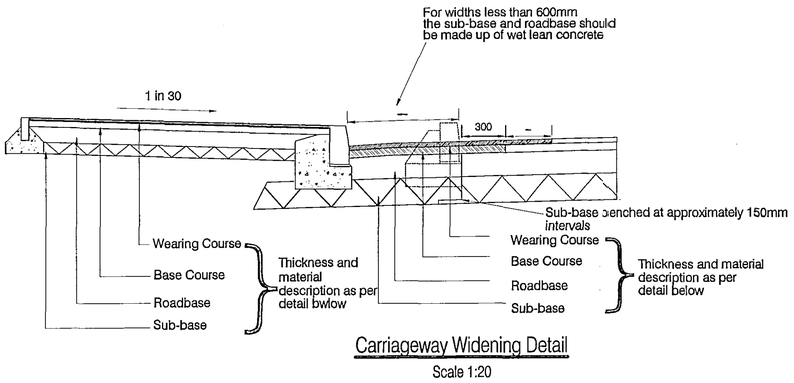
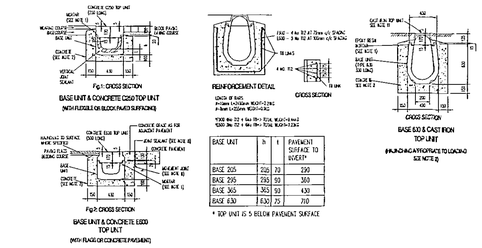
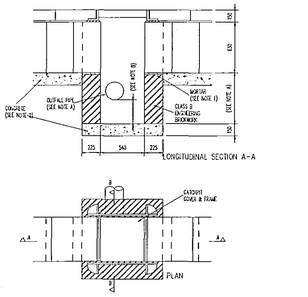
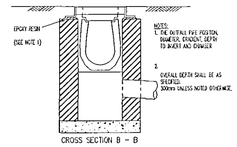


Carriageway Widening Detail

Scale 1:20

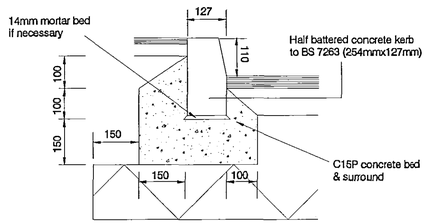






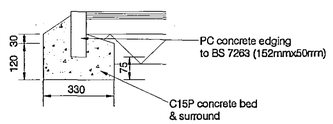
Notes for Max-E-channel Details Sheets

1. (i) Cement mortar shall be designation (i) in accordance with Clause 2404 or BS 5328:Part 3:1992
2. (ii) Epoxy mortars to be Marshalls' M Bond,
3. (iii) Base Block outfalls shall be bedded on Marshalls' Polysulphide sealant.
4. Concrete bed, haunch and surround shall be:
(i) Within footway or verge, Grade S11,
(ii) Within the carriageway or trafficked area, grade S14.
5. Standard mixes in accordance with clause 1001 or BS 5328:Part 2:1991.
6. Marshals' vertical joint sealant, M Seal, shall be applied to all Base Blocks.
7. Outfalls, Silt Traps and Access Covers with suffix J signify inclusion of the appropriate base Block Junction.
8. Where angle is less than 30°, Standard Base blocks may be cut to suit in lieu of bends.
9. Access Cover and Frames of the same depth as the top Units are available.
10. When used in conjunction with the Beany Block system, Max-E-Channel Base Blocks are the same as the Beany Block Bases.
11. For Base 630, all Outfalls, Silt Traps and Junctions should be formed in a brick cesspit.
12. Movement joint details that fully isolate the Max-E-Channel whilst maintaining restraint shall be provided adjacent to all concrete slabs even when the slab is covered by another material.
13. All dimensions are in millimeters.



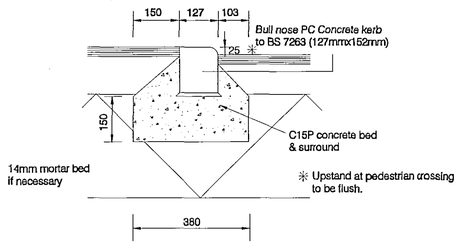
Half Battered Kerb Detail

1:10



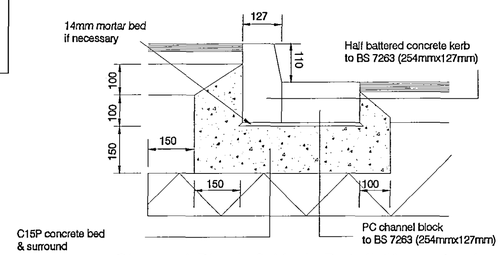
Footway Edging Detail

1:10



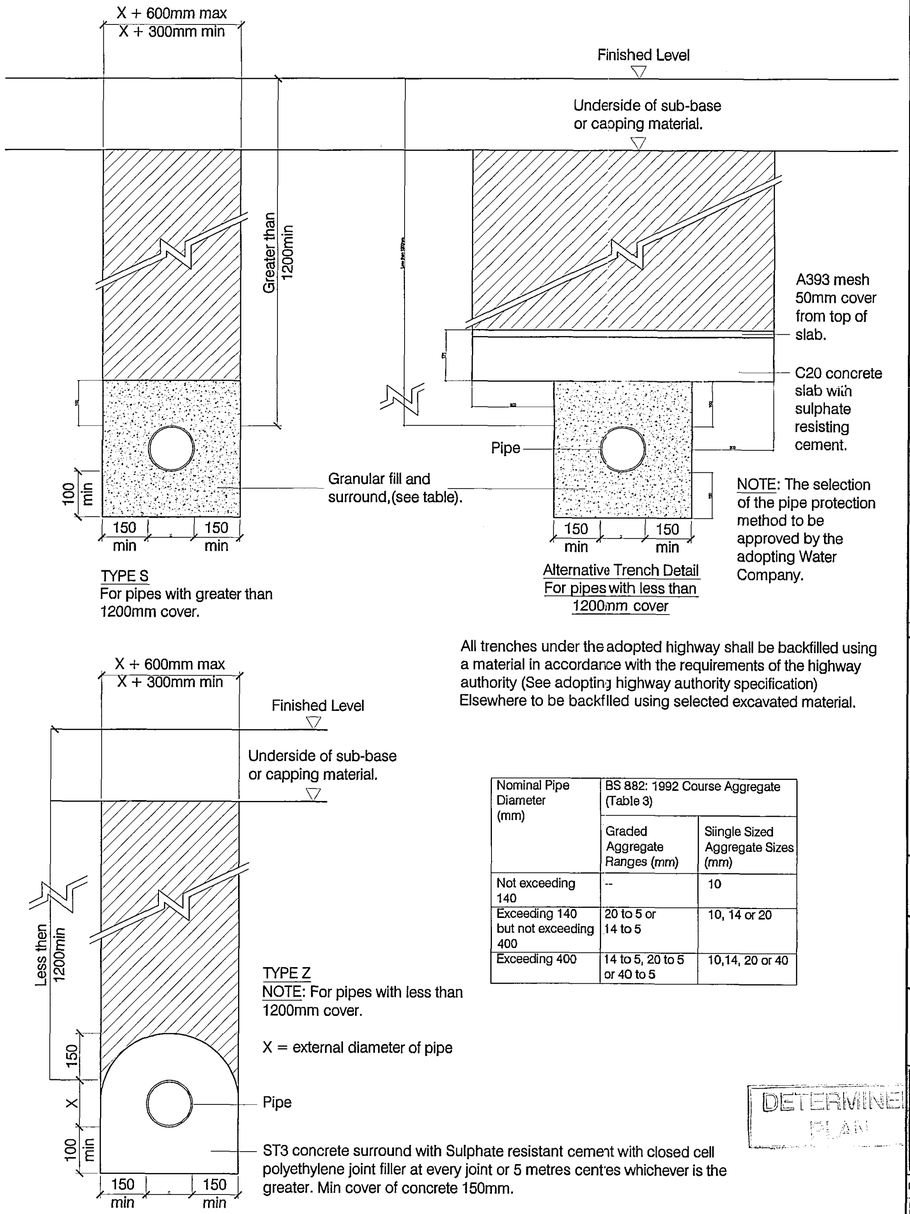
Bull Nose Kerb Detail

1:10



Channel Block & Kerb Detail (if required)

1:10



TYPE S
For pipes with greater than 1200mm cover.

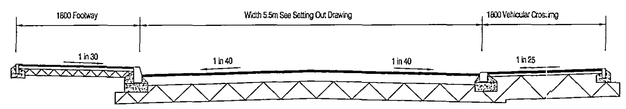
Alternative Trench Detail
For pipes with less than 1200mm cover

All trenches under the adopted highway shall be backfilled using a material in accordance with the requirements of the highway authority (See adopting highway authority specification)
Elsewhere to be backfilled using selected excavated material.

TYPE Z
NOTE: For pipes with less than 1200mm cover.

X = external diameter of pipe

Nominal Pipe Diameter (mm)	BS 882: 1992 Course Aggregate (Table 3)	
	Graded Aggregate Ranges (mm)	Slingle Sized Aggregate Sizes (mm)
Not exceeding 140	--	10
Exceeding 140 but not exceeding 400	20 to 5 or 14 to 5	10, 14 or 20
Exceeding 400	14 to 5, 20 to 5 or 40 to 5	10,14, 20 or 40



Major Access Road

Construction Chart 2

Roads up to 0.25 m.s.a MINIMUM DEPTH FLEXIBLE CONSTRUCTION

(See Clause 1.1.16)

Sub-Grade	Sub-Base	Surfacing			Total Thickness Required	
		Basecourse		Wearing Course		
Bearing Capacity (CBR)	Non-Frost Susceptible Type I	Subgrade Frost Susceptible	Sub Grade Non-Frost Susceptible		Subgrade Frost Susceptible	Sub Grade Non-Frost Susceptible
Less than 1.5% & soft spots	Note 2	200mm	190mm	40mm	Note 2	Note 2
1.5%	Note 2	200mm	190mm	40mm	Note 2	Note 2
2%	150mm	200mm	190mm	40mm	390mm	380mm
3%	150mm	200mm	190mm	40mm	390mm	350mm
4%	150mm	200mm	150mm	40mm	390mm	340mm
5%	150mm	200mm	140mm	40mm	390mm	330mm
6% - 15%	150mm	200mm	130mm	40mm	390mm	320mm
Above 15%	150mm	200mm	110mm	40mm	390mm	300mm

Note 1 See Clause 1.1.7
Note 2 See Clause 1.1.6
Requires at least 150mm type I Sub-base plus approved sub-soil improvement technique.

NOTES

1. DO NOT SCALE.

2. This drawing is to be read in conjunction with all other project drawings.

3. All dimensions are in millimetres unless otherwise stated.

4. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings BSP`s project Engineer shall be informed PRIOR to construction on site.

5. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should *the contractor commence site work prior to such prior* approval being given, it is entirely at his own risk.

6. All highways work to be in accordance with Lincolnshire County Council's Development Road Specification and Construction 1999.

7. All drainage to be constructed in accordance with Sewers For Adoption (5th edition).

8. Prior to commencing any drainage, the contractor shall check the inverts and sizes of all existing drainage, and inform the engineer if there is any variation with details indicated on this or any other relevant drawing.

9. The layout of pipelines, manholes etc. is designed to suit the permanent case.
Additional loads over & above those designed for may arise during the construction process. The Contractor shall provide any necessary temporary protection to ensure that pipelines, manholes etc. are not damaged as a result of his method of working.

10. Where products are specified they may be subsituted by a similar product from another manufacturer.

11. Any signage and line markings are to be provided at the discretion of the Area Highways manager. All signage and line markings must conform to the 'Traffic Signs Regulations and General Directions 2002'

12. Proposed street lighting to be designed by Lincolnshire County Council.

13. Proposed relocation of any existing street lighting columns and any additional columns to be agreed with Lincolnshire County Council.

14. The Contractor shall submit all proposals for temporary diversions of vehicular traffic, cyclists and pedestrians to the Engineer for approval. The proposals shall be in the form of drawings to indicate the proposed diversion routes and shall include all traffic management measures required by Chapter 8 of the Traffic Signs Manual, as appropriate.

15. Acces and egress from all properties adjacent to the works shall be maintained at all times unless otherwise agreed with the property occupiers and/or owners and approved by the Engineer.

16. *The site access arrangement is based on* BSP's drawing number 99087/100 Rev A as approved by Lincolnshire County Council.

SHDC Planning & Development 25 MAR 2004 Ref 0397/04

Rev.	Description	Date.	Drawn	Appr.

• CIVIL • STRUCTURAL • TRANSPORTATION • GEOTECHNICAL • ENVIRONMENTAL

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Drawing Status: FOR APPROVAL

Client: JOHN H KING (PROPERTIES) LTD

Project Title: A16/A151 JUNCTION (SOUTH EAST QUADRANT) SPALDING

Drawing Title: GENERAL CONSTRUCTION DETAILS FOR THE SITE ACCESS SECTION 278 WORKS

DETERMINED PLAN

Drawn By:	JAD	Checked By:	MWR	Scale:	NTS
Project Engineer:	JAD	Approved By:	MWR	Date:	SEPT 03

Drawing Number: 99087/202

Revision: