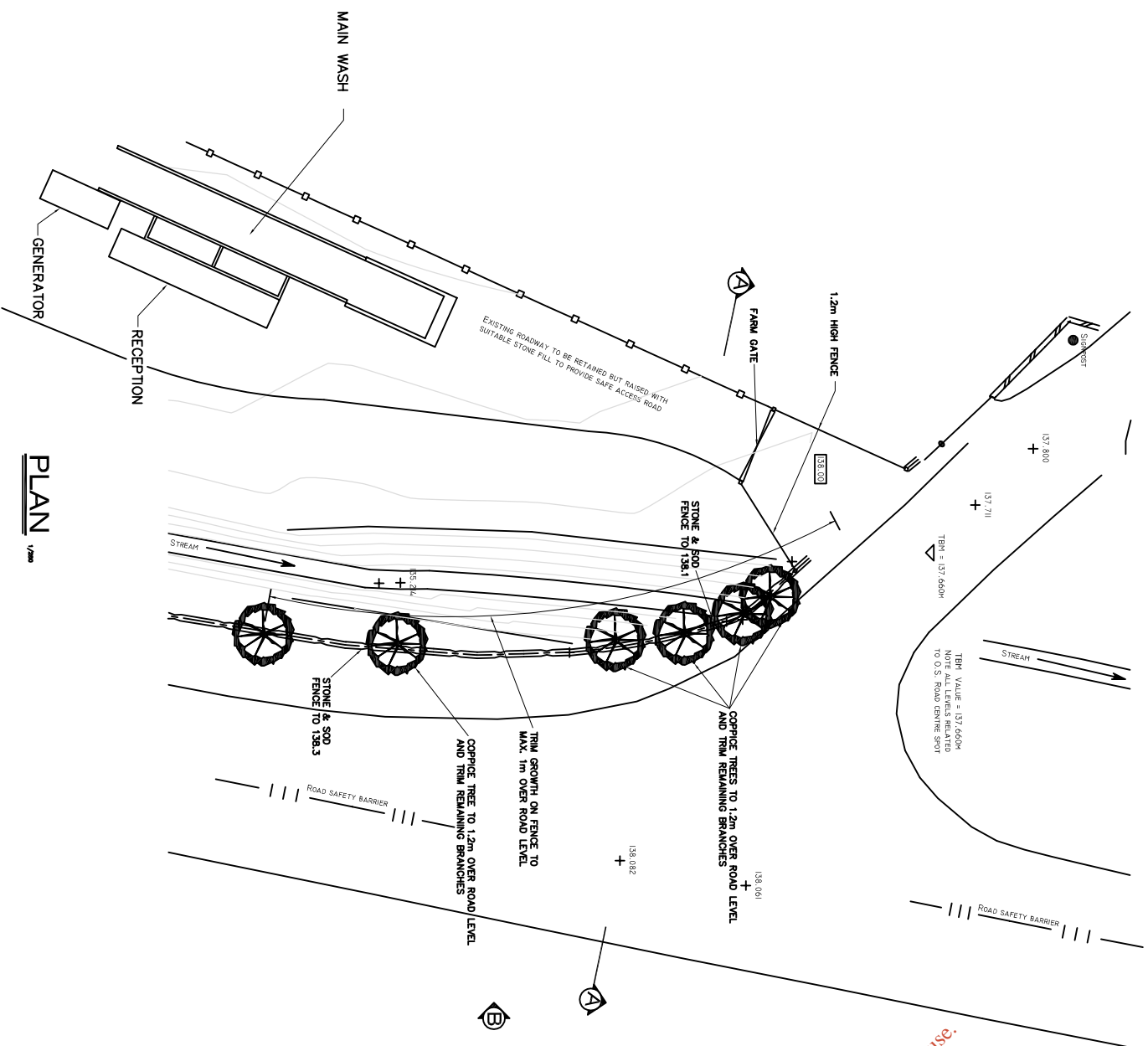
date

job no

drwg no

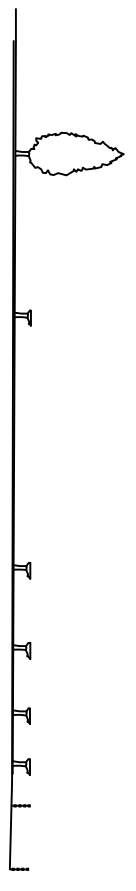
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OCTOBER 2008

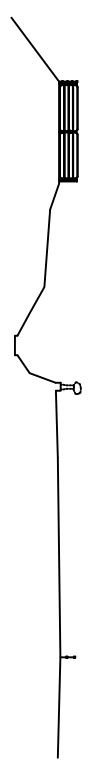


PLAN
1:200

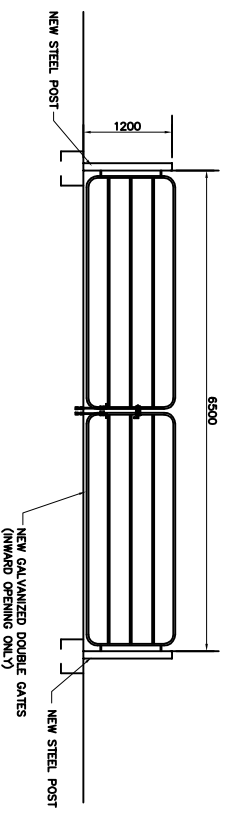
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ELEVATION B
1:200



SECTION A-A
1:200



FARM GATE
1:200

NO	REVISION	DATE
2	FOR PFC APPLICATION	02/11/08
1	WHEEL WASH AND OUTER ARMO SHOWN	14/12/06
0	FOR PLANNING PERMISSION	25/09/06

client	MALLOW CONTRACTORS LTD.
project	APPLICATION FOR PLANNING PERMISSION AT USHAWD & BULLHOLLOW, MOUNTAINBERRY
drawing	ENTRY DETAIL - PLAN, SECTION & ELEVATION

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As Shown August 2008

job no: 22
drg no: 22