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3 FENCES AND GATES

3.1 GENERAL

3.1.1 Scope

- 1 This Part specifies the requirements for fences and gates and for wind breaks.
- 2 Related Sections and Parts are as follows:

Section 5	Concrete
Section 6	Roadwork
Section 18	Carpentry, Joinery and Ironmongery

3.1.2 References

- 1 The following standards are referred to in this Part:
BS 729.....Hot dipped galvanized coatings on iron and steel articles (ISO 1461)
BS 1722Fences
BS 3470Field Gates and Posts

3.1.3 Submittals

- 1 Shop drawings are to be provided with layout of fences and gates with dimensions, details of all components, accessories, material finishes and post foundations.
- 2 The Contractor shall provide manufacturer's catalogues indicating proposed materials and components for approval by the Engineer.
- 3 The Contractor shall provide a colour selection for finishes designated and samples of materials (e.g., finials, caps, and accessories) if instructed by the Engineer.
- 4 The Contractor shall provide mock-ups if instructed by the Engineer.

3.2 FENCES

3.2.1 General Requirements

- 1 Fittings and dimensions of fences shall be as detailed in the Project Documentation.
- 2 Permanent gates shall generally be built in accordance with the relevant provisions of BS 1722 and as specified herein. Table 3.1 provides Part numbers of BS 1722 for all fencing types.

Table 3.1
Fencing Types in BS 1722

Part of BS 1722	Type of fencing
1	Chain link fences
2	Woven wire fences
3	Strained wire fences
4	Cleft chestnut pale fences
5	Close boarded fences
6	Wooden palisade fences
7	Wooden post and rail fences
8	Mild steel (low carbon steel) continuous bar fences
9	Mild steel (low carbon steel) fences with round or square verticals and flat posts and horizontals
10	Anti-intruder chain link fences
11	Woven wood and lap boarded panel fences
12	Steel palisade fences
13	Chain link fences for tennis court surrounds
14	Open mesh steel panel fences

3 Concrete for the surrounding the bases of fencing posts shall be in accordance with BS 1722 and shall comply with the relevant provisions of Section 5, Concrete.

4 All timber work for permanent fencing shall be given preservative treatment in accordance with the relevant provisions of BS 1722 and Section 18, Carpentry, Joinery and Ironmongery.

5 The Contractor shall provide calculations showing that the fence and its components can satisfactorily sustain a 3 second gust of 180 kph (50 m/s).

3.2.2 Chain Link Fences and Gates

1 Chain link fencing shall comply with the requirements of BS 1722 Part 1 and of Section 6, Roadworks.

3.2.3 Ornamental Metal Fences

1 Ornamental metal fences and gates shall comply with the relevant provisions of BS 1722 Parts 8, 9 and 12 and of Section 18, Carpentry, Joinery and Ironmongery.

3.2.4 Wire Fences

1 Wire fences shall comply with the relevant provisions of BS 1722 Parts 2 and 3 and of Section 18, Carpentry, Joinery and Ironmongery.

3.2.5 Wood Fences

1 Wood fences shall comply with the relevant provisions of BS 1722 Parts 4, 5, 6, 7 and 11 and of Section 18, Carpentry, Joinery and Ironmongery.

3.2.6 Open Mesh Steel Panel Fences

1 Open mesh steel panel fences shall comply with the relevant provisions of BS 1722 Part 14 and of Section 18, Carpentry, Joinery and Ironmongery.

3.2.7 Security Fences

- 1 Security fences shall comply with the relevant provisions of BS 1722 Part 10 and of Section 18, Carpentry, Joinery and Ironmongery.
- 2 Any additional requirement by the end user of security fencing shall also be complied with.

3.2.8 Tennis Court Fencing

- 1 Tennis court fences shall comply with the relevant provisions of BS 1722 Part 13 and of Section 18, Carpentry, Joinery and Ironmongery.

3.3 FIELD GATES

3.3.1 General Requirements

- 1 Fittings and dimensions for gates shall be as detailed in the Project Documentation.
- 2 Field gates, posts and fittings shall comply with the relevant provisions of BS 3470.
- 3 All timber for field gates and posts shall be given preservative treatment in accordance with the provisions of BS 3470 and Section 18, Carpentry, Joinery and Ironmongery.
- 4 All fittings and steel field gates and posts shall be hot dip galvanized in accordance with BS 729.

3.4 WIND BREAKS

3.4.1 General Requirements

- 1 Components, fittings and dimensions for wind breaks shall be as detailed in the Project Documentation.
- 2 The Contractor shall provide calculations showing that the wind break and its components can satisfactorily sustain the wind loads.

END OF PART