DETAIL FOR ANCHORING ALONG TOP EDGE OF ARMOFLEX LINING: CONCRETE BEAM AND Y-FENCING STANDARDS

DETAIL 2 FOR ANCHORING ALONG TOP EDGE OF ARMOFLEX LINING: CONCRETE BEAM AND Y-FENCING STANDARDS

INTRODUCTION

1. TYPICAL PLAN

2. CHANNEL WITH ARMOFLEX LINING

3. PREPARATION OF EXPOSED SURFACES

   - The base of the canal will be prepared in accordance with the lines indicated on the detail drawings.
   - The finished level of the Armorflex blocks may not deviate more than 25mm on a 3m straight edge.

4. LAYING OF INTERLOCKING BLOCKS

   - The minimum amount of blocks should be cut along corners and bends. Laying shall always be in the interlocking pattern.
   - The cable ducts will be at right angles to the direction of water flow.

5. ANCHORING

   - Anchoring along the sides of the canal shall be anchored by means of Y-fencing standards driven into the ground every 2m along the edge of the canal.
   - Anchorings along the top edge of the Armorflex lining shall be according to Details 1 or 2, as specified.

6. EROSION PROTECTION

   - Geotextile shall be used to prevent erosion.
   - Soil shall be maintained during the duration of the contract by watering.

7. BACKFILLING AND GRASSING

   - Construction joints shall be provided at 5m centres along the length of the canal.
   - Erosion protection measures are to be factory produced from outside dimensions in millimeters.
   - The grass shall be maintained during the duration of the contract.

8. COLLECTOR DETAIL

   - The collector detail shall be approximately 17.1kg. The interlocked blocks shall have a unit mass of 180kg/m.

ARMOFLEX BLOCKS

- Armorflex blocks 180 or similar will be laid in accordance with this specification.
- Each block shall have a 28-day compressive strength of not less than 30MPa.
- The manufature of the blocks shall have a 28-day compressive strength of not less than 30MPa.
- Compressed concrete, with vertical holes and two horizontal cable ducts, is used in the manufacture of the blocks.

CONCRETE BEAM

- A 200 deep x 150 wide class 20/19 insitu concrete beam, anchored by means of Y-fencing standards driven into the ground every 2m along the edge of the canal.

OUTLET STRUCTURE

- Details for connection to culvert outlet structure shall be provided.
- Overlaps must at least be 250mm.

ANCHOR BEAM

- Details for connection to anchor beam shall be provided.
- The wires shall be run at right angles to the direction of flow.
- The length of the wires shall be sufficient to allow the exposed ends to be effectively jointed.
- The wires are to run at right angles to the direction of flow.
- The wires shall be of 3.1mm diameter hot-dipped galvanized fencing wire.
- The wire shall be used.
- The wires are to run at right angles to the direction of flow.

NOTES AND SPECIFICATIONS

- No individual block may protrude more than 10mm proud of any adjacent blocks.
- The canal shall be at least 400mm deep and 250mm wide. The concrete shall have a specified strength along a straight section of the canal.
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