

R – MISCELLANEOUS

1.0 FENCE AND GATE

Unless otherwise shown in the drawings, fencing shall be of the chain link type complying with BS 1722.

Unless otherwise stated the height of the fence shall be 2440mm from the ground up to the full height of the chain link.

The fence shall be erected to the extent and location as shown in the Drawings. Where fencing is to be located on the boundary of the site, the Contractor shall ensure that the construction shall not infringe the adjoining properties.

Unless otherwise shown in the Drawings mild steel angle posts shall of size 64mm x 64mm x 6.2mm. All steel members for fencing and gates shall be to the approval of the S.O. Previously used steel member shall not be used in the construction of new fencing and gates. Before delivery to site, the steel members for fencing and gates shall be pre-cut and assembled at Contractor's workshop and painted in accordance to Section Q.

Where 4 strands of barbed wire are required a mild steel angle arm 650mm long of the same cross sectional dimensions as the post shall be welded at the top of the post at 45 degrees inclination. Where 8 strands of barbed wire are required, two pieces of mild steel angle arm are specified herein before shall be welded to the top of each post forming the shape "Y" which each arm having 4 strands of barbed wire. The welding use shall be of continuous fillet weld. Necessary holes shall be made in the post, arms and bracings for insertions of fixing bolts and clips.

Chain link fencing shall be of 3.25mm (10 gauge) P.V.C. coated wire of core diameter 2.33mm and overall diameter of 3.25mm and of 64mm mesh size. The straining wire shall be of 3.71mm (9 gauge) diameter and barbed wire shall be of 2.64mm (12 gauge) diameter.

Unless otherwise shown in the Drawings, the mild steel angle posts shall be erected at every 3000mm centres commencing from the gate post and the post shall be embedded plumb in 1 : 3 : 6 mix concrete footings of size 300mm x 300mm x 600mm deep. Mild steel angle struts of size 51mm x 51mm x 6.0mm shall be fix at all corners, bends, junctions, gates posts and at every 5 bays of straight fencing.

The struts shall be fixed at inclination 60 degrees to the horizontal with the top end bolted to the post at the middle height of the post and the bottom end encased in concrete footing as described herein before.

The chain link mesh shall stretch across the posts and secured in place using approved fencing clips. The end of chain link fencing, abutting mild steel gates posts shall be fixed by means of 25mm x 5.0mm mild steel flat straps drawn through the mesh and bolted using 10mm diameter mild steel bolts. Where gate posts are non-

SYABAS' STANDARD SPECIFICATION FOR PIPE LAYING WORK

First Edition : May 2007

metal, the termination of the fencing at the gate shall be by means of another mild steel of angle post fixed to one side of the gate post and strengthened by struts as described herein before. The chain mesh shall be strained by 3 strands of 0.71mm (gauge) diameter galvanized steel straining wire threaded through the mesh and fixed to the posts.

Where shown in the drawings, the bottom of link mesh shall be buried in continuous concrete curbs of Grade 25 mix concrete. Unless detailed otherwise in the drawings, the cross-sectional dimension of curb shall be 100mm wide x 230mm high with 75mm protruding above the ground.

Gates shall be constructed as detailed in the Drawings.

All the posts, struts and gates shall be painted in accordance to Painting Work Specification.

2.0 MANHOLES AND VALVES CHAMBERS

Manholes and inspection chamber shall be constructed to the size shown on the Drawings. Unless otherwise specified, all dimensions on plan shall be inside measurement.

Unless otherwise shown in the Drawings all manholes and chambers shall be brickwork in the cement mortar 1:3. The brickwork shall be constructed on 1:2:4 concrete mix foundation unless shown otherwise. The thicknesses and sizes shall be as shown on the Drawings. The inside of the chambers and manholes shall be lined with 12mm thick cement render (1:3). Externally, the exposed concrete or block brick surfaces shall be rendered with 12mm cement and sand mortar (1:3) and terminated 150mm below the finished ground level. All internal angles shall be rounded off. Manholes and chambers shall be provided with pre-cast concrete cover unless otherwise specified on the Drawings. Approved type wrought iron steps shall

be built into the brick wall of all manholes and chambers of depth 0.5m or more and they shall be spaced not more than 300mm apart projecting 100mm over face of wall.

3.0 PRE-CAST CHAMBERS

Pre-cast valve chambers, unless otherwise specified, shall be as shown in the Drawings and in accordance to Concrete Work Specification.

4.0 WASHOUT

Washout shall be constructed at locations specified in sub-clause 8.5 of section C or as may be directed by the S.O. The washout branches shall be connected to the pipeline by special washout tees and sluice valves. From the washout sluice valves, MS pipe or uPVC pipes Class E shall be laid to the nearest drain or stream. The discharge point shall be downstream.

SYABAS' STANDARD SPECIFICATION FOR PIPE LAYING WORK

First Edition : May 2007

5.0 INDICATOR POST

The Contractor shall provide and fix ABS indicator posts close to the centre line of pipes, at valves, washout and other points as directed by the S.O. The details of indicator posts are shown in the Drawings.