

APPENDIX K

STANDARD DRAWINGS

Appendix K Standard Drawings

The title on all Standard Drawings was amended to remove reference to the year of the DCP revision. All amendment history is noted in the amendment boxes on the Standard Drawings.

Standard Drawing Number	Number of Sheets	Title	Any changes from 2007 Version
Notes			
SD-NT01	1	Notes – General	NO
SD-NT02	1	Notes – Concrete	NO
SD-NT03	1	Notes – Earthworks	NO
SD-NT04	1	Notes – Steelwork and Steel Reinforcement	NO
SD-NT05	1	Notes – Special Conditions	NO
SD-NT06	4	Notes – Product Specifications	NO
SD-NT07	1	Notes – Sediment and Erosion Control	NO
Roads			
SD-R01	1	Vertical Curves	NO
SD-R02	1	Cul-de-sac Standard	NO
SD-R03	1	Kerb Return Layout and Design Details	NO
SD-R04	1	Kerbs and Gutters	NO
SD-R05	1	Sub-soil Drainage	NO
SD-R06	1	Kerb Weephole and Kerb Adaptor	NO
SD-R07	4	Kerb Ramps	NO
SD-R08	2	Residential Vehicle Crossing	YES
SD-R09	2	Medium Density Vehicle Crossing	YES
SD-R10	2	Commercial and Industrial Vehicle Crossing	YES
SD-R11	1	Footpath	YES
SD-R12	1	Bicycle Path	NO
SD-R13	1	Low Mountable Island	NO
SD-R14	1	T-intersection Treatment	NO
SD-R15	1	Roundabouts	YES
SD-R16	1	Parking Modification to Provide Disabled Persons Parking	NO
SD-R17	1	Zig zag Pavement Markers	NO
SD-R18	1	Street Sign	NO
SD-R19	1	Supplementary Road Name Signposting for Roundabouts	NO
SD-R20	1	Log Vehicle Barrier	YES
SD-R21	1	Cycle path Holding Rail	NO
SD-R22	1	Laneway Baulk	NO

Standard Drawing Number	Number of Sheets	Title	Any changes from 2007 Version
SD-R23	1	Pathway Baulks	NO
SD-R24	1	Wire Rope Barrier	NO
Stormwater			
SD-S01	1	Trash Rack Warning Sign	NO
SD-S02	1	Pipe Flood Warning Sign	NO
SD-S03	1	Floodway Warning Sign	NO
SD-S04	1	Geo-composite Drain	NO
SD-S05	1	Connection to Main Drain	NO
SD-S06	1	Grated Gully Pit with Extended Kerb Inlet Pit	NO
SD-S07	1	Kerb Median Inlet Pit	NO
SD-S08	1	Surcharge Pit	NO
SD-S09	1	Step Irons	NO
SD-S10	1	Minor Drainage Connections	NO
SD-S11	1	Surface Inlet and Letterbox Pit	NO
SD-S12	2	Heavy Duty Junction Pit	NO
SD-S13	2	Outlet Details Grass Lined Channel/Creel	NO
SD-S14	1	Reinforced Turf Detail	NO
SD-S15	1	Pyramid Grate	NEW
SD-S16	1	No climbing warning sign	NEW
SD-S17	1	No planting warning sign	NEW
Miscellaneous			
SD-M01	1	Erosion and Sediment Control Plan	NO
SD-M02	1	Stockpiles	NO
SD-M03	1	Earth Bank (low flow)	NO
SD-M04	1	Straw Bale Filter	NO
SD-M05	1	Sediment Fence	NO
SD-M06	1	Mesh and Gravel Inlet Filter	NO
SD-M07	1	Geotextile Inlet Filter	NO
SD-M08	1	Kerbside Turf Strip	NO
SD-M09	1	Stabilised Site Access	NO

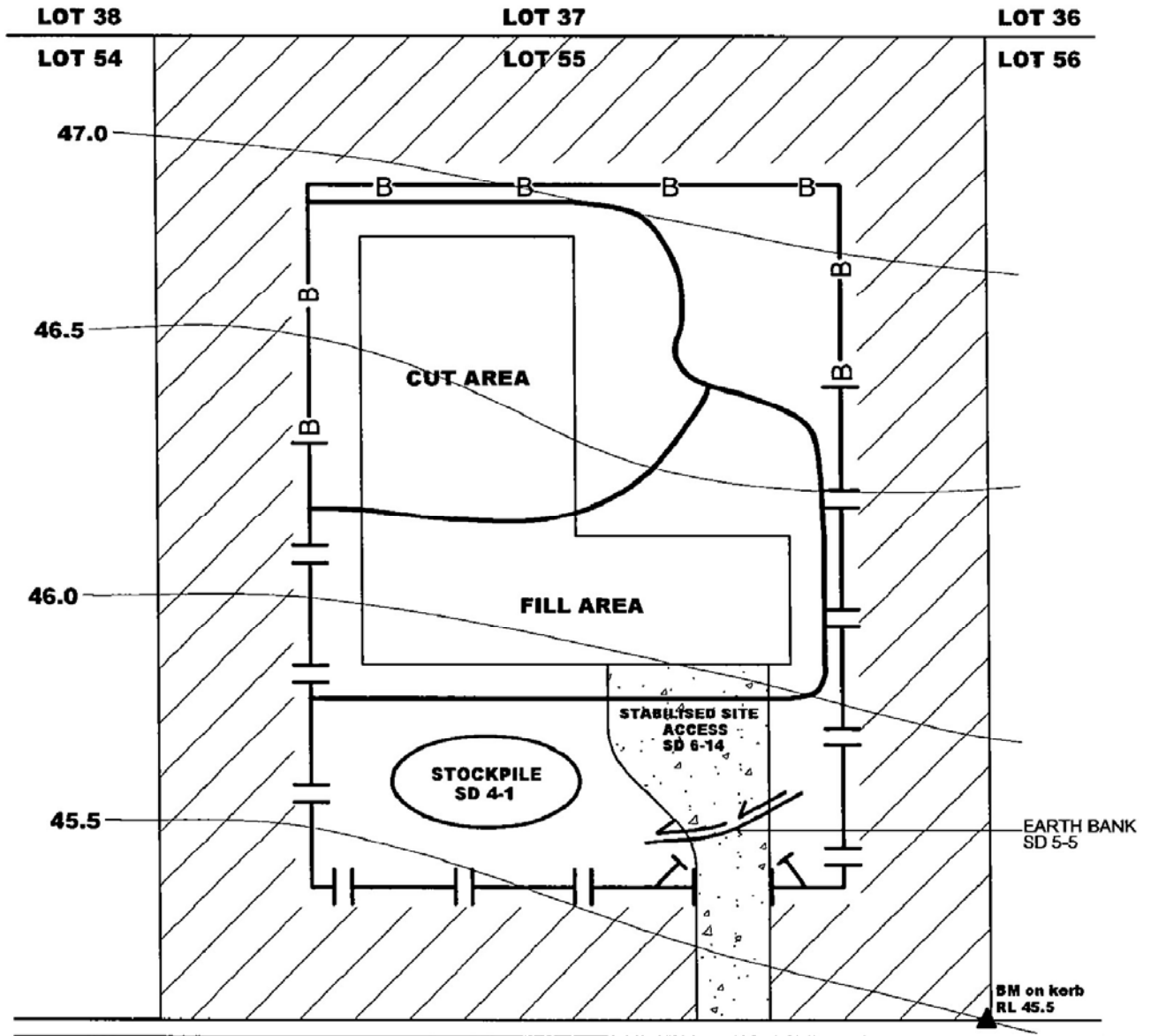
LEGEND

 Earth Bank, refer standard drawing SD 5-5

 Undisturbed Area


 Barrier fencing.

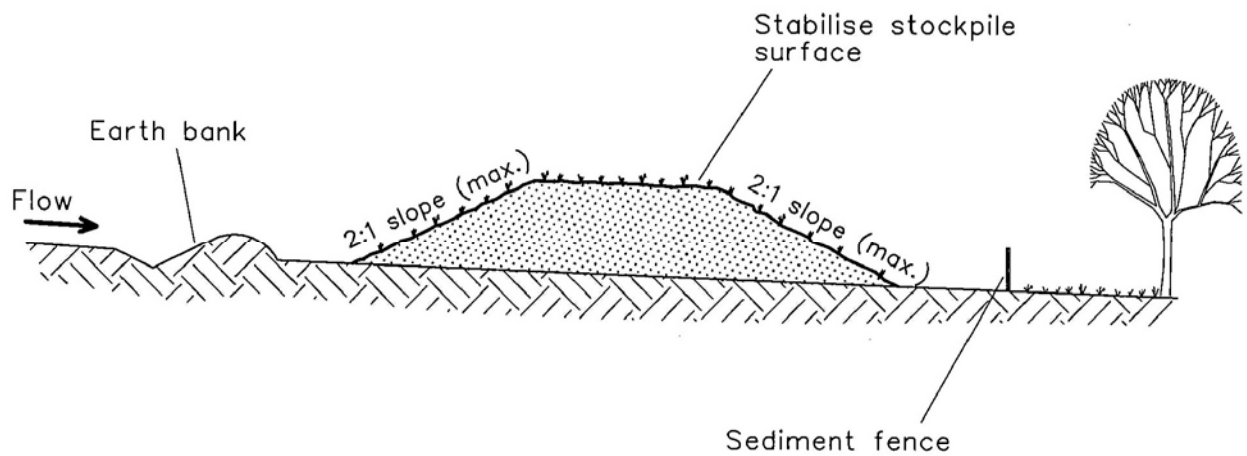
 Sediment fencing refer SD 6-8.



N E W S T R E E T

EXTRACT FROM LANDCOM "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION" ISBN 0-9752030-3-7 - FIG.9.4


				 <p>campbelltown city council</p>		CHECKED: C. Kinsey DATE: NOV 04						
						PROJECT TITLE: STANDARD DRAWINGS		APPROVED: D. Webb DATE: NOV 04				
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW								
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.								
SHEET TITLE: EROSION & SEDIMENT CONTROL PLAN					STD DWG No. SD-M01		SCALE: N.T.S		SHEET 1 of 1		REV. VER2007 DATE: MAY07	

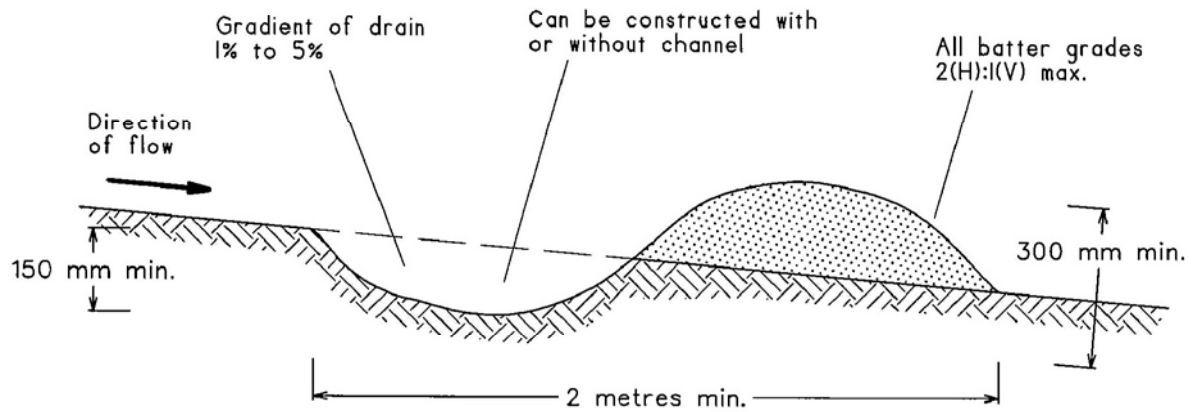


Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

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				 campbelltown city council		CHECKED:			
						C. Kinsey		DATE: NOV 04	
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW	PROJECT TITLE:		APPROVED:		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STANDARD DRAWINGS		D. Webb		
						DATE: NOV 04			
SHEET TITLE:				STD DWG No.		SCALE:		SHEET	
STOCKPILES				SD-M02		N.T.S		1 of 1	
								REV.	
								VER2007	
								DATE: MAY07	




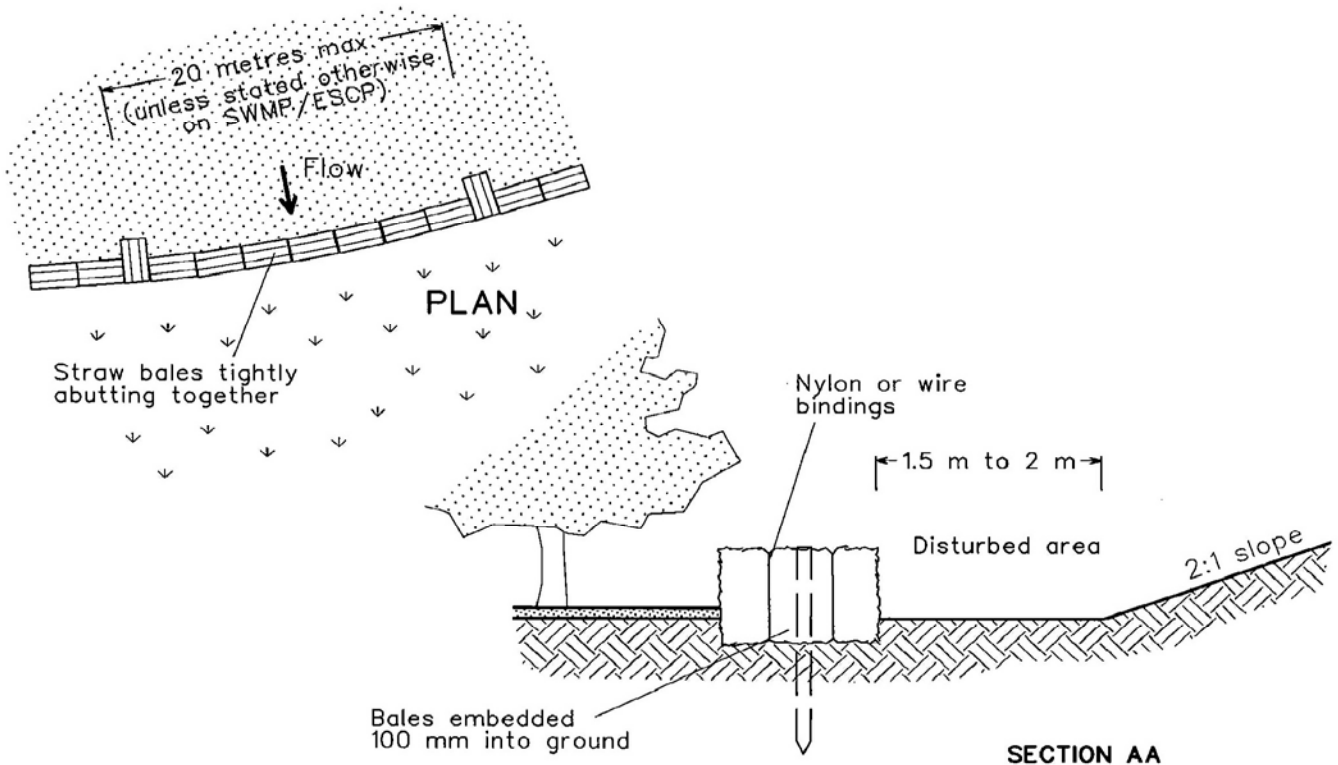
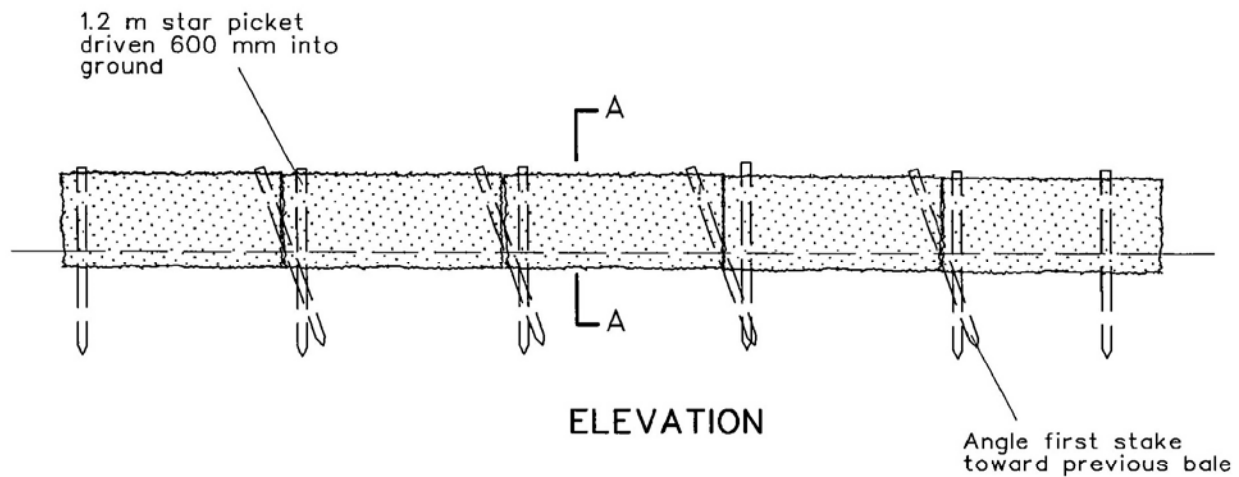
NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

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				 campbelltown city council		CHECKED: C. Kinsey DATE: NOV 04						
						PROJECT TITLE: STANDARD DRAWINGS		APPROVED: D. Webb DATE: NOV 04				
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW								
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.								
SHEET TITLE: EARTH BANK (LOW FLOW)					STD DWG No. SD-M03		SCALE: N.T.S		SHEET 1 of 1		REV. VER2007 DATE: MAY07	

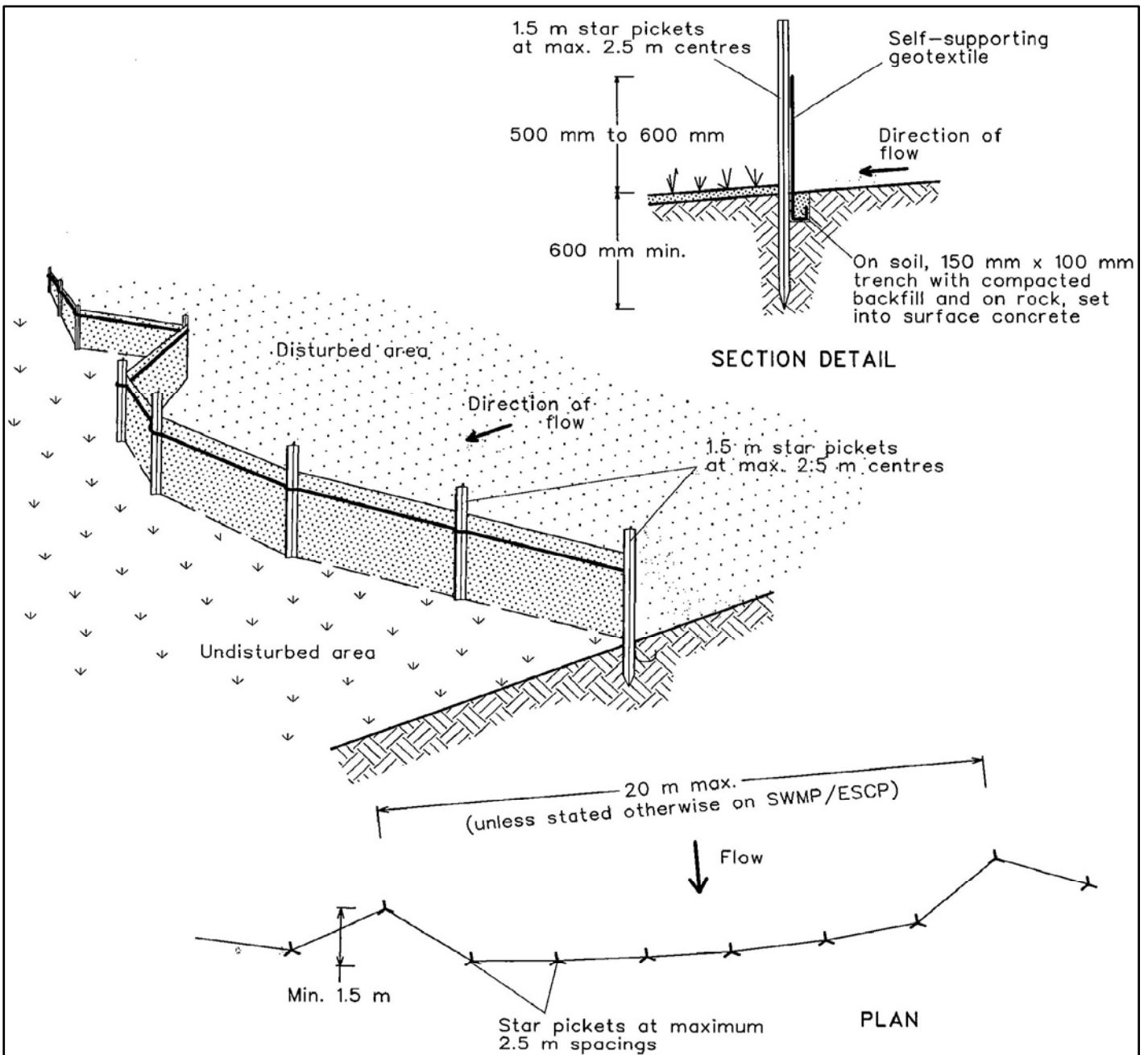


Construction Notes

1. Construct the straw bale filter as close as possible to being parallel to the contours of the site.
2. Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
3. Ensure that the maximum height of the filter is one bale.
4. Embed each bale in the ground 75 mm to 100 mm and anchor with two 1.2 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
5. Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
6. Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

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						CHECKED:			
						C. Kinsey		DATE: NOV 04	
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW	PROJECT TITLE:		APPROVED:		
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.	STANDARD DRAWINGS		D. Webb		
SHEET TITLE:				STD DWG No.		SCALE:		SHEET	
STRAW BALE FILTER				SD-M04		N.T.S		1 of 1	
								REV.	
								VER2007	
								DATE: MAY07	

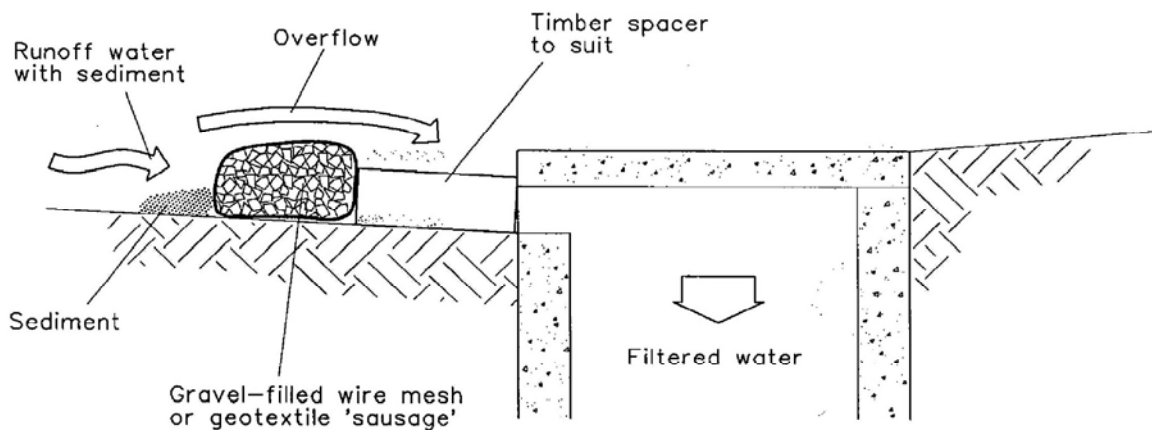
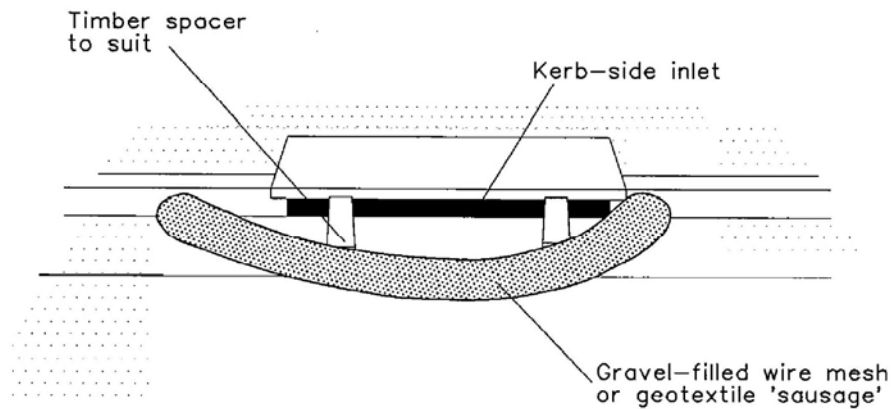


Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile 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.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

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						PROJECT TITLE: STANDARD DRAWINGS		APPROVED: D. Webb DATE: NOV 04
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW				
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.				
SHEET TITLE: SEDIMENT FENCE					STD DWG No. SD-M05		SCALE: N.T.S	
							SHEET 1 of 1	
							REV. VER2007 DATE: MAY07	




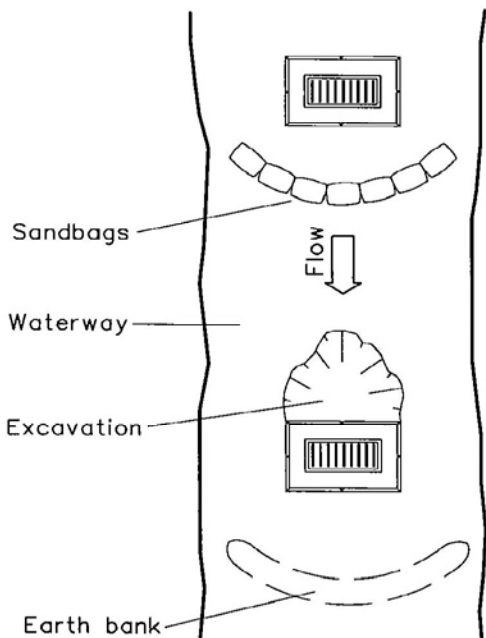
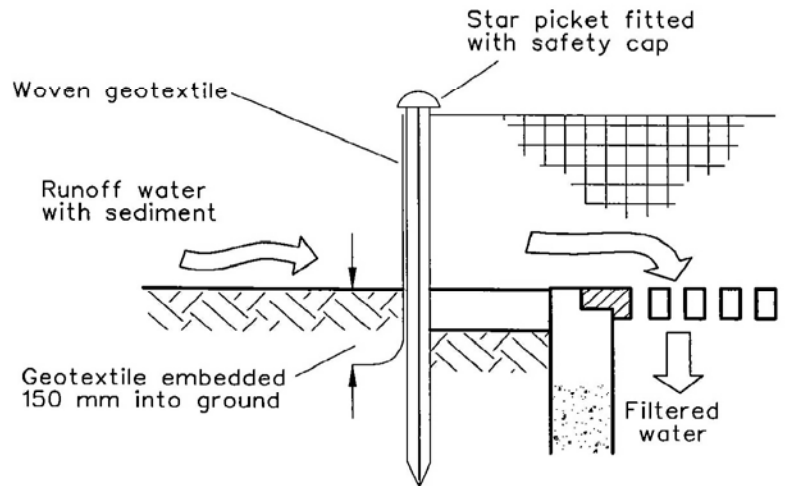
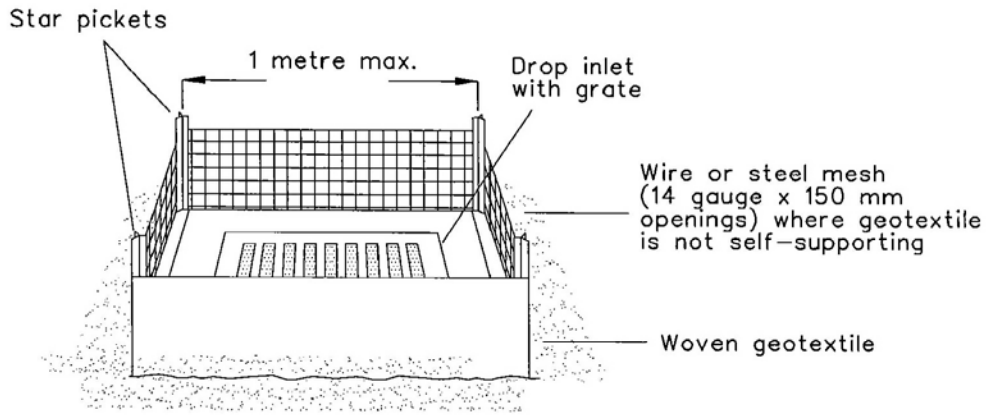
NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

Construction Notes

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

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				 campbelltown city council		CHECKED: C. Kinsey DATE: NOV 04				
						PROJECT TITLE: STANDARD DRAWINGS		APPROVED: D. Webb DATE: NOV 04		
REV.	DATE	DESCRIPTION	CHECKED	APP'D.	SHEET TITLE:		STD DWG No.	SCALE:	SHEET	REV.
--	MAY 2007	REVIEWED - NO CHANGES	CK	DW	MESH AND GRAVEL INLET FILTER		SD-M06	N.T.S	1 of 1	VER2007
										DATE: MAY07



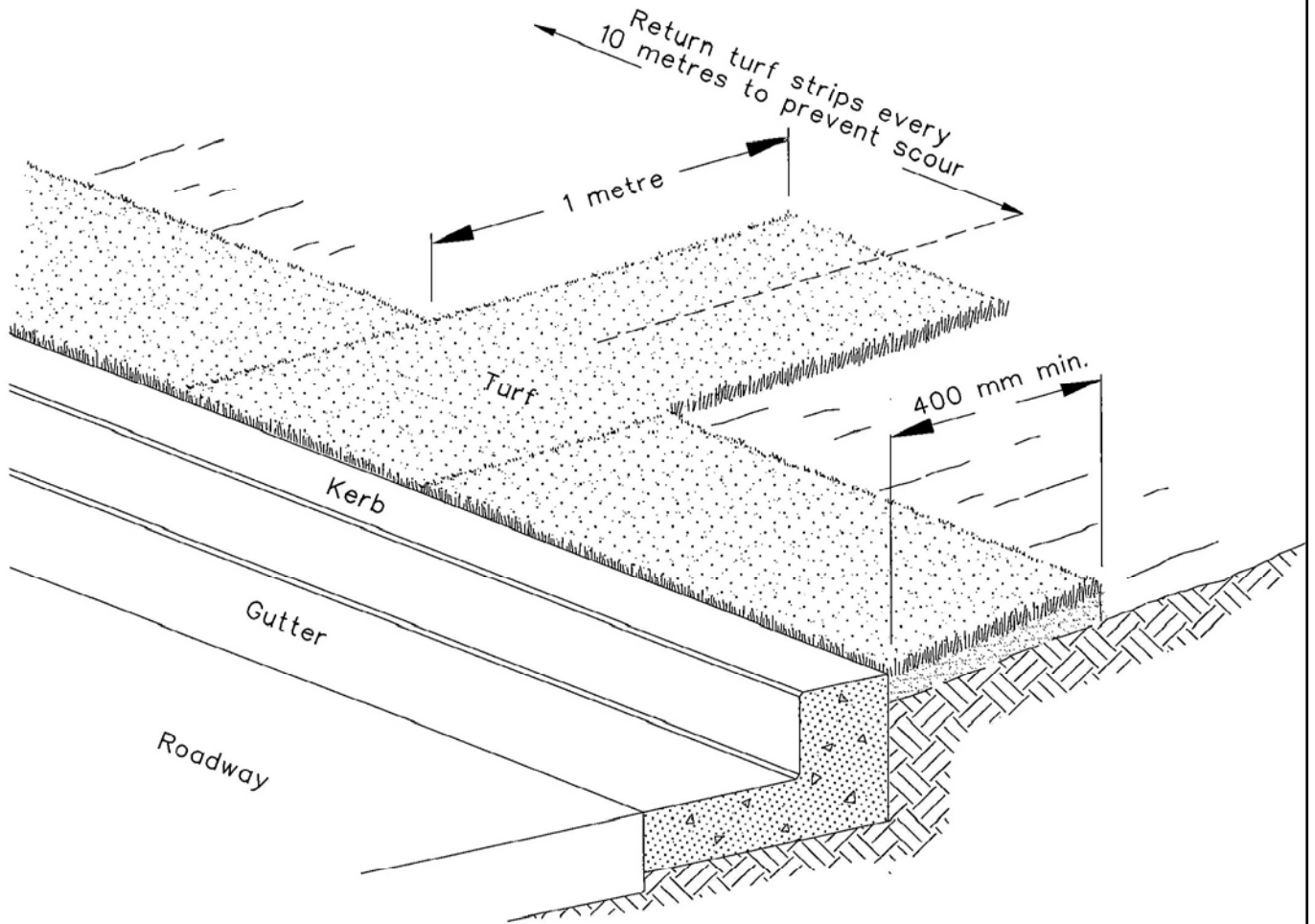
For drop inlets at non-sag points, sandbags, earth bank or excavation used to create artificial sag point

Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

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						PROJECT TITLE: STANDARD DRAWINGS		APPROVED: D. Webb DATE: NOV 04				
---	MAY 2007	REVIEWED - NO CHANGES	CK	DW								
REV.	DATE.	DESCRIPTION	CHECKED	APP'D.								
SHEET TITLE: GEOTEXTILE INLET FILTER					STD DWG No. SD-M07		SCALE: N.T.S		SHEET 1 of 1		REV. VER2007 DATE: MAY07	

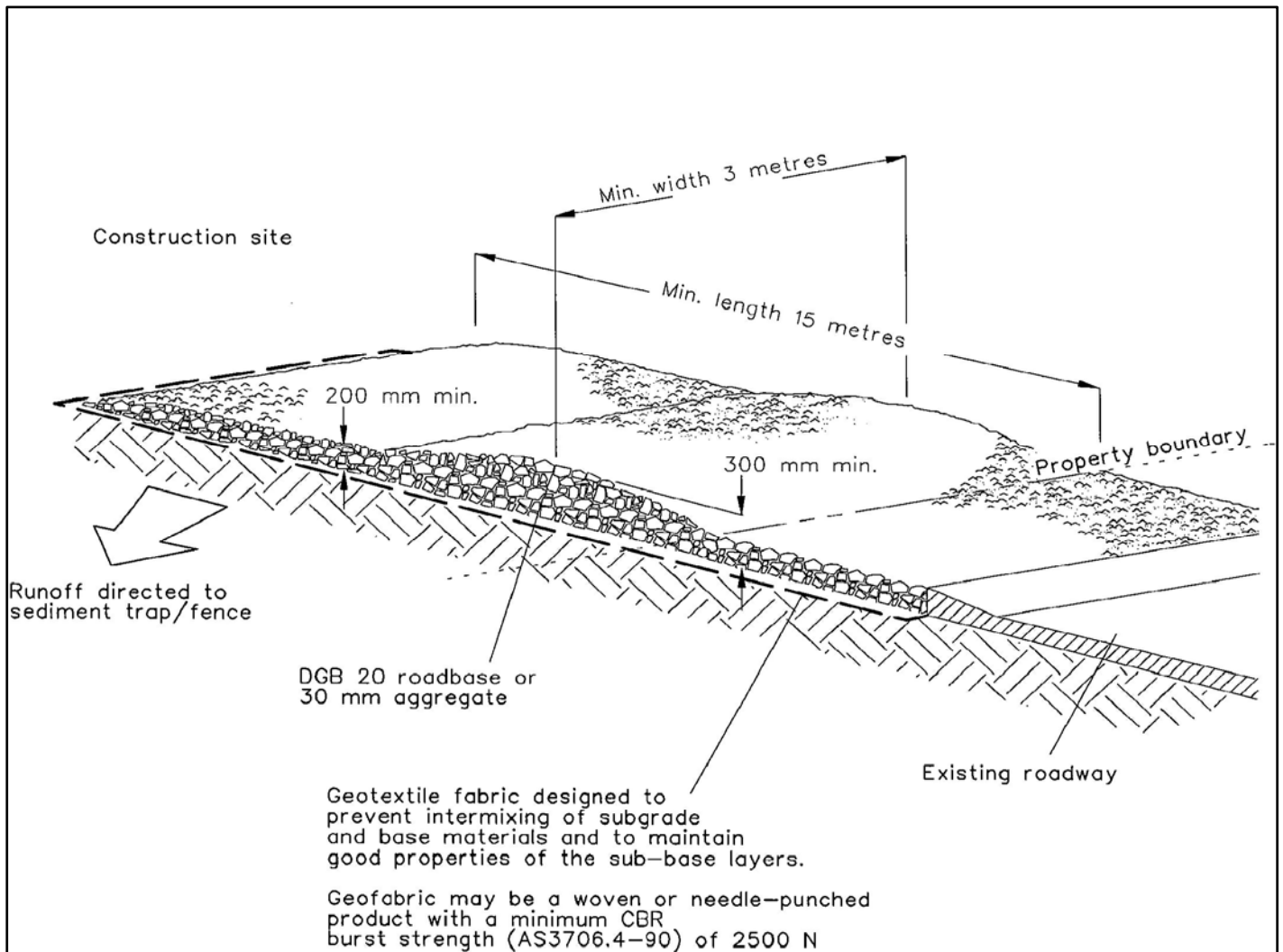


Construction Notes

1. Install a 400-mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
2. Lay 1.4 metre long turf strips normal to the kerb every 10 metres.
3. Rehabilitate disturbed soil behind the

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						PROJECT TITLE: STANDARD DRAWINGS	
---	MAY 2007	REVIEWED - NO CHANGES		CK	DW		
REV.	DATE.	DESCRIPTION		CHECKED	APP'D.		
SHEET TITLE: KERBSIDE TURF STRIP				STD DWG No. SD-M08		SCALE: N.T.S	
						SHEET 1 of 1	
						REV. VER2007 DATE: MAY07	



Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

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						PROJECT TITLE: STANDARD DRAWINGS	
---	MAY 2007	REVIEWED - NO CHANGES		CK	DW		
REV.	DATE.	DESCRIPTION		CHECKED	APP'D.		
SHEET TITLE: STABILISED SITE ACCESS				STD DWG No. SD-M09		SCALE: N.T.S	
				SHEET 1 of 1		REV. VER2007 DATE: MAY07	