







LEGEND

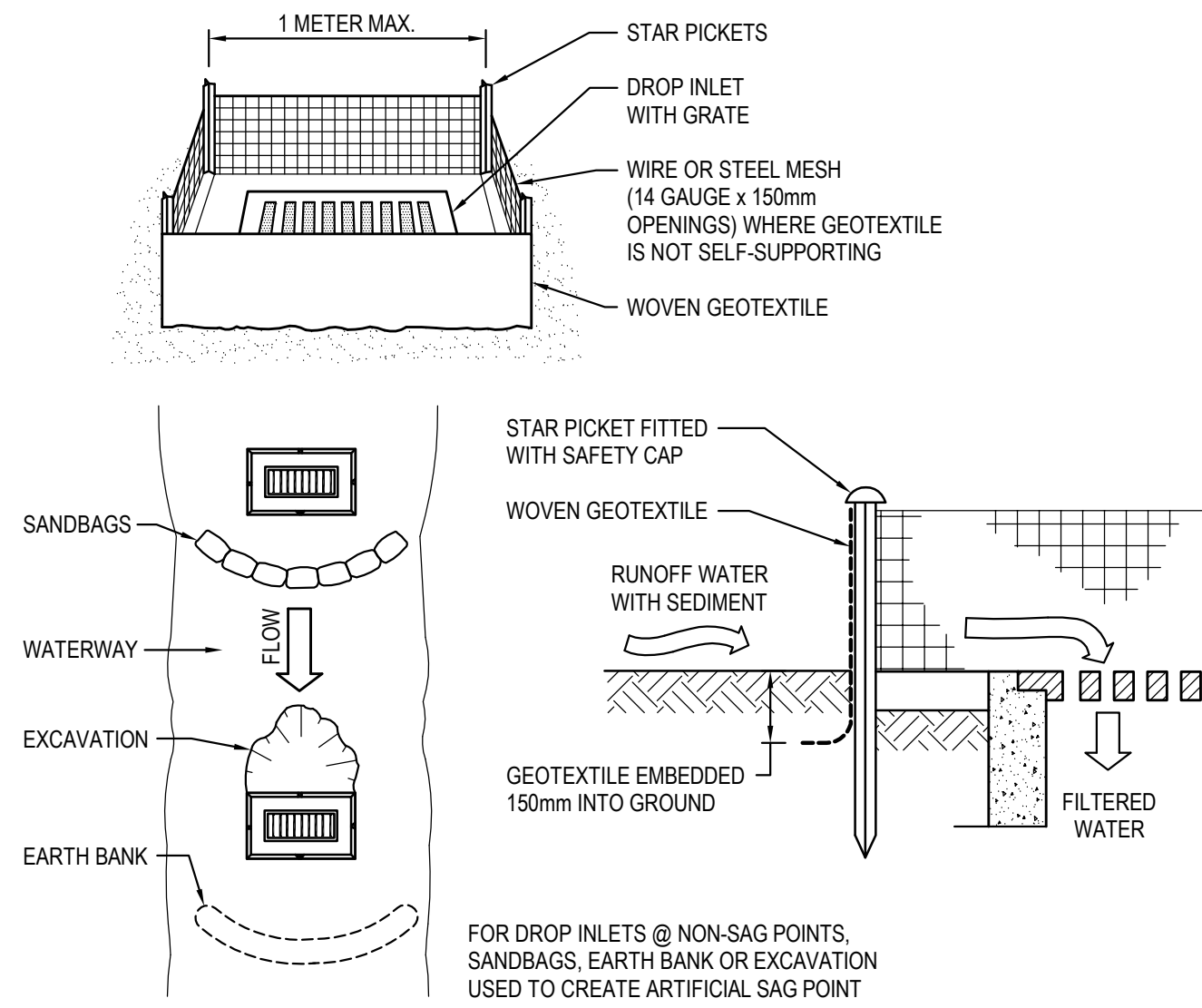
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|---|-------------------------------------|
|  | PROPOSED SEDIMENTATION FENCE |
|  | PROPOSED VEHICLE SHAKER GRID |
|  | PROPOSED STABILISED SITE ACCESS |
|  | PROPOSED STOCKPILE LOCATION |
|  | GEOTEXTILE INLET FILTER |
|  | PROPOSED MESH & GRAVEL INLET FILTER |

SEDIMENT & EROSION CONTROL PLAN

SCALE 1:500



FOR DA ONLY

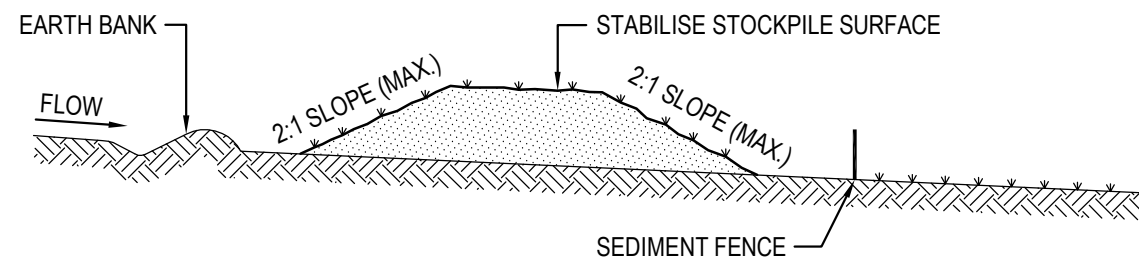


GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
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 GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S.



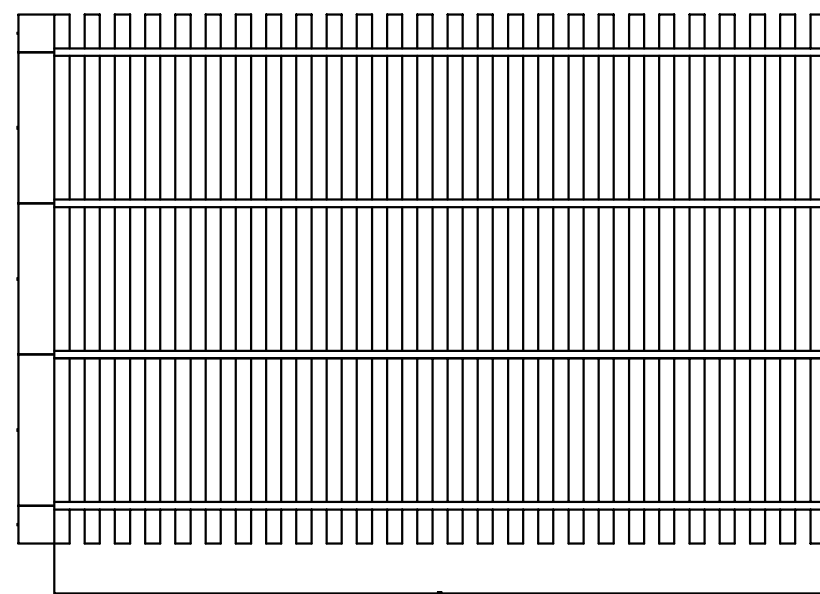
STOCKPILE CONSTRUCTION NOTES:

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 PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

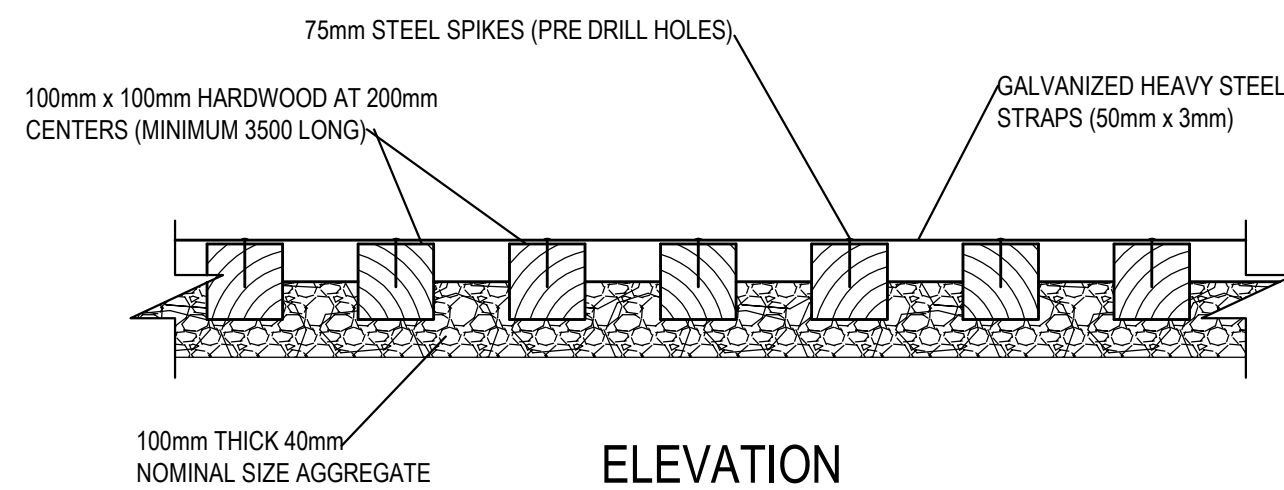
SCALE N.T.S.

- NOTES:
1. THIS DEVICE IS TO BE LOCATED AT ALL EXISTS FROM CONSTRUCTION SITE.
 2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
 3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40mm SIZE AGGREGATE.
 4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY 'HUMES CONCRETE' MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.



VEHICLE SHAKER GRID

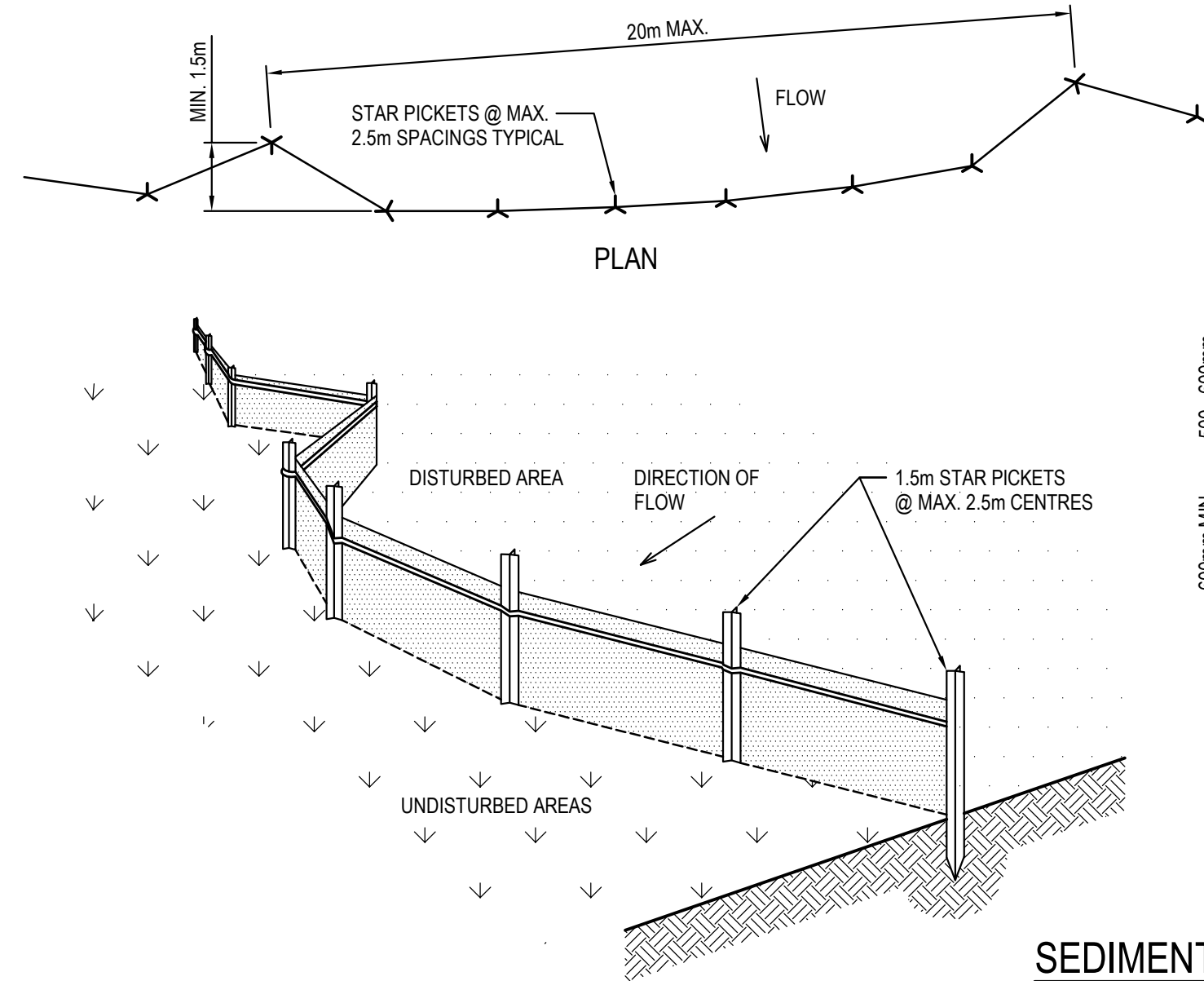
SCALE 1:50



VEHICLE SHAKER GRID

SCALE 1:10

VEHICLE SHAKER GRID

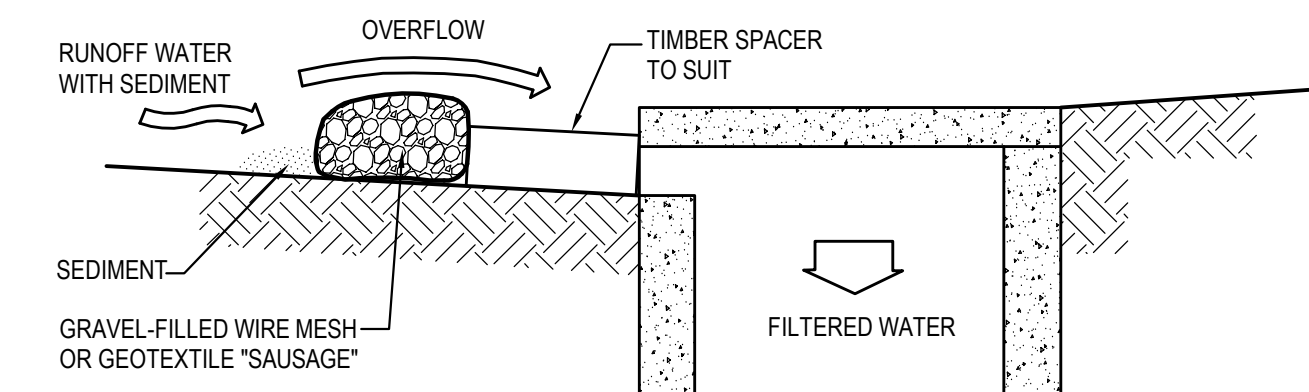
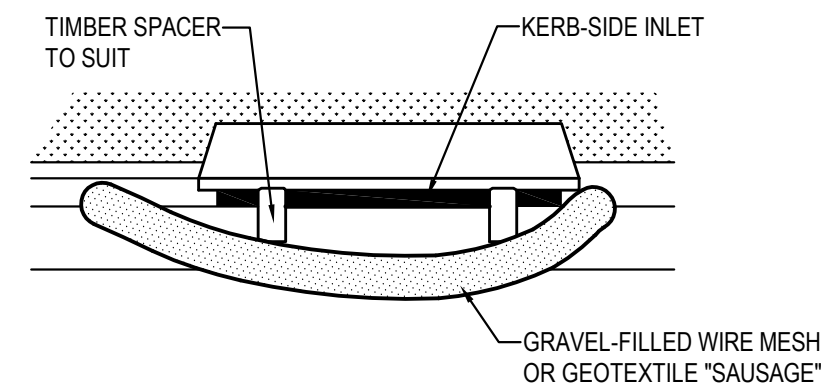


SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE 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 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m 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 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

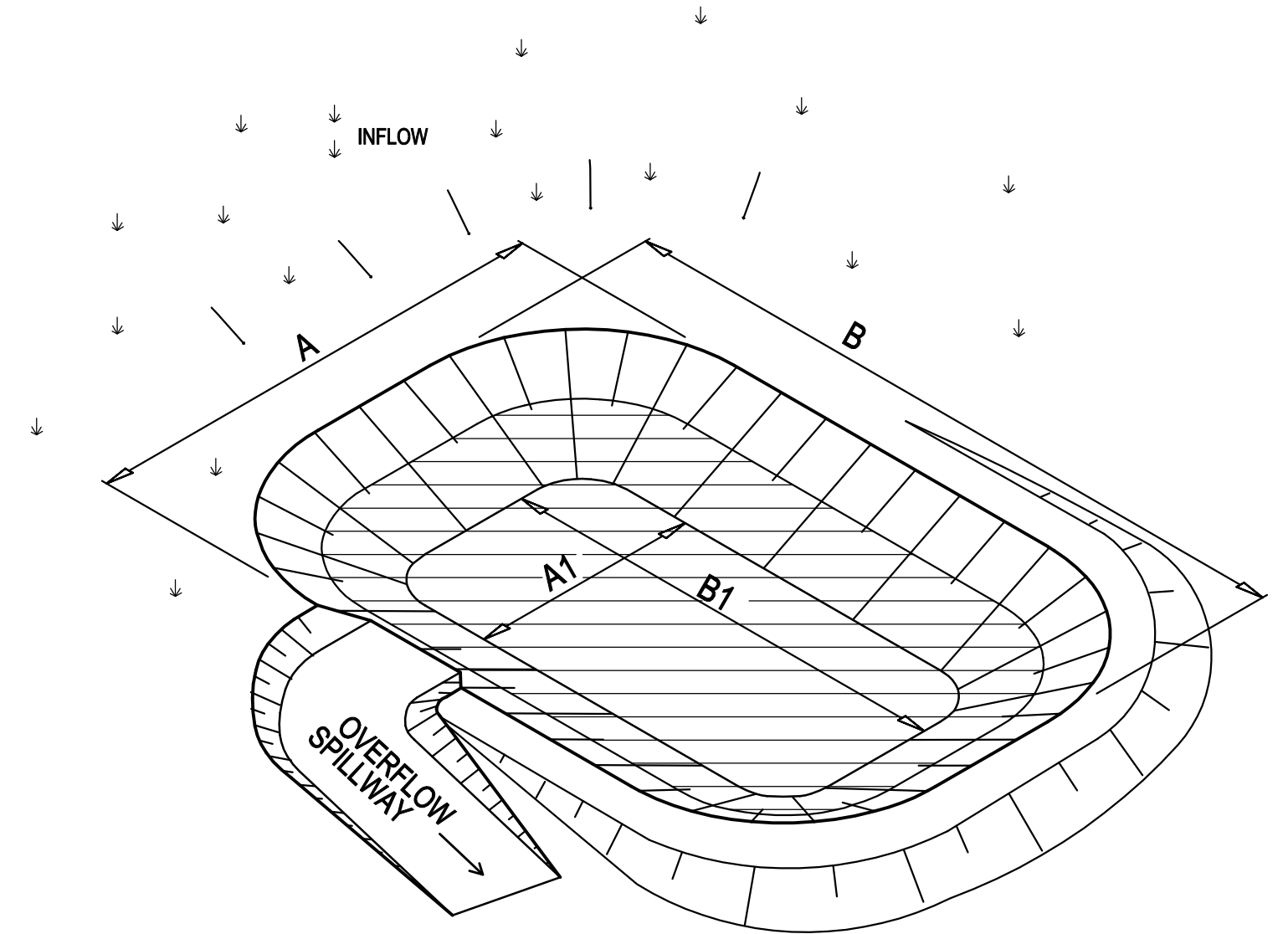


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

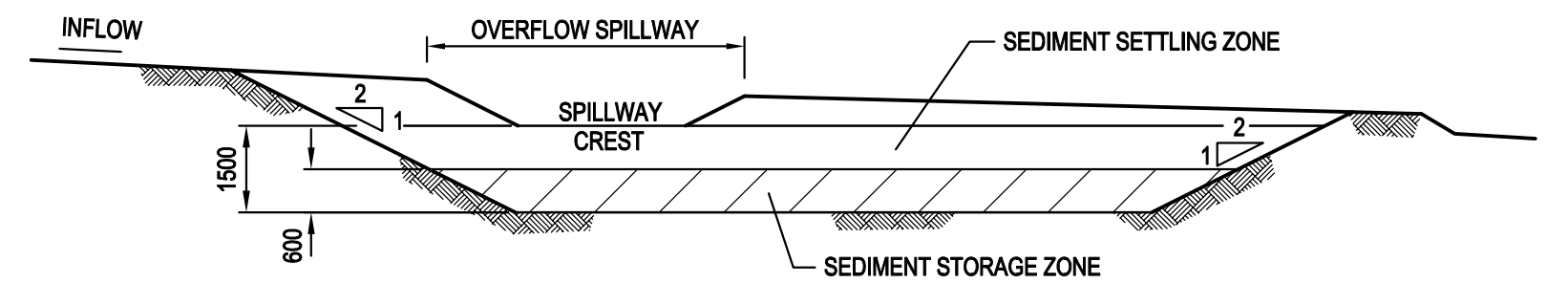
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

SCALE N.T.S.



PERSPECTIVE VIEW



TYPICAL SECTION

SEDIMENTATION BASIN

N.T.S.

TYPE 'D' SEDIMENTATION BASIN

N.T.S.

SEDIMENTATION BASIN CALCULATIONS: (FOR TYPE D SOILS) - PER 1 ha

BASIN CAPACITY = SETTLING ZONE + SEDIMENT STORAGE ZONE

SETTLING ZONE = $10 \times C_v \times A \times R(y \%ile, 5 \text{ day})$
= $10 \times 0.35 \times 1 \times 20.3$
= 71.05 m³/ha

and
SEDIMENT STORAGE ZONE = 50 %
SETTLING ZONE = 0.5 x 71.05 m³/ha
= 35.5 m³/ha

therefore
BASIN CAPACITY = 71.05 + 35.5 = 106.6 m³/ha

THE BASIN IS TO BE A SLOW SETTLING BASIN WITH A SLOW DISCHARGE TO THE LEVEL OF REQUIRED STORAGE CAPACITY. THIS WILL MEAN THAT SEDIMENT WILL SETTLE OVER A PERIOD OF APPROXIMATELY 5 DAYS.

FOR DA ONLY

| REVISION | AMENDMENT | DRAWN | DESIGNED | DATE | REVISION | AMENDMENT | DRAWN | DESIGNED | DATE |
|----------|-----------------------|---------|-----------|------------|----------|-----------|-------|----------|------|
| 02 | RE-ISSUED FOR DA ONLY | A.Levar | T.Dempsey | 08/03/2011 | | | | | |
| 01 | ISSUED FOR DA ONLY | A.Levar | T.Dempsey | 02/03/2011 | | | | | |

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|--|------------------------|
| Client | GOLDEN THINKING |
| Architect | VT ARCHITECTS PTY LTD. |
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| Project | 14, PARRAMATA ROAD, LIDCOMBE. PROPOSED INDUSTRIAL DEVELOPMENT |
| Title | SEDIMENT & EROSION CONTROL TYPICAL SECTIONS & DETAILS SHEET |

| | | |
|---------------------------------|-----------------------|-------------------|
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| Checked A.Francis | Approved A.Francis | Scale 1:250@A1 |
| Drawing number 11064_DA_SE02 | Revision 02 | |