

The following have been identified as significant environmental aspects for the site:
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 All Environmental aspects shall be managed with protection measures outlined on this plan.

SITE EMP A1 PLAN (1) - TYPES AND LOCATIONS OF ENVIRONMENTAL PROTECTION MEASURES

Project Name:

Date and Revision:

Locality and Melway Ref:

Management	
* 1. Responsibilities: <ul style="list-style-type: none"> Consulting Engineer: Civil Contractor Emergency Contacts with mobile : 1: 2: 	4. Staging of Works:
* 2. Communication of Site EMP Requirements: <ul style="list-style-type: none"> Induction of all persons working on site regarding requirements as set out on the EMP. EMP to be displayed in visible location within site compound, e.g. on walls of site sheds/office. 	5. Informing Residents:
* 3. Inspections and Maintenance: <ul style="list-style-type: none"> Two inspections per week. Inspect prior to and after storm events and/or heavy rain. Maintain as required with all rectification to be addressed within 12 - hours of incident /report. 	6. Associated documents:

Noise Risk: Significant/Med/Low		
Requirement: EPA Victoria and Council requirements must be adhered to in relation to the level of noise and working hours, to ensure that residents and other applicable neighbours to the site are not disturbed unreasonably. The generation of noise must be minimised.		
* 7. Working hours: 7.00 am to 6.00 pm Mon-Fri 7.00 am to 1.00 pm Sat	* 8. Noise Minimization Methods: <ul style="list-style-type: none"> Maintain working hours Restrict use of noisy equipment and processes Follow EPA Noise Control Guidelines Publication 1254 All vehicle movements to and from site to be during working hours 	9. Other:

Dust Risk: Significant/Med/Low	
Requirement: Dust generation must be minimized to ensure there is no health risk or loss of amenity.	
10. Minimising Dust Generation: <ul style="list-style-type: none"> Avoid stripping large areas when not required. Strip only where required and keep ground moist. 	* 12. Contingencies: <ul style="list-style-type: none"> If high wind is expected while large areas of the site are stripped, water spray in order to establish a thick crust over un-vegetated land. Also monitor dryness of exposed earth. Should ground dry out significantly consider water spraying or cover area with mulch or matting. Note: If a hose is used for water spraying, the hose is to be fitted with a large trigger nozzle. Check water restrictions with local authority for guidelines.
11. Dust Suppression: Use a water cart as conditions require.	13. Other

Erosion and Sediment Risk: Significant/Med/Low	
Requirement: Erosion and Sediment must be managed in accordance with current best practice environmental management practices to prevent sediment laden water from entering any drainage system, natural waterway or adjacent lands.	
14. Drainage Management: <ul style="list-style-type: none"> Temporary silt control measures to be implemented as required. All storm water runoff to be directed and dispersed through adequate sediment controls. 	17. Sediment Traps (sediment retention devices): <ul style="list-style-type: none"> Pit lids must be fitted as soon as possible and use temporary pit lids in the mean time. Use silt fences, silt sausages, cut off drains and/or other silt control measures where necessary as given in this EMP plan and as required by the situation.
15. Soil Stabilisation Before Construction: <ul style="list-style-type: none"> Determine locations for installation of silt curtains or other soil stabilisation measures to minimise erosion and sediment losses. During Construction: <ul style="list-style-type: none"> Top soil and re-grass disturbed areas where possible. Post Works: <ul style="list-style-type: none"> Top soil and re-grass disturbed areas Where required environmental control measures shall be inspected and maintained during maintenance period. 	18. Dewatering: <ul style="list-style-type: none"> Supervise during dewatering. Site shall be graded to avoid unnecessary ponding. In the event water ponding occurs this water shall be pumped into a temporary sump pit and filtered through silt fences prior to discharge into drains. Sump pit to be located away from drain inlets, water courses as nominated by Site Engineer.
16. Stockpile Management: <ul style="list-style-type: none"> Locate stockpiles away from roads, water ways and drainage lines where possible Divert run-off away from stock piles where possible Minimise number of stockpiles Restrict height of stockpile to minimise wind erosion Install silt fences to prevent sediment run off Install cut off drains with earth bund on the up slope of the stock piles Re-vegetation is encouraged when stock piles are not used for a long time	* 19. Vehicle and Road Management: Site Access: Cleaning Vehicles: <ul style="list-style-type: none"> All vehicles leaving the site must remove any excess sediments/clay collected on the vehicles whilst on site. Each operator must manually remove excess clay such that it minimises deposits on the road. Street Cleaning: <ul style="list-style-type: none"> Roads are to be cleaned prior to rain/ storm events. Storm water pits along the established roadway, which are subject to sediment deposits, shall be either fitted with kerb inlet protectors or shall be fitted with (geofabric) filter material to capture sediments. Roads are to be inspected and any sediment deposited on these roads shall be fully removed
20. Other:	

Waste Risk: Significant/Med/Low	
Requirement: Litter and waste must be contained onsite before disposal in a responsible manner. Waste generation must be minimised.	
21. Movement of Soil: Off site/ On site/ N/A Contaminant Status:	23. Waste Storage and Disposal: <ul style="list-style-type: none"> Lidded bins will be provided on site for general rubbish and emptied on a regular basis. A designated concrete wash out point will be provided for use by concrete trucks. This will be cleaned as required and waste disposed of appropriately to be arranged by contractor.
22. Waste Minimisation Methods: <ul style="list-style-type: none"> Separate recycle waste from general waste for recycling. Recycling bins to be clearly marked to avoid contamination of recyclable material. 	24. Other:

Chemicals Risk: Significant/Med/Low	
Requirement: Storage and spill management practices must be implemented to ensure that no environmental damage can result from the escape or spillage of chemicals or fuels.	
25. Storage: <ul style="list-style-type: none"> Minimise amounts of chemicals/ hazardous substances kept on site and these need to be labelled and securely stored within the site compound. 	27. Refuelling Procedure: <ul style="list-style-type: none"> Refuelling must be done away from drainage lines Fuel storage on site to be minimised Mobile refuelling truck to be used for major plant
26. Spill Management: <ul style="list-style-type: none"> Spill kits are to be kept on site and are used when required. 	28. Other:

Please show the following items on this plan:

- Contour lines
- Drainage patterns (including pits, swale drains, outfall points and related assets)
- Proximity to sensitive areas (eg: waterways, native vegetation, residential housing)
- Locations of access point/haul roads, stock piles, site compound and cut/fill areas
- Locations of environmental protection measures
 - Around all affected drainage pits, open drains, culverts, etc.
 - Around sensitive areas
 - Around stock piles
- Any other identified site specific measures

Other Site Specific Issues			
Significant Flora/Fauna Risk: Significant/Med/Low	Archaeological/Heritage Risk: Significant/Med/Low		
Requirement: All significant flora and fauna on and adjacent to the site must be protected. 29. Yes/No. Details:	Requirement: Places, sites and objects of archaeological or heritage significance must be protected. 30. Yes/No. Details:	31.	32.

I have read this Site Environmental Management Plan and agree to undertake works and ensure that subcontractors undertake works in accordance with this plan.

Developer

Consultant

Contractor

RISK ASSESSMENT CHECKLIST

Noise	
Issues:	<u>Likelihood</u>
- Nature of noise generating works:	
- Potential noise receptors:	<u>Consequence</u>
- Proximity of works to noise receptors:	
-	<u>Overall Risk</u>
-	

Dust	
Issues:	<u>Likelihood</u>
- Dust Sources:	
- Potential dust receptors:	<u>Consequence</u>
- Proximity of works to dust receptors:	
- Extent of exposed earth and duration of time exposed:	
- Wind conditions:	
-	<u>Overall Risk</u>
-	

Erosion and Sediment	
Issues:	<u>Likelihood</u>
- Erosion and sediment sources:	
- Potential erosion and sediment receptors:	<u>Consequence</u>
- Proximity of works to erosion and sediment receptors:	
- Extent of exposed earth and duration of time exposed:	
- Soil type and erosivity:	
- Slope:	
- Site drainage regime:	
- Rainfall:	
- Vehicle movements on and off site:	
-	<u>Overall Risk</u>
-	

Waste	
Issues:	<u>Likelihood</u>
- Nature of waste to be generated:	
- Presence of waste on site prior to work commencement:	<u>Consequence</u>
- Quantity of waste anticipated:	
- Potential waste receptors:	
- Proximity to waste receptors:	
-	<u>Overall Risk</u>
-	

Chemicals	
Issues:	<u>Likelihood</u>
- Types of chemicals (inc. fuels) to be stored/used on site:	
- Quantities of chemicals (inc. fuels) to be used on site:	<u>Consequence</u>
- Potential chemical receptors:	
- Proximity to chemical receptors:	
-	<u>Overall Risk</u>
-	

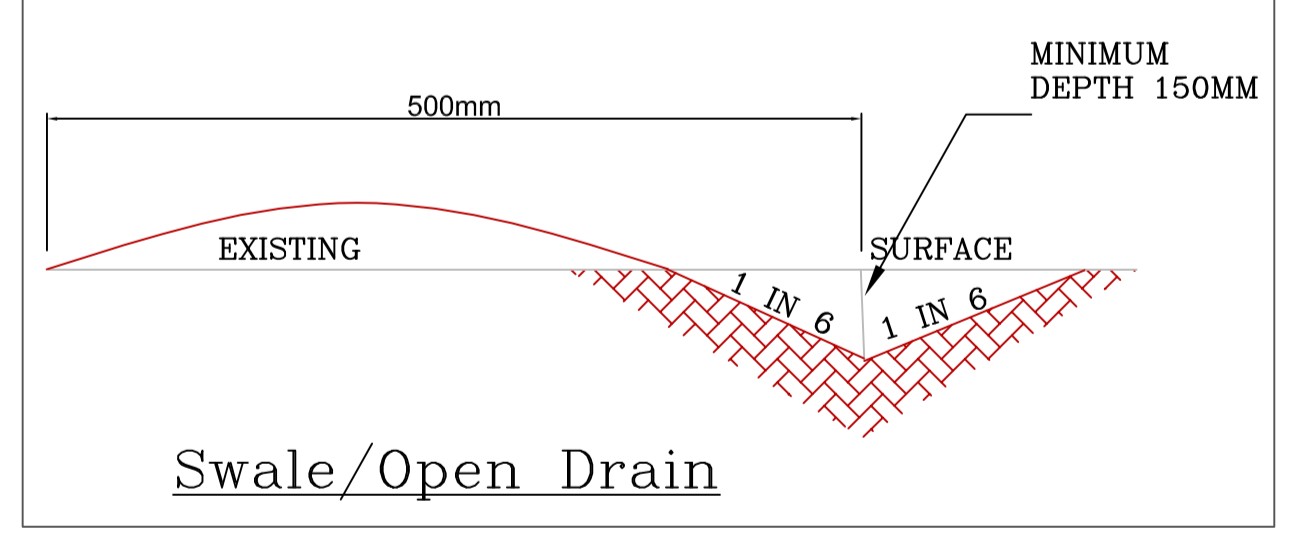
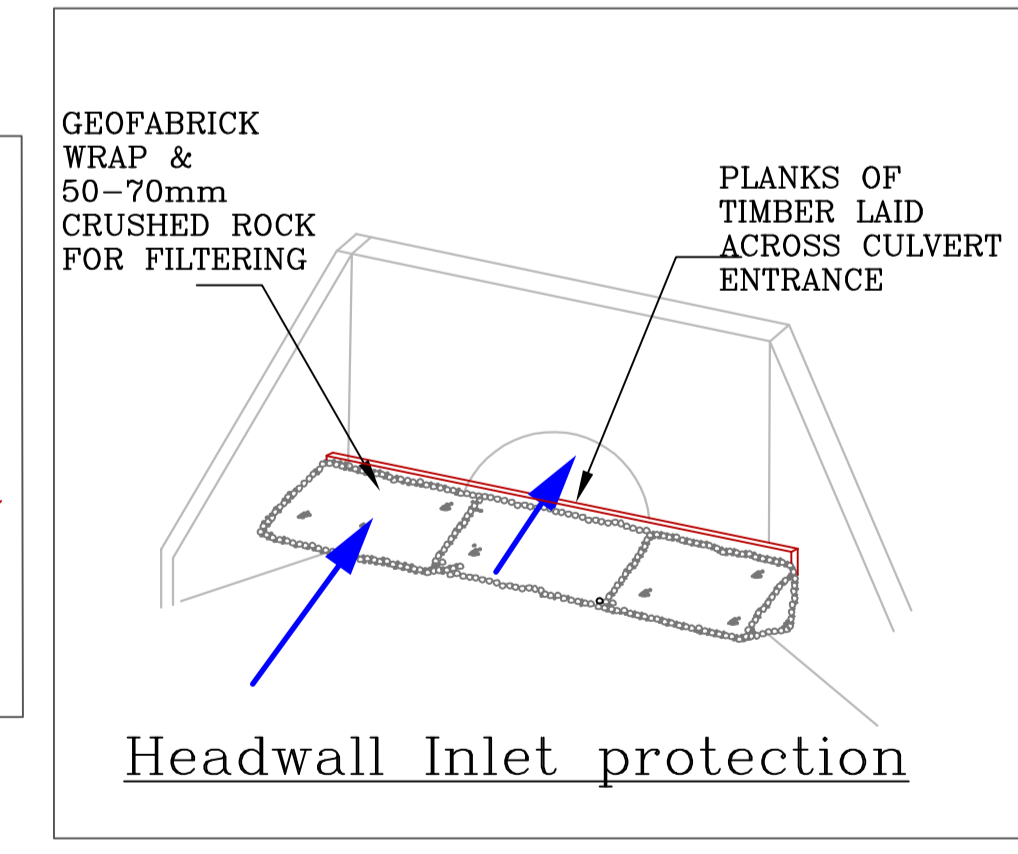
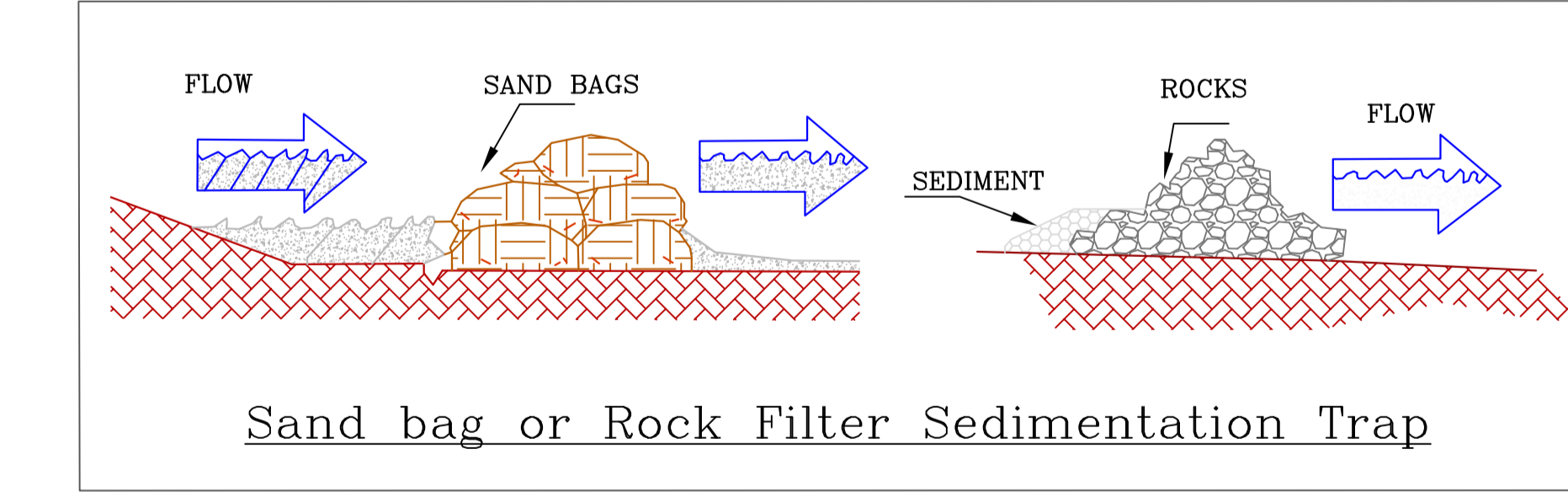
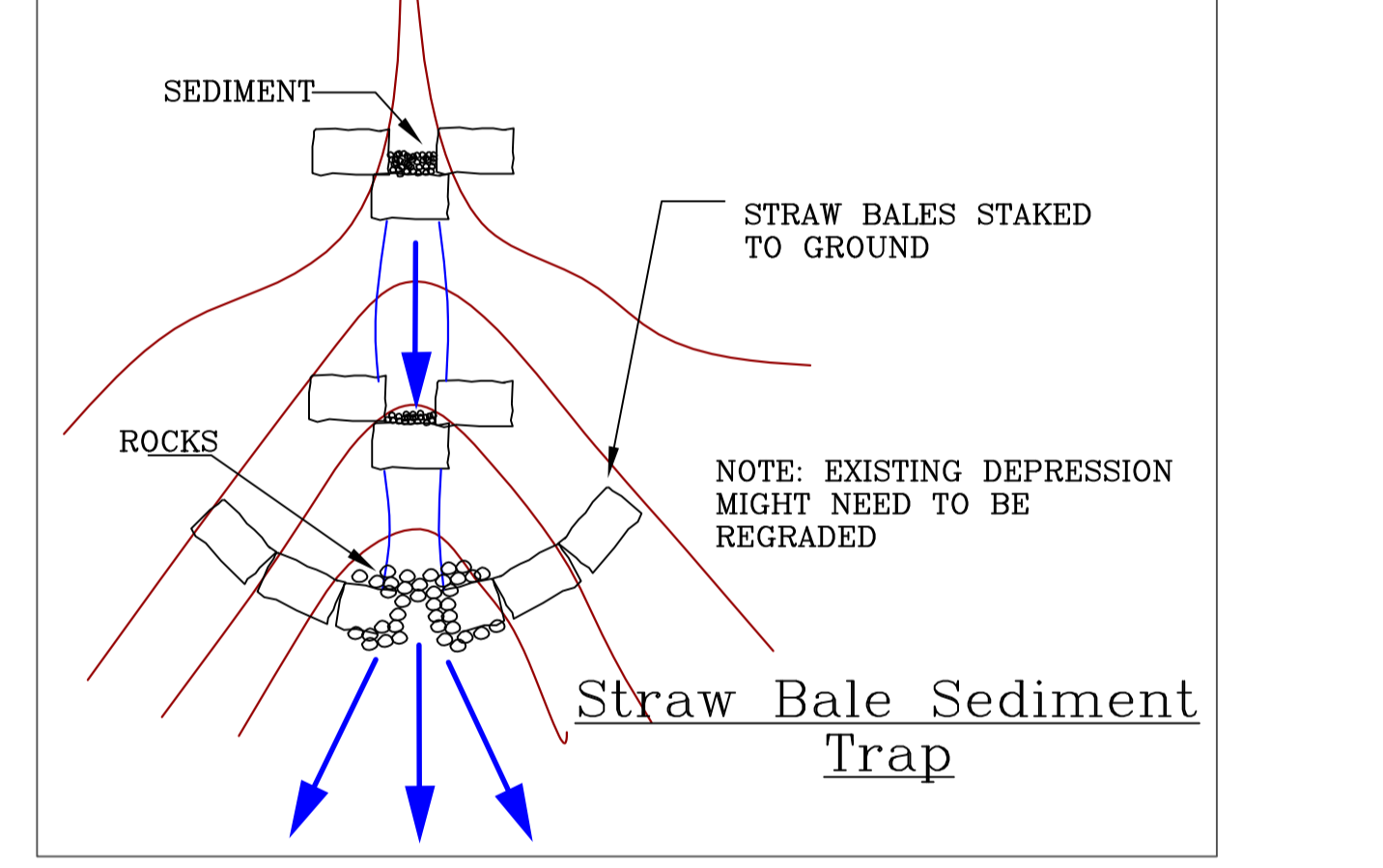
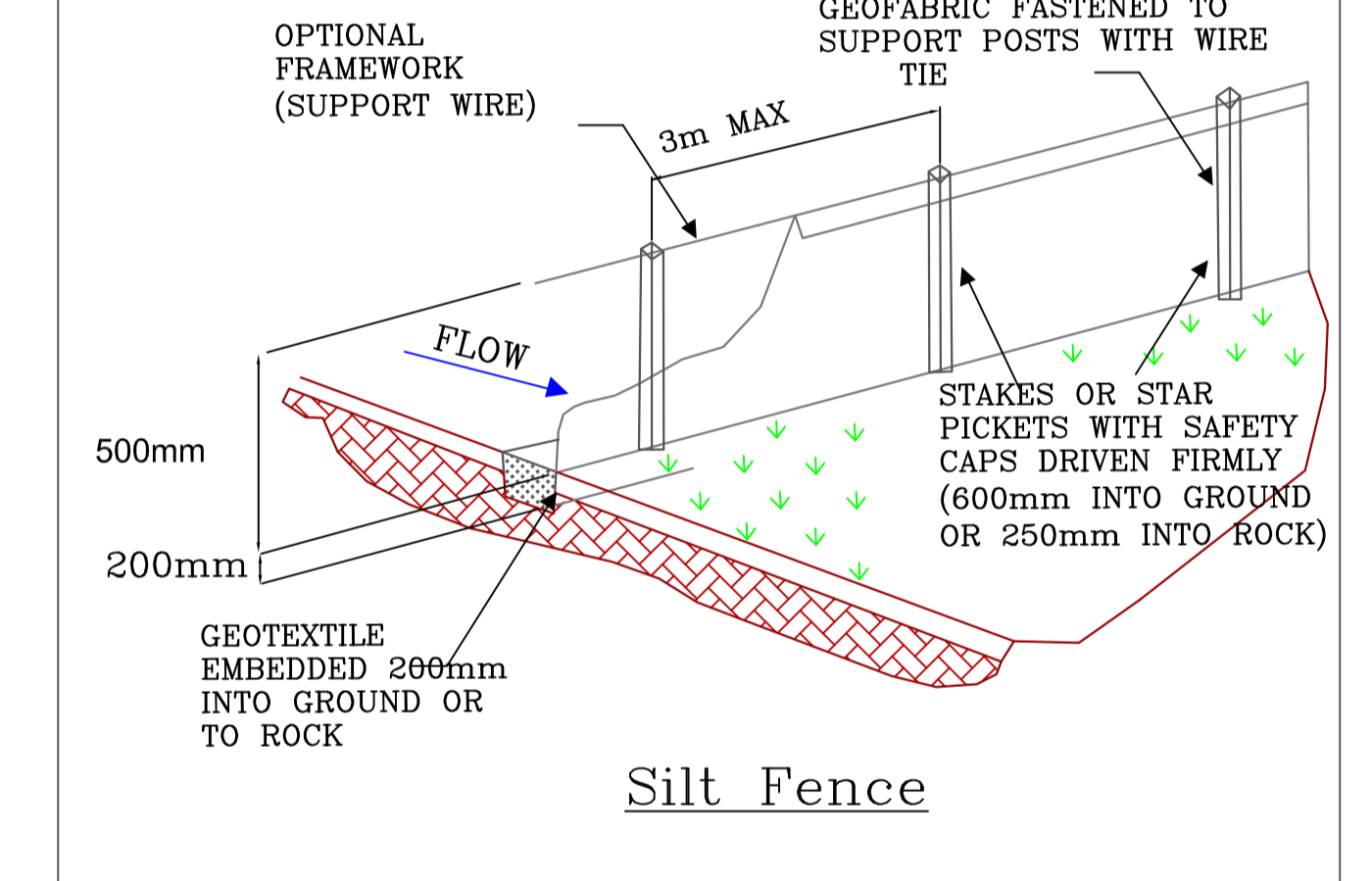
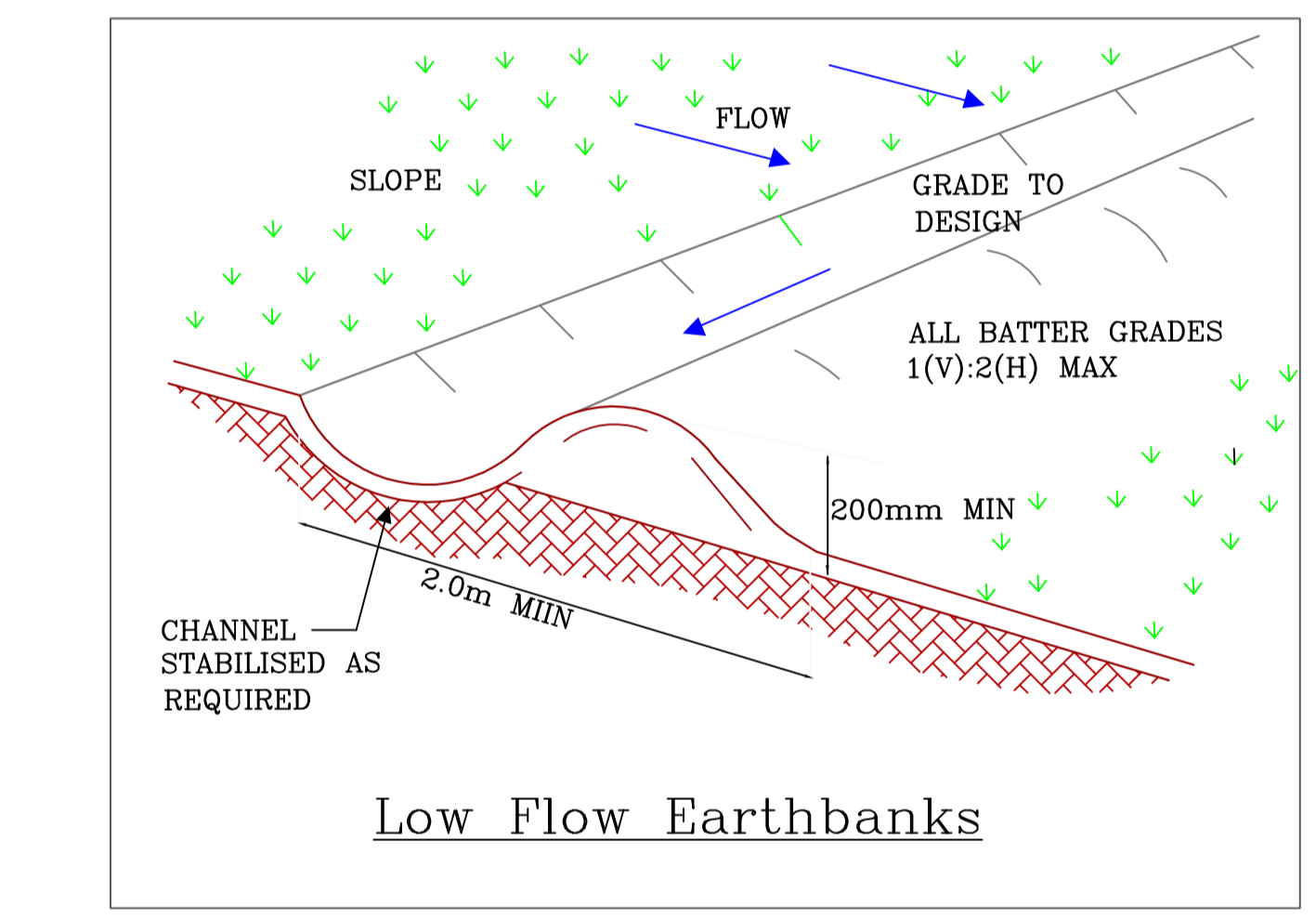
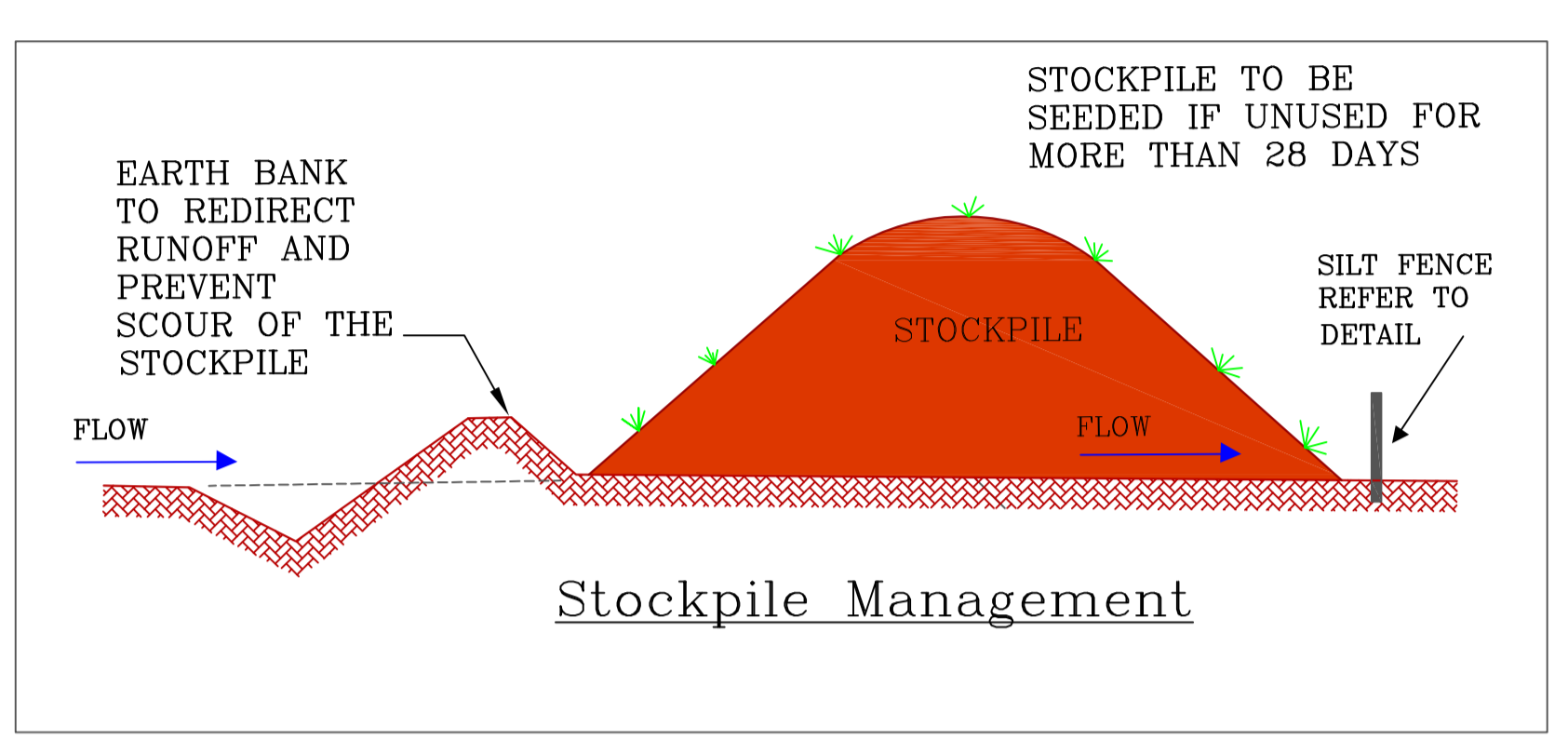
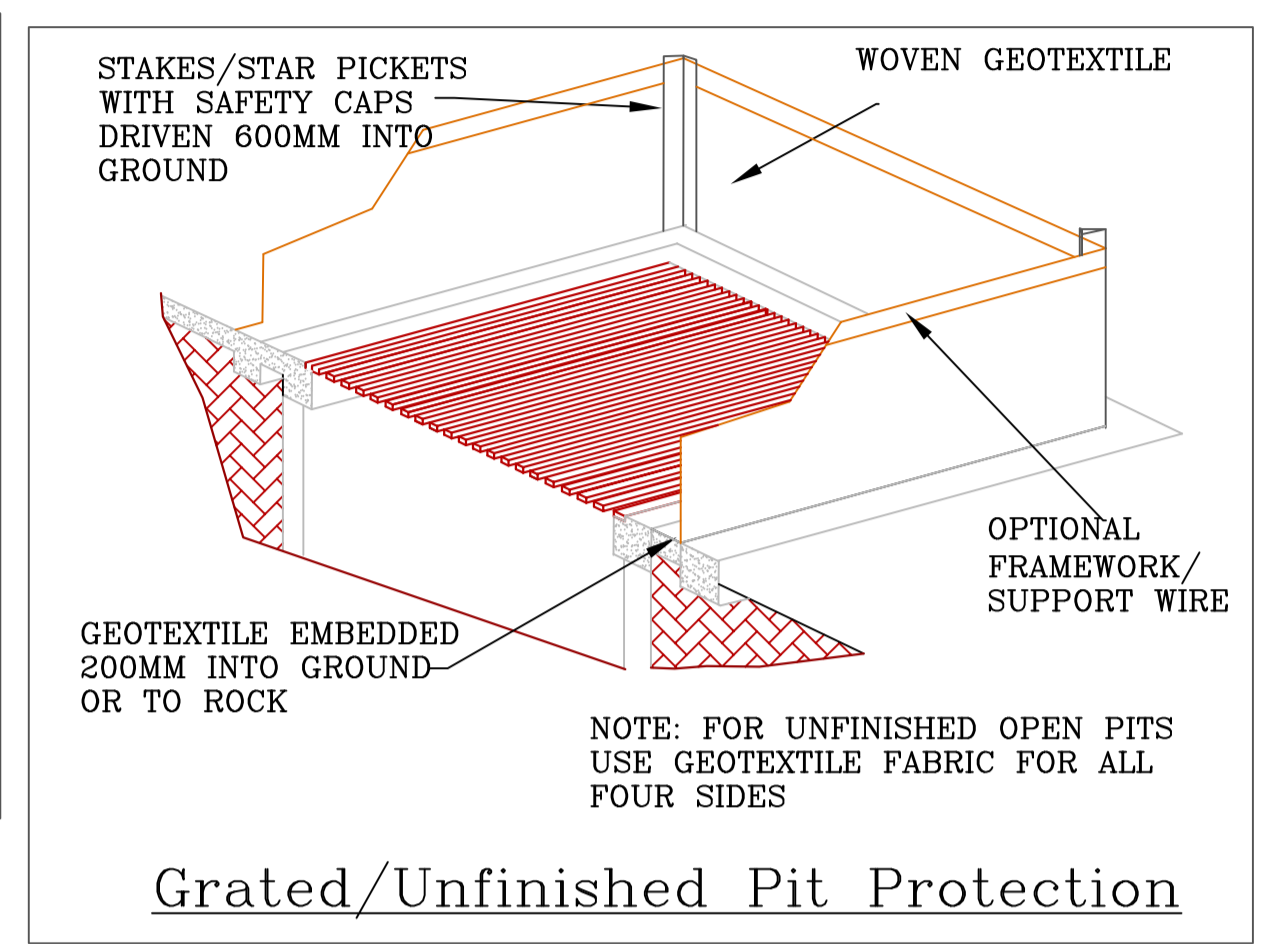
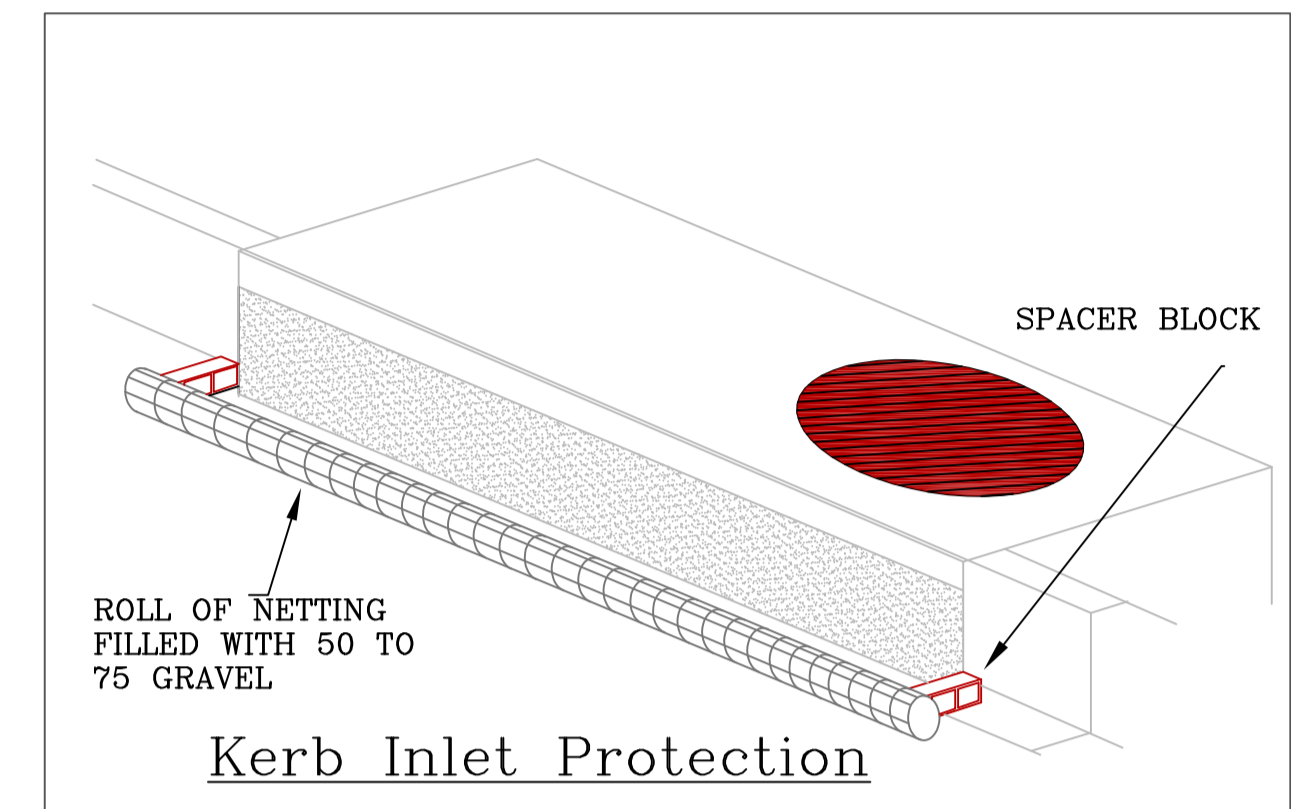
Flora/Fauna	
Issues:	<u>Likelihood</u>
- Types of flora/fauna:	
- Vulnerability of flora/fauna:	<u>Consequence</u>
- Proximity of works to flora/fauna:	
- Work activities which may threaten flora/fauna:	
- Potential impacts on flora/fauna:	
-	<u>Overall Risk</u>
-	

Archaeological/Heritage	
Issues:	<u>Likelihood</u>
- Traditional land owners consulted? : Yes/No	
- Survey or assessment conducted?: Yes/No/ Not Required	<u>Consequence</u>
- Probability of encountering archaeological/heritage items during works:	
- Types of archaeological/heritage items on site:	
- Proximity of archaeological/heritage items to works:	
- Work activities which may threaten archaeological/heritage items:	
- Potential impacts on archaeological/heritage items:	
-	<u>Overall Risk</u>
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SITE EMP A1 PLAN (2) - TYPES AND LOCATIONS OF ENVIRONMENTAL PROTECTION MEASURES

Project Name:
Date and Revision:

Environmental protection measures shall be constructed in accordance with the following designs and Typical Site Compound details.



NOTES
1. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
2. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED CLEANED AS REQUIRED.

Issues:	<u>Likelihood</u>	Issues:	<u>Likelihood</u>
-		-	
-	<u>Consequence</u>	-	<u>Consequence</u>
-		-	
-	<u>Overall Risk</u>	-	<u>Overall Risk</u>
-		-	

Disclaimer: The figures published by Council in this Template are only to provide a general reference. The Council does not accept any responsibility for any loss or damage resulting from the reliance on any suggested designs. All the Environmental Protection Measures are to be designed taking into account the individual site conditions.