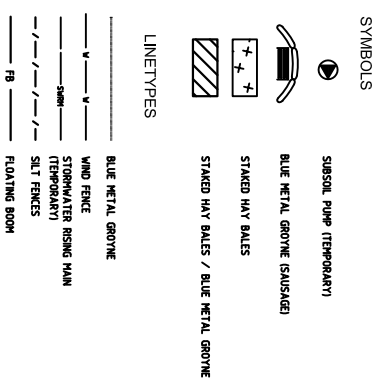


AUSTRALIAN INSTITUTE OF POLICE MANAGEMENT FOR THE AUSTRALIAN FEDERAL POLICE EROSION AND SEDIMENT CONTROL

LEGEND



NOTES

DRAWING SCHEDULE

DWG No	DESCRIPTION
ES1	PROJECT INFORMATION AND DETAIL SHEET
ES2	EROSION & SEDIMENT CONTROL MASTER PLAN

MINIMUM REQUIREMENTS
GENERAL
PROVIDE ON SITE CONTROLS THROUGHOUT THE ENTIRE WORKS TO PREVENT EXCESSIVE EROSION AND SEDIMENT LOSS.
ENSURE LEAST DISTURBANCE TO SITE.

AS EACH AREA IS COMPLETED, THAT AREA IS TO BE REVEGETATED AND FERTILISED. SILT FENCES, STRAW BALES OR OTHER CONTROLS NEED TO BE PROVIDED UNTIL THE SITE IS STABLE. SHOULD THIS APPROACH NOT BE PRACTICAL, THE PROGRESSIVE REVEGETATION OF NONROADWAY AREAS WILL BE REQUIRED.

WHERE THERE IS GRADE ON OTHER AREAS OF THE SITE THAT MAY LEAD TO EROSION, FURTHER APPROPRIATE TREATMENT IS TO BE LOCATED TO CONTROL EROSION (i.e. STRAW BALES).

THE PROVISION AND MAINTENANCE OF (SEDIMENT) SILT FENCES WILL BE NECESSARY DURING THE CONSTRUCTION PHASE. PROGRESSIVELY REMOVE AND/OR RELOCATE SILT FENCES FOR CLEANING. REMOVAL OF FENCES TO BE CARRIED OUT DURING PERIODS OF DRY WEATHER.

FLARE AREAS
SEDIMENT LOSS FROM THE AREAS OF FLARE MUST BE CONTROLLED DURING AND AFTER CONSTRUCTION. BEFORE REVEGETATION TAKES PLACE USING SILT FENCES AND OR STRAW BALES AS INSTRUCTED BY THE PROJECT MANAGER TO DIRECT WATER FROM THE DISTURBED AREA. OTHER MEASURES SHALL BE CARRIED OUT AS DIRECTED BY THE PROJECT MANAGER AND/OR AS SHOWN ON THE PLANS.

STOCK PILE SITES
THE STOCK PILE LOCATION SHOWN ON THE PLAN IS PRELIMINARY. SHOULD THE BUILDER WISH TO RELOCATE THE STOCKPILE, HE SHALL OBTAIN APPROVAL FROM PROJECT MANAGER PRIOR TO RELOCATING THE STOCKPILE. STOCK PILES SHALL PRODUCE DRAWINGS INDICATING THE LOCATION OF STOCK PILES.

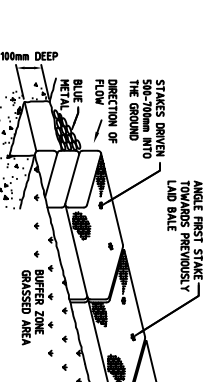
STOCK PILE SITES SHALL BE LOCATED AWAY FROM EXISTING OR PROPOSED STRUCTURES OR NEARLY ADJACENT TO BE DISTURBED WITHIN THE DWP ZONE OF TREES.

STOCK PILE SITES MUST BE PROTECTED FROM EROSION AND SEDIMENT LOSS BY THE PROVISION OF STRAW BALES OR OTHER CONTROLS APPROVED BY PROJECT MANAGER.

WIND EROSION
WIND EROSION DURING CONSTRUCTION. THE GROUND SURFACE SHOULD BE KEPT DAMP NOT WET. THE SURFACE SHOULD BE LEFT IN A ROUGH CLOUDY CONDITION TO INCREASE ROUGHNESS AND SLOW SURFACE WIND SPEED.

LOCATION OF SEDIMENT CONTROL METHODS i.e. SILT FENCES ARE SHOWN DIAGRAMMATICALLY ONLY ON DRAWING FINAL LOCATION, EXTENT AND TYPE OF SEDIMENT CONTROL METHODS SHALL BE TO THE SATISFACTION OF PROJECT MANAGER.

THE CONTRACTOR, UNDER SECTION 6 OF THE CLEAN WATERS ACT, IS LIABLE FOR THE DEPOSITION OF ANY CONTAMINANTS DEPOSITED ON ROADWAYS AFTER LEAVING THE CONSTRUCTION SITE.

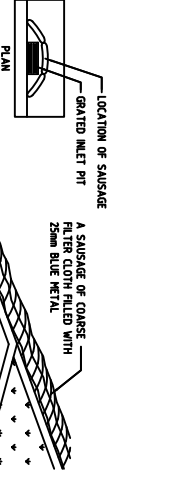


DETAIL - STRAW BALE BARRIERS

DESCRIPTION
A TEMPORARY BARRIER OF STRAW BALES PLACED AROUND THE PERIMETER OF A DISTURBED AREA.
USAGE
STRAW BALE BARRIERS ARE USED TO DEALT CONTAMINATED WATER.

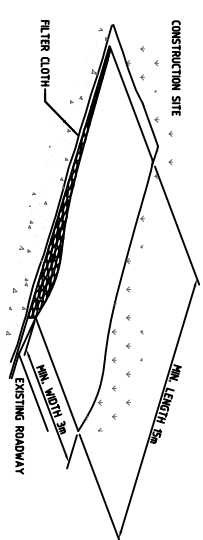
INSTALLATION
STRAW BALES ARE ONLY EFFECTIVE ON SITES OF LESS THAN HALF A HECTARE. THE BALES MUST BE CONNECTED AND ANCHORED TO THE GROUND BY DRIVING TWO TOWARDS THE ADDING BALE AT A 45° ANGLE TO FORCE THE BALES TOGETHER. THE ADDING BALE AT A 45° ANGLE TO FORCE THE BALES TOGETHER. LIFE EXPECTANCY OF THREE TO SIX MONTHS.

MAINTENANCE
ALL STRAW BALE BARRIERS MUST BE INSPECTED AND REPORT REMOVED, DAMAGED BALES SHOULD BE REPLACED OR REPAIRED BALES HAVE A LIFE EXPECTANCY OF THREE TO SIX MONTHS.



DETAIL - BLUE METAL GROUVE (SAUSAGE)

DESCRIPTION
THE GROUVE COMPRESSES A SAUSAGE OF SHADE CLOTH OR OTHER PREVIOUS FABRIC, SOME 20mm DIAMETER, FILLED WITH 25mm BLUE METAL AND CLOSED BOTH ENDS.
INSTALLATION
THE SAUSAGE IS LAID ON THE GROUND ON THE CONTOUR SIMILAR TO A SILT FENCE. GENERALLY THE SAUSAGE SHOULD BE LAID TWO HIGH TO OBTAIN ENOUGH FILTER AREA.
LOCATION
THE GROUVE SHOULD BE LOCATED ACROSS THE ENTRY DRIVEWAY TO THE SITE AND AROUND THE NEAREST DOWNSTREAM ROAD ENTRY PITS.

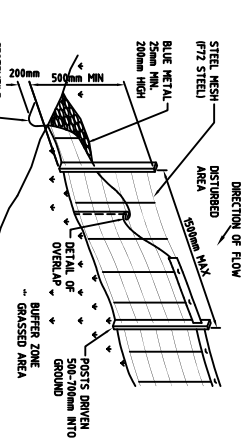


DETAIL - SHAKE DOWN AREAS ACCESS STABILISATION

DESCRIPTION
STABILISATION SHALL BE A BED OF AGGREGATE ON FILTER CLOTH, GRADE THE STRAUSAGE SO THAT IT IS AT LEAST 15 METRES LONG WITH A MINIMUM WIDTH OF 3 METRES. THE STRAUSAGE SHALL BE LAID ON THE GROUND AND COVER IT WITH 25mm MINIMUM THICKNESS OF 50mm AGGREGATE RIVER GRAVEL, OR A RECYCLED OR RECLAIMED CONCRETE EQUIVALENT.

USAGE
SUCH STRUCTURES SHALL BE USED AT ALL POINTS WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE THE SITE AND EXISTING ROADWAYS.

INSTALLATION
SURFACE WATER FLOWING TO THE ENTRANCE MUST BE PIPED UNDER THE ENTRANCE, ON A BEAM CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE ROAD. THE BEAM SHALL BE CONSTRUCTED TO BE AT LEAST 150mm HIGH AND COVERED WITH GRAVEL. ETC TO A CONSTRUCTION SITE MUST BE MANUALLY CLEANED OF MATERIAL BEFORE THE VEHICLE LEAVES THE SITE. SHOULD THE MATERIAL BE DEPOSITED ON THE ROADWAY ETC, SUCH MATERIAL SHALL BE SWEEPED AND REMOVED FROM THE ROADWAY.



DETAIL - SILT FENCES

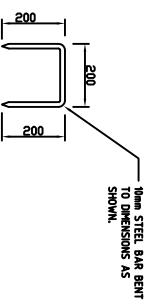
DESCRIPTION
SILT FENCES ARE TEMPORARY BARRIERS MADE FROM A COMBINATION OF FILTER CLOTH AND BLUE METAL.

USAGE
SILT FENCES FILTER RUN-OFF LEAVING THE SITE TRAPPING THE SEDIMENT AND ALLOWING CLEAN FILTERED WATER TO PASS. SILT FENCES ARE TO BE PLACED ON THE CONTOUR OR SLIGHTLY CONVEY TO THE DOWNSTREAM. THE CONTOUR LINE FOR THE SILT FENCE SHOULD BE DETERMINED BY THE PROJECT MANAGER AND SHOULD BE NO LOWER THAN ABOUT 20 METRES, THEY SHOULD NOT INTERCEPT LARGE CONCENTRATED OR CHANNELLED FLOWS.

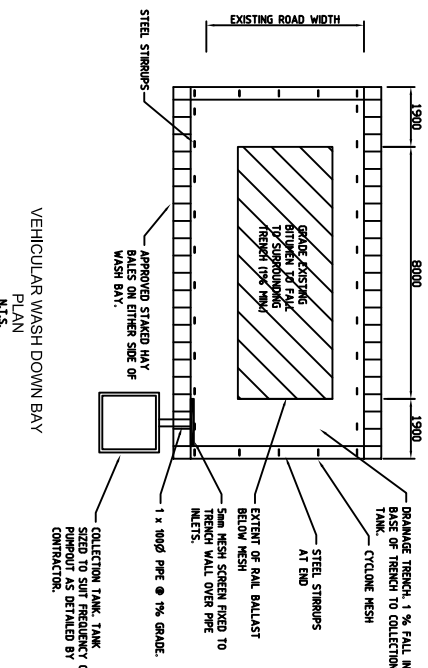
INSTALLATION
THE AREA BELOW A SILT FENCE MUST BE UNDISTURBED ON STABILISED GROUND.

MAINTENANCE
SILT FENCES REQUIRE REGULAR MAINTENANCE. TRAPPED SEDIMENTS SHOULD BE REMOVED. PICKETS STRAIGHTENED, FILTER CLOTH RESCUED AND DAMAGED AND BLUE METAL REPLACED WHEN HEAVILY CONTAMINATED WITH SILT.

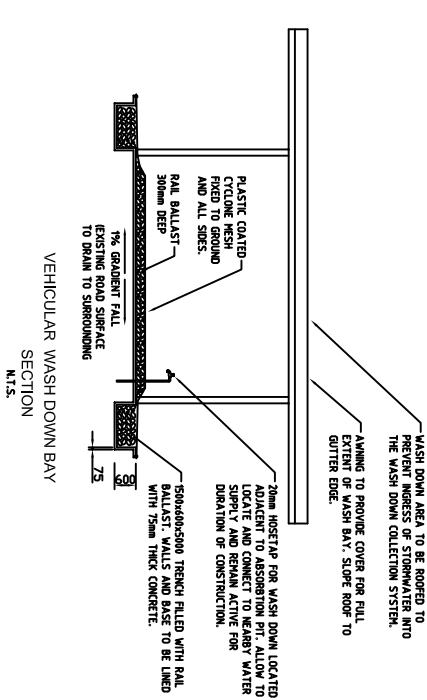
NOTE
FILTER FABRIC SHALL BE EQUIVALENT TO 'GOLAR' AND BE CAPABLE OF INTERCEPTING SILT PARTICLES DOWN TO 2 MICRON IN SIZE.



STEEL STRIPUP DETAIL



VEHICULAR WASH DOWN BAY PLAN M.T.S.



VEHICULAR WASH DOWN BAY SECTION M.T.S.

NO	DATE	DESCRIPTION	BY	SCALE
08	08-14-17	ISSUED FOR PERMITTED PROJECT REPORT	JM	AS SHOWN
07	11-12-08	RE-ISSUED FOR FINAL DRAFT	JM	AS SHOWN
06	8-12-08	DRAFT FINAL ISSUE	JM	AS SHOWN
05	5-12-08	ISSUED FOR PERMITTED PROJECT REPORT	JM	AS SHOWN
04	3-12-08	ISSUED FOR DRAFT REPORT	JM	AS SHOWN
03	20-11-08	ISSUED FOR DRAFT REPORT	JM	AS SHOWN
02	6-11-08	ISSUED FOR PERMITTED PROJECT REPORT	JM	AS SHOWN
01	6-11-08	ISSUED FOR INFORMATION	JM	AS SHOWN

PROJECT
AUSTRALIAN INSTITUTE OF POLICE MANAGEMENT FOR THE AUSTRALIAN FEDERAL POLICE

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DATE 16-12-08
SCALE AS SHOWN
DRAWING No. ES1
DATE 08