VOLUME 3 HIGHWAY CONSTRUCTION DETAILS

HIGHWAY CONSTRUCTION DETAILS

AMENDMENT NOVEMBER 2008

SUMMARY

This document contains the replacement pages and drawings for incorporation into the Highway Construction Details.

INSTRUCTIONS FOR USE

- Insert the replacement pages and drawings listed on the Amendments sheet (Amendment - November 2008), remove the corresponding existing pages and drawings, which are superseded by this amendment, and archive as appropriate. (Advice on archiving is given in Standard SD 0/08)
- 2. Insert the latest Amendments sheet dated November 2008 at the front of the document.
- 3. Enter details of Amendment November 2008 on the Registration of Amendments sheet, sign and date to confirm that the amendment has been incorporated.
- 4. Archive this sheet as appropriate.

Note: A quarterly index with a full set of Volume Contents Pages is available separately from The Stationery Office Ltd.

MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS

A BRIEF DESCRIPTION OF NOVEMBER 2008 AMENDMENTS

DOCUMENT	DESCRIPTION
Volume 3	Highway Construction Details (MCHW 3)
General	The user's attention is drawn to the following note which has been abstracted from Implementing Standard SD 26/08: "Contracts for which tenders are to be invited after 1 May 2009 shall incorporate by reference the amendments implemented by this Standard, except where the preparation of a contract has reached a stage at which in the opinion of the Overseeing Organisation use of the amendments would result in significant additional expense or delay progress." The user's attention is drawn to GD 03/08 (DMRB 0.2.2) Implementation and Use of the Standards Improvement System. This Standard superseded HD 34/03 which introduced the Standards Improvement System (SIS). SIS is a computerised database of reports generated from failures of specifications and design standards and other observations on these documents. The database records potential improvements using lists of components, symptoms, diagnoses and detailed
	descriptions. SIS is operated and maintained by the Highways Agency. Its prime objective is to improve the performance of the engineering standards and specifications published by the Highways Agency, both independently and jointly with other Overseeing Organisations. Feedback Arrangement
	To provide feedback on the Highways Agency's standards and specifications, please use this link: http://www.highways-net.co.uk/information/dmrbaccess.asp
Section 1 Series D Drawings Carriageway Markings for Rural Motorways	Drawing Nos. D1 Issue C, D2 Issue D, D5 Issue E and D6 Issue D: 1. White studs are amended from 'bidrectional' to 'unidirectional'.

VOLUME 3

Manual of Contract Documents for Highway Works

Amendment - November 2008 to Volume 3 - Highway Construction Details

Replace existing pages: i/ii and vii/viii with new pages i/ii and vii/viii

For Series D: remove existing pages D1 to D2 and D5 to D6 and replace with new pages D1 to D2 and D5 to D6

Publisher's Note

1. The Specification for Highway Works and its Notes for Guidance to which the Highway Construction Details relate are published by The Stationery Office in Volumes 1 and 2 of the Manual of Contract Documents for Highway Works, and are for use in Highway Works Contracts.

2. The Method of Measurement for Highway Works and a Library of Standard Item Descriptions to which the Highway Construction Details relate are published by The Stationery Office in Volume 4 of the Manual of Contract Documents for Highway Works.

VOLUME 3 (with continuation binder 3a)

HIGHWAY CONSTRUCTION DETAILS

Section 1 Carriageway and Other Details

Drawings dated December 1991, August 1993, August 1994 and March 1998

Series A drawings (Highway Cross Sections) have been superseded by TD 27/96 in DMRB Volume 6

Amendment dated March 1999 - revision B to drawing D5

Amendment dated May 2001 - revisions to Series C, D, F, H and K drawings

Amendment dated May 2002 - revisions to Series B, C, G, I and K drawings

Amendment dated February 2003 - revisions to Series G drawings

Amendment dated August 2003 - revisions to Series D drawings

Amendment dated November 2003 - revisions to Series F and G drawings

Amendment dated May 2004 - revisions to Series B, C, E, G, H, I and K drawings

Amendment dated November 2004 - revisions to Series B and F drawings

Amendment dated May 2005 - revisions to Series F drawings

Amendment dated November 2005 - revisions to Series G drawings

Amendment dated May 2006 - revisions to Series B, C and F drawings

Amendment dated November 2006 - revisions to Series E and H drawings

Amendment dated November 2008 - revisions to Series D drawings

Section 2 Not Used (05/04)

Section 3 National Motorway Communications System Installation Drawings

Amendment dated May 2002 - revised all the National Motorway Communications System Installation Drawings which were introduced in the Amendment dated May 2001.

Amendment dated February 2003 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated August 2003 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated November 2003 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated May 2004 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated November 2004 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated May 2005 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated November 2005 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated May 2006 - revisions to the National Motorway Communications System Installation Drawings

Amendment dated November 2006 - revisions to the National Motorway Communications System Installation Drawings

Amendment No.	Page/Drg No.	Signature & Date of Incorporation of Amendment	Amendment No.	Page/Drg No.	Signature & Date of Incorporation of Amendment

REGISTRATION OF AMENDMENTS

SCHEDULE OF NUMBERED PAGES AND RELEVANT PUBLICATION DATES

		Page Number	Publication Date
Introduction		1	March 1998
List of Drawings	Section 1	2 3 4 5 6 7 8 9 10 11 12	March 1998 May 2004 May 2006 May 2001 May 2001 November 2005 May 2001 May 2002 December 1991 May 2001
	Section 2 Section 3	 13 to 14 inclusive Not Used 15 to 18 inclusive 19 to 20 inclusive 21 22 to 25 inclusive 26 to 27 inclusive 28 	May 2004 May 2006 May 2004 May 2006 May 2004 May 2006 November 2005

Series	Drawing Number	Issue	Publication Date
А	Not Used		
В	B1 B2 B3 B4 to B5 inclusive B6 to B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 to B17 inclusive B18	B B C C C B C F C D C E B C C C	May 2006 August 1993 May 2002 May 2006 May 2002 May 2006 May 2006 May 2006 May 2006 May 2002 May 2002 May 2002 May 2004 March 1998 May 2004 May 2004
C	C1 C2 C3 to C4 inclusive C5 C6 C7/1, C7/2, C7/3 C8/1, C8/2 C9 C10/1, C10/2 C11 C12 to C15 inclusive C16 C17 C18 C19 C20 C21 to C22 inclusive C23 C24 C25 C26	E C E C B E C B B C B C B C E C C E C C D C C B	May 2006 May 2006 May 2006 May 2006 May 2006 May 2006 May 2006 May 2006 March 1998 May 2006 May 2006
D	D1 D2 D3 to D4 inclusive D5 D6 (D7 Not Used)	C D C E D	November 2008 November 2008 August 2003 November 2008 November 2008
Е	E1 E2 E3 E4 to E5 inclusive	A B B B	December 1991 November 2006 August 1993 May 2004

SCHEDULE OF DRAWINGS - SECTION 1 AND RELEVANT PUBLICATION DATES

Series	Drawing Number	Issue	Publication Date
F	F1	А	December 1991
	F2	C	November 2003
	F3	E	May 2006
	F4	E	May 2006
	F5 to F6 inclusive	F	November 2004
	F7	E	May 2006
	(F8 Not Used)		
	F9	В	May 2001
	F10	C	November 2003
	F11 to F12 inclusive	F	May 2006
	F13 to F14 inclusive	E	May 2006
	F15	C	November 2004
	F16	В	November 2004
	F17	A	March 1998
	F18 to F21 inclusive	A	December 1991
	F22 to F23 inclusive	В	November 2003
	F24	C	November 2004
	F25 to F26 inclusive	C	May 2006
	F27	C	November 2004
	F28	В	November 2003
G	G1	Е	November 2005
	G2	D	November 2005
	G3 to G4 inclusive	E	November 2005
	G5	D	November 2005
	G6	C	November 2005
	G7	G	November 2005
	G8 to G12 inclusive	E	November 2005
	G13	F	November 2005
	G14 to G15 inclusive	D	November 2005
	G16	F	November 2005
	G17	E	November 2005
	G18 to G22 inclusive	D	November 2005
	G23	E	November 2005
	G24	D	November 2005
	G25 to G28 inclusive	C	November 2005
	G29 to G30 inclusive	D	November 2005
	G31 to G32 inclusive	C	November 2005

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Series	Drawing Number	Issue	Publication Date
Н	H1	С	May 2004
	H2	В	May 2004
	H3	D	May 2004
	H4	C	May 2004
	Н5	D	May 2004
	Н6	C	May 2004
	H7	A	December 1991
	H8	В	May 2001
	H9 to H10 inclusive	A	December 1991
	H11	D	May 2004
	H12	В	August 1993
	H13 to H14 inclusive	Е	May 2004
	H15	D	May 2004
	H16	C	May 2004
	H17 to H25 inclusive	В	May 2004
	H26	В	May 2001
	H27 to H33 inclusive	A	December 1991
	H34 to H35 inclusive	C	May 2004
	H36	В	November 2006
	H37	A	December 1991
	H38	В	March 1998
	H39 to H48	A	May 2001
Ι	I1 to I2 inclusive	В	May 2004
	I3 to I5 inclusive	Α	May 2002
J	J1	А	December 1991
К	K1 to K3 inclusive	A	December 1991
	K4	C	May 2004
	K5	А	May 2001

SECTION 2 (Not Used)

Amendment - May 2004

Series	Drawing Number	Issue	Publication Date
MCX	(MCX 0000 to MCX 0068 not used)		
IVICA	MCX 0000 to MCX 0008 not used) MCX 0069 Sheet 1	Н	May 2006
	MCX 0009 Sheet 1 MCX 0069 Sheet 2 to Sheet 7 inclusive	F	May 2006
	(MCX 000) Sheet 2 to Sheet 7 menusive (MCX 0070 to MCX 0130 not used)	1	May 2000
	MCX 0131 Sheet 1	Ν	May 2006
	MCX 0131 Sheet 2 to Sheet 3 inclusive	H	May 2006
	MCX 0132 Sheet 1	N	May 2006
	MCX 0132 Sheet 2	P	May 2006
	MCX 0132 Sheet 3	J	May 2006
	MCX 0132 Sheet 4 to Sheet 5 inclusive	K	May 2006
	MCX 0132 Sheet 6	F	May 2006
	MCX 0132 Sheet 7 to Sheet 8 inclusive	D	May 2006
	(MCX 0133 not used)		
	MCX 0134 Sheet 1	Ν	May 2006
	MCX 0135 Sheet 1	J	May 2006
	MCX 0135 Sheet 2	H	May 2006
	MCX 0135 Sheet 3	G	May 2006
	MCX 0135 Sheet 4	F	May 2006
	(MCX 0136 not used)		
	MCX 0137 Sheet 1	K	May 2006
	MCX 0138 Sheet 1	Ν	November 2005
	MCX 0138 Sheet 2	G	May 2004
	MCX 0139 Sheet 1	K	May 2006
	MCX 0140 Sheet 1	S	November 2005
	MCX 0141 Sheet 1	Р	February 2003
	MCX 0142 Sheet 1	М	May 2006
	MCX 0142 Sheet 2	L	May 2006
	MCX 0142 Sheet 3	K	May 2006
	MCX 0142 Sheet 4	J	May 2006
	MCX 0143 Sheet 1	R	November 2005
	MCX 0144 Sheet 1 to Sheet 2 inclusive	J	November 2003
	MCX 0144 Sheet 3	F	May 2004
	MCX 0144 Sheet 4	Е	May 2004
	MCX 0145 Sheet 1	S	May 2006
	MCX 0145 Sheet 2	L	November 2003
	MCX 0145 Sheet 3	G	May 2002
	MCX 0145 Sheet 4	L	May 2006
	MCX 0145 Sheet 5	F	May 2006
	MCX 0146 Sheet 1	L	February 2003
	MCX 0147 Sheet 1	N	May 2006
	MCX 0147 Sheet 2	K	May 2006
	(MCX 0148 not used)		
	MCX 0149 Sheet 1	Н	May 2006
	MCX 0149 Sheet 2	G	May 2006
	MCX 0150 Sheet 1	Н	May 2006
	MCX 0151 Sheet 1	L	May 2006
	MCX 0151 Sheet 2	K	May 2006
	MCX 0151 Sheet 3	L	May 2006
	MCX 0151 Sheet 4 to Sheet 5 inclusive	H	May 2006
	MCX 0151 Sheet 6	F	May 2006
	MCX 0151 Sheet 7	G	May 2006
	MCX 0151 Sheet 8	C	May 2006

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Series	Drawing Number	Issue	Publication Date
MCX	MCX 0152 Sheet 1	M	May 2006
	MCX 0152 Sheet 2	H	May 2006
	MCX 0153 Sheet 1	M	November 2005
	MCX 0153 Sheet 2	F	November 2005
	MCX 0154 Sheet 1	N	May 2006
	(MCX 0155 not used)		
	MCX 0156 Sheet 1	S	May 2006
	MCX 0156 Sheet 2	Р	May 2006
	MCX 0156 Sheet 3	N	May 2006
	MCX 0156 Sheet 4	Q	May 2006
	MCX 0156 Sheet 5	K	May 2006
	MCX 0157 Sheet 1	J	May 2006
	MCX 0157 Sheet 2	Н	May 2006
	MCX 0157 Sheet 3	J	May 2006
	MCX 0157 Sheet 4	Н	May 2006
	MCX 0157 Sheet 5	J	May 2006
	MCX 0157 Sheet 6	G	May 2006
	(MCX 0158 to MCX 0159 not used)		
	MCX 0160 Sheet 1	L	May 2004
	(MCX 0161 to MCX 0162 not used)		
	MCX 0163 Sheet 1	J	May 2006
	MCX 0164 Sheet 1	J	May 2004
	MCX 0164 Sheet 2	L	May 2006
	MCX 0164 Sheet 3	J	May 2006
	MCX 0164 Sheet 4	A	May 2004
	MCX 0165 Sheet 1	Н	May 2006
	MCX 0105 Sheet 1 MCX 0165 Sheet 2	K	May 2006
	MCX 0165 Sheet 3	Н	May 2006
	MCX 0105 Sheet 9 MCX 0165 Sheet 4	D	May 2006
	(MCX 0166 to MCX 0169 not used)	D	Way 2000
	MCX 0170 Sheet 1	М	May 2006
	MCX 0170 Sheet 1 MCX 0170 Sheet 2	N	
			May 2006
	MCX 0170 Sheet 3	J	May 2006
	MCX 0170 Sheet 4 to Sheet 5 inclusive	E	May 2006
	MCX 0170 Sheet 6	D	May 2006
	MCX 0170 Sheet 7 to Sheet 8 inclusive	E	May 2006
	MCX 0170 Sheet 9	D	May 2006
	MCX 0171 Sheet 1	J	February 2003
	MCX 0171 Sheet 2	F	May 2006
	(MCX 0172 to MCX 0305 not used)		
	MCX 0306 Sheet 1 to Sheet 2 inclusive	J	May 2006
	MCX 0306 Sheet 3	Н	May 2006
	(MCX 0307 to MCX 0336 not used)		
	MCX 0337 Sheet 1	S	May 2006
	MCX 0337 Sheet 2	J	May 2006
	MCX 0337 Sheet 3	G	May 2006
	MCX 0337 Sheet 4	F	May 2006
	MCX 0337 Sheet 5	K	May 2006
	MCX 0337 Sheet 6	Н	May 2006
	MCX 0337 Sheet 7 to Sheet 8 inclusive	F	May 2006
	MCX 0337 Sheet 9 to Sheet 10 inclusive	D	May 2006
	MCX 0037 Sheet 11	C	May 2006
		1	,

Series	AND RELEVANT PUBLICAT	Issue	Publication Date
	Drawing Number	Issue	Publication Date
MCX	(MCX 0338 not used)		
	MCX 0339 Sheet 1 to Sheet 2 inclusive	K	May 2006
	MCX 0339 Sheet 3	G	May 2006
	MCX 0339 Sheet 4	F	May 2006
	(MCX 0340 to MCX 0425 not used)		
	MCX 0426 Sheet 1 to Sheet 2 inclusive	Н	May 2006
	(MCX 0427 to MCX 0485 not used)		
	MCX 0486 Sheet 1	Н	May 2006
	MCX 0486 Sheet 2	F	May 2006
	(MCX 0487 to MCX 0488 not used)		
	MCX 0489 Sheet 1	G	May 2006
	MCX 0489 Sheet 2	J	May 2006
	MCX 0489 Sheet 3	Н	May 2006
	MCX 0489 Sheet 4	F	May 2006
	MCX 0489 Sheet 5 to Sheet 6 inclusive	J	May 2006
	MCX 0489 Sheet 7	В	May 2006
	MCX 0490 Sheet 1 to Sheet 2 inclusive	J	May 2004
	MCX 0490 Sheet 3	K	November 2005
	MCX 0490 Sheet 4	Ν	November 2005
	MCX 0490 Sheet 5	L	May 2006
	(MCX 0491 to MCX 0508 not used)		
	MCX 0509 Sheet 1	D	May 2006
	MCX 0509 Sheet 2	F	May 2006
	(MCX 0510 to MCX 0514 not used)		
	MCX 0515 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	(MCX 0516 to MCX 0541 not used)		
	MCX 0542 Sheet 1 to Sheet 4 inclusive	G	May 2006
	MCX 0543 Sheet 1	G	May 2006
	(MCX 0544 to MCX 0551 not used)		
	MCX 0552 Sheet 1 to Sheet 2 inclusive	Е	May 2006
	(MCX 0553 to MCX 0559 not used)		
	MCX 0560 Sheet 1	F	May 2006
	(MCX 0561 to MCX 0564 not used)		
	MCX 0565 Sheet 1	F	May 2006
	MCX 0566 Sheet 1	F	February 2003
	(MCX 0567 to MCX 0574 not used)		
	MCX 0575 Sheet 1	F	November 2003
	(MCX 0576 to MCX 0581 not used)		
	MCX 0582 Sheet 1	K	May 2005
	MCX 0582 Sheet 2	Е	May 2005
	MCX 0582 Sheet 3	D	May 2004
	MCX 0583 Sheet 1	K	February 2003
	MCX 0583 Sheet 2	J	February 2003
	MCX 0583 Sheet 3 to Sheet 4 inclusive	K	May 2006
	MCX 0583 Sheet 5	Е	February 2003
	MCX 0583 Sheet 6 to Sheet 7 inclusive	Е	May 2006
	MCX 0583 Sheet 8	G	May 2006
	MCX 0583 Sheet 9	D	May 2006
	MCX 0583 Sheet 10 to Sheet 11 inclusive	Е	May 2006
	MCX 0583 Sheet 12	В	May 2006
	MCX 0584 Sheet 1	L	May 2006
	MCX 0584 Sheet 2	K	May 2006
	MCX 0584 Sheet 3 to Sheet 5 inclusive	L	November 2003
	MCX 0584 Sheet 6	J	May 2006
	MCX 0584 Sheet 7	K	May 2006
	1	1	

Series	Drawing Number	Issue	Publication Date
MCX	MCX 0584 Sheet 8	Н	February 2003
	MCX 0584 Sheet 9	Н	May 2006
	MCX 0584 Sheet 10	J	May 2006
	(MCX 0585 to MCX 0586 not used)		
	MCX 0587 Sheet 1 to Sheet 3	D	May 2006
	MCX 0587 Sheet 4	C	May 2006
	(MCX 0588 to MCX 0589 not used)		
	MCX 0590 Sheet 1	Н	May 2006
	MCX 0591 Sheet 1	Н	May 2006
	MCX 0592 Sheet 1	G	May 2006
	MCX 0592 Sheet 2 to Sheet 4 inclusive	E	November 2005
	(MCX 0593 not used)		
	MCX 0594 Sheet 1 to Sheet 2 inclusive	G	May 2006
	MCX 0594 Sheet 3	G	November 2005
	MCX 0594 Sheet 4	Č	May 2006
	(MCX 0595 to MCX 0601 not used)		
	MCX 0602 Sheet 1 to Sheet 2 inclusive	Е	May 2006
	(MCX 0602 sheet 1 to sheet 2 metasive (MCX 0603 to MCX 0722 not used)		1114y 2000
	MCX 0723 Sheet 1	Е	November 2005
	MCX 0723 Sheet 1 MCX 0723 Sheet 2	D	February 2003
	MCX 0723 Sheet 3	D	May 2006
	(MCX 0724 to MCX 0799 not used)		1111 2000
	MCX 0800 Sheet 1 to Sheet 2	G	November 2005
	MCX 0800 Sheet 3	E	February 2003
	MCX 0801 Sheet 1 to Sheet 3 inclusive	H	May 2006
	MCX 0801 Sheet 4	H	November 2005
	MCX 0801 Sheet 5	H	May 2006
	MCX 0802 Sheet 1	F	May 2006
	(MCX 0803 to MCX 0809 not used)	_	
	MCX 0810 Sheet 1	F	May 2004
	MCX 0810 Sheet 2	F	February 2003
	MCX 0810 Sheet 3	D	May 2006
	MCX 0811 Sheet 1	Ē	May 2006
	MCX 0811 Sheet 2 to 3 inclusive	G	November 2005
	MCX 0811 Sheet 4	F	May 2006
	MCX 0812 Sheet 1	F	November 2005
	MCX 0812 Sheet 2	G	November 2005
	MCX 0813 Sheet 1	G	November 2003
	MCX 0814 Sheet 1 to Sheet 2 inclusive	F	February 2003
	MCX 0814 Sheet 3	F	May 2004
	MCX 0814 Sheet 4	F	February 2003
	MCX 0814 Sheet 5	F	May 2006
	MCX 0815 Sheet 1	H	November 2004
	MCX 0815 Sheet 2	F	February 2003
	MCX 0815 Sheet 3 to Sheet 4 inclusive	H	November 2004
	(MCX 0816 to MCX 0819 not used)		
	MCX 0820 Sheet 1	Е	May 2006
	MCX 0821 Sheet 1 to Sheet 3 inclusive	F	
	MCX 0821 Sheet 4	F	-
	MCX 0822 Sheet 1	G	
	MCX 0822 Sheet 2 to Sheet 4 inclusive	F	May 2006
	MCX 0822 Sheet 5	Н	May 2006
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	MCX 0821 Sheet 1 to Sheet 3 inclusive MCX 0821 Sheet 4 MCX 0822 Sheet 1 MCX 0822 Sheet 2 to Sheet 4 inclusive MCX 0822 Sheet 5	F F G F H	May 2006 February 2003 May 2006 May 2006 May 2006

Series	Drawing Number	Issue	Publication Date
MCX	MCX 0823 Sheet 1	Е	May 2006
	MCX 0823 Sheet 2	F	February 2003
	MCX 0823 Sheet 3	Н	May 2006
	MCX 0823 Sheet 4	F	May 2006
	MCX 0824 Sheet 1	Е	May 2006
	(MCX 0825 to MCX 0829 not used)		-
	MCX 0830 Sheet 1	Е	February 2003
	MCX 0831 Sheet 1	F	May 2006
	MCX 0832 Sheet 1	Н	May 2006
	MCX 0832 Sheet 2	Е	May 2006
	MCX 0833 Sheet 1	F	February 2003
	MCX 0833 Sheet 2	Е	February 2003
	MCX 0834 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	MCX 0834 Sheet 4 to Sheet 6 inclusive	Е	November 2005
	MCX 0834 Sheet 7 to Sheet 10 inclusive	F	May 2006
	(MCX 0835 to MCX 0850 not used)		
	MCX 0851 Sheet 1	Е	May 2006
	MCX 0851 Sheet 2	F	May 2006
	MCX 0851 Sheet 3 to Sheet 4 inclusive	Е	May 2006
	MCX 0852 Sheet 1	F	May 2006
	MCX 0853 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	MCX 0854 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	(MCX 0855 to MCX 0860 not used)		-
	MCX 0861 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	MCX 0862 Sheet 1 to Sheet 3 inclusive	Е	May 2006
	MCX 0863 Sheet 1	F	May 2006
	MCX 0864 Sheet 1	F	May 2006
	MCX 0864 Sheet 2 to Sheet 3 inclusive	Е	May 2004
	MCX 0864 Sheet 4	G	May 2004
	MCX 0864 Sheet 5	Е	May 2004
	MCX 0864 Sheet 6	F	May 2004
	MCX 0864 Sheet 7	G	May 2006
	(MCX 0865 to MCX 0870 not used)		
	MCX 0871 Sheet 1	F	May 2006
	MCX 0871 Sheet 2 to Sheet 3 inclusive	Е	May 2006
	MCX 0872 Sheet 1	Е	May 2006
	MCX 0873 Sheet 1	F	May 2006
	MCX 0873 Sheet 2	D	May 2006
	(MCX 0874 to MCX 0898 not used)		-
	MCX 0899 Sheet 1	F	May 2006
	(MCX 0900 to MCX 1021 not used)		
	MCX 1022 Sheet 1 to Sheet 3	В	May 2006
	MCX 1022 Sheet 4	С	May 2006
	MCX 1022 Sheet 5	В	May 2006
	(MCX 1023 to MCX 1025 not used)		
	MCX 1026 Sheet 1	В	November 2006
	MCX 1026 Sheet 2 to Sheet 4 inclusive	А	February 2003
	(MCX 1027 to MCX 1029 not used)		
	MCX 1030 Sheet 1 to Sheet 10 inclusive	В	November 2005
	MCX 1030 Sheet 11 to Sheet 18 inclusive	A	November 2005

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HIGHWAY CONSTRUCTION DETAILS

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Series A	Not Used
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Series C	Concrete Carriageway
Series D	Carriageway Markings for Rural
	Motorways
Series E	Distance Marker Posts
Series F	Drainage
Series G	Loop Detectors
Series H	Fences, Stiles and Gates
Series I	Underground Cable Ducts
Series J	Flexible Composite Carriageway
Series K	Miscellaneous
Section 2:	Not Used (05/04)
Section 3:	National Motorway Communications System
Series MCX	Installation Drawings

Introduction

- 1. The Highway Construction Details (HCD) is published as Volume 3 of the Manual of Contract Documents for Highway Works and contains standard drawings for use in the construction, improvement and maintenance of trunk roads.
- 2. The numbers, titles and dates of the individual drawings, or parts of drawings, included in the Contract are listed in Appendix 0/4 to the Specification.
- 3. The following apply to each drawing unless otherwise stated thereon:
 - i. SHW means the Specification for Highway Works published by The Stationery Office as Volume 1 of the Manual of Contract Documents for Highway Works.
 - ii. Reference to a Clause is a reference to a Clause of the Specification for Highway Works.
 - iii. Reference to a Numbered Appendix (eg. Appendix 3/1) is a reference to a Numbered Appendix to the Specification.

The relevant publication date of each Clause is to be determined from the Schedule of Pages and Relevant Publication Dates in the Specification.

The relevant publication date of each British Standard (BS) and other reference document referred to in the HCD is to be determined in accordance with Clause 004 of the Specification.

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- B1 Cuttings Combined Surface Water and Groundwater Filter Drains
- B2 Cuttings Surface Water Channel for Rigid Carriageway
- B3 Cuttings Surface Water Channel for Flexible Carriageway
- B4 Cuttings Drainage Channel Blocks and Drains
- B5 Central Reserve Combined Surface Water and Groundwater Filter Drains
- B6 Central Reserve Surface Water Channel for Rigid Carriageway
- B7 Central Reserve Surface Water Channel for Flexible Carriageway
- B8 Central Reserve Drainage Channel Blocks and Drains
- B9 Embankments Channels Formed by Kerbs
- B10 Embankments External Kerbs and Drainage Channel Blocks
- B11 Embankments Surface Water Channel for Rigid Carriageway
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 - C2 Expansion Joints Reinforced and Unreinforced Concrete Slabs
 - C3 Contraction Joints
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 - C5 Emergency Transverse Construction Joint (Jointed Reinforced Concrete Slabs only)
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 - C7/1 Transition from Rigid URC or JRC to Flexible Construction
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 - C7/3 Transition from Rigid CRCB to Flexible Construction with Porous Asphalt Surfacing
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- C12 Typical Longitudinal Joint Positions, Unreinforced Slabs, 7.3m Single Carriageway with Climbing Lanes
- C13 Typical Longitudinal Joint Positions, Unreinforced Slabs, 7.3m Single Carriageway with Climbing Lane
- C14 Typical Longitudinal Joint Positions, Unreinforced Slabs, 7.3m Single Carriageway with Junction
- C15 Typical Longitudinal Joint Positions, Unreinforced Slabs, 7.3m Single Carriageway with Junction
- C16 Typical Longitudinal Joint Positions, Unreinforced Slabs, 10m Single Carriageway, Hardstrips and Climbing Lane
- C17 Typical Longitudinal Joint Positions, Unreinforced Slabs, 10m Single Carriageway with Junction
- C18 Continuously Reinforced Concrete Pavement Ground Beam Anchorage
- C19 Continuously Reinforced Concrete Pavement Ground Beam Anchorage Details
- C20 Continuously Reinforced Concrete Pavement Surface Slabs Universal Steel Beam Anchorage
- C21 Concrete Surround to Gullies in Jointed Concrete Pavement
- C22 Concrete Surround to Manholes in Jointed Concrete Pavement
- C23 Gullies In Continuously Reinforced Concrete Pavement or Reinforced Concrete Base
- C24 Manholes in Continuously Reinforced Concrete Pavement or Reinforce Concrete Base
- C25 Slip Road and Link Road Taper Construction and Joint Layout
- C26 Joint Layout for Hardshoulders, Hardstrips and Lay-bys.

LIST OF DRAWINGS SECTION 1 SERIES D - CARRIAGEWAY MARKINGS FOR RURAL MOTORWAYS

- D1 General Notes for Retroreflecting Road Studs
- D2 Typical Layout of Markings for Standard Merging and Diverging Lanes
- D3 Detail and Typical Location of Arrow to Indicate to Traffic the Entrance to a Standard Diverging Lane
- D4 Typical Chevron Markings for Standard Noses
- D5 Typical Carriageway Divergence with Lane Reduction on Main Carriageway
- D6 Typical Lane Reduction (3 to 2 Lane) and Detail of Warning Arrow
- D7 (Not Used).

LIST OF DRAWINGS SECTION 1 SERIES E - DISTANCE MARKER POSTS

- E1 Ground Socket Mounted Posts Types 1, 2 and 3
- E2 Ground Socket Mounted Posts Types 4 and 5
- E3 Parapet/Tunnel Mounted Posts Types 6 and 7
- E4 Safety Barrier Mounted Post and Reflectors Type 8
- E5 Reflectors on Approaches to Emergency Crossing Points Type 9.

LIST OF DRAWINGS SECTION 1 SERIES F - DRAINAGE

- F1 Surface Water Drains Trench and Bedding Details
- F2 Filter Drains Trench and Bedding Details
- F3 Type 1 Chamber (Brick or In Situ Concrete Manhole)
- F4 Type 2 Chamber (Precast Concrete Manhole)
- F5 Type 3 Chamber (Precast Concrete Manhole)
- F6 Type 4 Chamber (Precast Concrete Manhole)
- F7 Type 5 Chamber (Precast Concrete Manhole)
- F8 (Not Used)
- F9 Type 5 Chamber Grating Details
- F10 Chamber Fittings Ladder, Handhold and Safety Chain
- F11 Type 7 Chamber (1050 Catchpit)
- F12 Type 8 Chamber (600 Catchpit)
- F13 Precast and In Situ Cast Gullies
- F14 Sumpless Gully Chamber and Alternative Rising Section
- F15 Drainage Channel Blocks Types A, B and C
- F16 Drainage Channel Blocks Types D, E and F
- F17 Detail of Keyways and Keys for Manhole tops and Kerb Type Gully tops
- F18 Edge of Pavement Drains Fin Drains and Narrow Filter Drains
- F19 Edge of Pavement Drains Installation of Fin Drains
- F20 Edge of Pavement Drains Installation of Narrow Filter Drains
- F21 Edge Of Pavement Drains Under Channel Drainage Layers
- F22 In-Line Outlet to Triangular SW Channel
- F23 In-Line Outlet to Trapezoidal SW Channel
- F24 Weir Outlet to SW Channel
- F25 Type 9 Chamber (Brick or In Situ Concrete Shallow Inspection Chamber)
- F26 Type 10 Chamber (Brick or In Situ Concrete Shallow Inspection Chamber)
- F27 Type 11 Chamber (Precast Concrete Deep Inspection Chamber)
- F28 Chamber Fittings Guardrail.

LIST OF DRAWINGS SECTION 1 SERIES G - LOOP DETECTORS

G1 Installation Drawing NMCS and All-Purpose Roads - Detector Loop Slot Details - Sheet 1

- G2 Installation Drawing NMCS and All-Purpose Roads Detector Loop Slot Details Sheet 2
- G3 Installation Drawing NMCS and All-Purpose Roads Detector Loop Slot Details Sheet 3
 G4 Installation Drawing NMCS and All-Purpose Roads Detector Loop Slot Details Sheet 4
- G5 Installation Drawing NMCS and All-Purpose Roads Detector Loop Stot Details Si G5 Installation Drawing NMCS and All-Purpose Roads - Cross Cutting Corners of Slots
- G6 Installation Drawing NMCS and All-Purpose Roads Cross Cutting Corner G6
- G7 Installation Drawing NMCS Cabinet 600, Loop Pit and N + 1 Layout Details
- G8 Installation Drawing NMCS Loop Joint Chamber Sheet 1
- G9 Installation Drawing NMCS Loop Joint Chamber Sheet 2
- G10 Installation Drawing NMCS and All-Purpose Roads Loop Joint Chamber Sheet 3
- G11 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 1
- G12 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 2
- G13 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 3
- G14 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 4
- G15 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 5
- G16 Installation Drawing NMCS and All-Purpose Roads MIDAS and MS3 Loop Details Sheet 6
- G17 Installation Drawing NMCS Motorway Loop Layout Sheet 1
- G18 Installation Drawing NMCS Motorway Loop Layout Sheet 2
- G19 Installation Drawing NMCS Motorway Loop Layout Sheet 3
- G20 Installation Drawing NMCS Motorway Loop Layout Sheet 4
- G21 Installation Drawing NMCS Motorway Loop Layout Sheet 5
- G22 Loop (Inductive) All-Purpose Roads Details of Feeder Cable Slots
- G23 Loop (Inductive) All-Purpose Roads Detail of Slot for Cable Joint
- G24 Loop (Inductive) All-Purpose Roads Detail of Cable Entry to the Footway
- G25 Loop (Inductive) All-Purpose Roads Detail of Carriageway Box Chamber
- G26 Loop (Inductive) All-Purpose Roads Detail of Signal Duct Box Chamber
- G27 Loop (Inductive) All-Purpose Roads Chevron Loops
- G28 Loop (Inductive) All-Purpose Roads Turning, Queue and Speed Measuring Loops Sheet 1
- G29 Loop (Inductive) All-Purpose Roads Speed Measuring Loops Sheet 2
- G30 Loop (Inductive) All-Purpose Roads Speed Measuring Loops Sheet 3
- G31 Loop (Inductive) All-Purpose Roads Typical Loop Configuration with UD Dimensions
- G32 Loop (Inductive) All-Purpose Roads MOVA Loops.

LIST OF DRAWINGS SECTION 1 SERIES H - FENCES, STILES AND GATES

- H1 Temporary Fences Types 1 and 2
- H2 Temporary Fences Types 3 and 4
- H3 Motorway and Accommodation Works Timber Post and 4 (or 5) Rail Fences
- H4 Motorway and Accommodation Works High Tensile Strained Wire Deer Fences 135
- H5 Motorway and Accommodation Works High Tensile Strained Wire Deer Fences 180
- H6 Motorway and Accommodation Works High Tensile Strained Wire Deer Fences 210
- H7 Turning Posts Strained Wire Fences
- H8 General Details Strained Wire Fences Sheet 1
- H9 General Details Strained Wire Fences Sheet 2
- H10 General Details Strained Wire Fences Sheet 3
- H11 Accommodation Works Chain Link Fences
- H12 Accommodation Works Rectangular Wire Mesh and Hexagonal Wire Netting Fences
- H13 Accommodation Works Strained Wire Fences (General Pattern)
- H14 Accommodation Works Timber Palisade and Close Boarded Fences
- H15 Accommodation Works Timber Post and 3 Rail Fences
- H16 Accommodation Works Woven and Lap Boarded Panel Fences
- H17 Steel Single Field Gate
- H18 Steel Half Mesh Single Field Gate
- H19 Steel Extra Wide Single Field Gate
- H20 Steel Double Field Gate
- H21 Timber Single Field Gate
- H22 Timber Double Field Gate
- H23 Timber Wicket Gate Type 1
- H24 Timber Wicket Gate Type 2
- H25 Timber Kissing Gate
- H26 Hinges for Steel Field Gates
- H27 'D' Latch, Type A for Steel Single Field Gates
- H28 Sliding Bolt Latch, Type B for Steel Single Field Gates
- H29 Tubular Steel Latch for Steel Double Field Gates
- H30 Hinges for Timber Field Gates
- H31 Spring Catch for Timber Single Field Gates
- H32 Latch and Drop Bolt for Timber Double Field Gates
- H33 Standard Gate Stops
- H34 Timber Stile Type 1
- H35 Timber Stile Type 2
- H36 Diagrammatic Methods of Attaching Fencing to Structures
- H37 Rules for The Selection Of Non-Structural Timber for Use In Environmental Barriers Sheet 1
- H38 Rules for The Selection Of Non-Structural Timber for Use In Environmental Barriers Sheet 2
- H39 Planting Works Fencing Rabbit and Deer Fencing Types 1 and 2
- H40 Planting Works Fencing Rabbit and Deer Fencing Types 3, 4 and 5
- H41 Planting Works Fencing Gate
- H42 Planting Works Fencing Stile Types 3 and 4
- H43 Planting Works Fencing Fenced Tree Guards Types 1, 2 and 3
- H44 Planting Works Fencing Urban Area Fencing
- H45 Badger Gate
- H46 Attachment of Wire mesh to Fencing (Sheet 1 of 3)
- H47 Attachment of Wire mesh to Fencing (Sheet 2 of 3)
- H48 Attachment of Wire mesh to Fencing (Sheet 3 of 3).

LIST OF DRAWINGS SECTION 1 SERIES I - UNDERGROUND CABLE DUCTS

- I1 Longitudinal Sections and Details of Transverse Ducts
- I2 Duct Trench Cross-Sections and Details of Mandrel
- I3 Ducts for Motorway Cables at Interchange Overbridges
- I4 Ducts for Motorway Cables at Interchange Underbridges
- I5 Ducts for Motorway Cables at Single Bridges

LIST OF DRAWINGS SECTION 1 SERIES J - FLEXIBLE COMPOSITE CARRIAGEWAY

J1 Example Layouts for Longitudinal Construction Joints in Cement-Bound Roadbases

LIST OF DRAWINGS SECTION 1 SERIES K - MISCELLANEOUS

- K1 Road Lighting Column Fastener Head In Door Recess and Key
- K2 Bedding Mortar Test Apparatus for Flow between Glass Plates
- K3 Flat Traffic Delineator Test Details
- K4 Typical Bench Reinstatement Details for Bituminous and Concrete Pavements
- K5 Planting Details for Planting Large Trees

SECTION 2 NOT USED (05/04)

Amendment - May 2004

Drg No.	Sheet No.	Title
MCX 0000 to		
MCX 0068		Not Used
MCX 0069	1	Installation Drawing NMCS 1 & 2, Signal Alignment & Sighting Post Details (Alignment of Motorway Matrix Indicators - Post Mounted)
MCX 0069	2	Installation Drawing NMCS 1 & 2, Gantry Signal Indicator Alignment Details
MCX 0069	3	Installation Drawing NMCS 2, Motorway Signals Mk3 and Message Signs,
101071 0000	5	Cantilever Sign Setting Out and Optical Alignment
MCX 0069	4	Installation Drawing NMCS 2, Motorway Signals Mk3 and Message Signs,
		Cantilever Sign Setting Out and Optical Alignment
MCX 0069	5	Installation Drawing NMCS 2, Motorway Signals Mk3 and Message Signs,
MC/ 000)	5	Cantilever Sign Setting Out and Optical Alignment
MCX 0069	6	Installation Drawing NMCS 2, Motorway Signals Mk3 and Message Signs,
101071 0000	0	Cantilever Sign Setting Out and Optical Alignment
MCX 0069	7	Installation Drawing NMCS 2, Motorway Signals Mk3 and Message Signs,
	,	Cantilever Sign Setting Out and Optical Alignment
MCX 0070 to		Culture ver Sign Setung Out und Option i nightheit
MCX 0130		Not Used
MCX 0131	1	Installation Drawing NMCS 1, Typical Schematic Drawings & Schedule of
101012 0151	1	Symbols
MCX 0131	2	Installation Drawing NMCS 2, Symbol Schedule for Signals, Telephones &
	-	MIDAS Schematics
MCX 0131	3	Installation Drawing NMCS 2, Typical Layouts for Signals, Telephones &
	U	MIDAS Schematics
MCX 0132	1	Installation Drawing NMCS 1 & 2, Box 615 with Terminator Frame Fitted
MCX 0132	2	Installation Drawing NMCS 1 & 2, Terminator Frame Type 13C (Wiring)
MCX 0132	3	Installation Drawing NMCS 1 & 2, Terminator Frame Type 14C (Wiring)
MCX 0132	4	Installation Drawing NMCS 1 & 2, Termination of Transmission Circuits
MCX 0132	5	Installation Drawing NMCS 1 & 2, Terminator frame Type 13 and 14,
		Building Out and Tag Strip Wiring Details
MCX 0132	6	Installation Drawing NMCS 1, Terminator Frame Type 14C (Wiring 30 pr –20 pr)
MCX 0132	7	Installation Drawing NMCS 1, with 21 bit I/F Terminator Frame Type 14C
MCX 0132	8	Installation Drawing NMCS 2, Terminator Frame Type 14C (Wiring 30 pr –20 pr)
MCX 0133		Not Used
MCX 0134	1	Installation Drawing NMCS 1 & 2, Termination Arrangement Within Box 615
		(Local Side)
MCX 0135	1	Installation Drawing NMCS, Telephone and Housing 611 (Armoured Cable)
MCX 0135	2	Installation Drawing NMCS, Telephone 352 (Armoured Cable) Fitting of
		Lightning Protection Device
MCX 0135	3	Installation Drawing NMCS, Telephone and Housing 611 (Non-Armoured Cable)
MCX 0135	4	Installation Drawing NMCS, Telephone 352 (Non-Armoured Cable) Fitting
		of Lightning Protection Device
MCX 0136	1	Not Used
MCX 0137	1	Installation Drawing NMCS, Method of Sealing Cable Ends
MCX 0138	1	Installation Drawing NMCS 1 & 2, Typical Access Steps
MCX 0138	2	Installation Drawing NMCS 1 & 2, Typical Safety Handrail Details

Drg No.	Sheet No.	Title
MCX 0139	1	Installation Drawing NMCS 1 & 2, Cabinet 609 with Box 615MCX 0140 01 Installation Drawing NMCS, Foundation for Cabinets (600, 609 & 617)
MCX 0141	1	Installation Drawing NMCS 1 & 2, Cable Trench for Armoured Cable
MCX 0142	1	Installation Drawing NMCS 1 & 2, Cable Arrangement on Gantry, Typical 2
11011 01 12	1	or 3 Lane Arrangement (Schematic)
MCX 0142	2	Installation Drawing NMCS 2, Cable Arrangements on Gantry, Typical 4 or 5 Lane
1010112	2	Arrangement (Schematic)
MCX 0142	3	Installation Drawing NMCS 1, Cable Arrangements on Gantry, Typical 4 or 5 Lane
1010112	5	Arrangement (Schematic)
MCX 0142	4	Installation Drawing NMCS 1 & 2, Cable Arrangements on Gantry, Mounting Plate Details
MCX 0142	1	Installation Drawing NMCS 1 & 2, Post 71 with Hardstanding and Housing 611
MCX 0145	1	Installation Drawing NMCS, Post Mounted Signals, Foundation Parameters for
WICK 0144	1	Signal 111 (Post 75E)
MCX 0144	2	Installation Drawing NMCS, Post Mounted Signals, Foundation Parameters
WICK 0144	2	for Signal 113 (Post 75E)
MCX 0144	3	Installation Drawing NMCS, Post Mounted Signals, General Assembly of Signal
WICK 0144	5	Type 111 (Single)
MCX 0144	4	Installation Drawing NMCS, Post Mounted Signals, Brackets and Clamp (Signals 111 and 113)
MCX 0144 MCX 0145	4	Installation Drawing NMCS 1 & 2, Labels for Cabinets 600, 609 & Post 75
MCX 0145 MCX 0145	2	Installation Drawing NMCS 1 & 2, Labels for Signal Posts
MCX 0145 MCX 0145	$\frac{2}{3}$	Installation Drawing NMCS 1 & 2, Labels for Gantries
MCX 0145 MCX 0145	4	Installation Drawing NMCS 1 & 2, System Identification of Labels for Cabinets &
WICA 0145	4	Posts 75/85
MCX 0145	5	Installation Drawing NMCS, Type VI Label for Target Boards
MCX 0145 MCX 0146	1	Installation Drawing NMCS, Cabinet 609/620 Set in Standard Motorway Fence
MCX 0140 MCX 0147	1	Installation Drawing NMCS, Labels for Cables & Telephone Housing
MCX 0147	2	Installation Drawing NMCS, Telephone Instruction For Use Label
MCX 0147 MCX 0148	2	Not Used
MCX 0148 MCX 0149	1	Installation Drawing NMCS 1 & 2, Cabinet 609 - Typical Siting to Allow for Extra
MICA 0149	1	Cable Length
MCX 0149	2	Installation Drawing NMCS 1 & 2, Standard Transverse Cabling Arrangements at
MICA 0149	2	Cabinet Locations
MCX 0150	1	Installation Drawing NMCS 1 & 2, Cabinet 609 - Typical Siting to Allow for Extra
WICA 0150	1	Fibre Optic Cable Length
MCX 0151	1	Installation Drawing NMCS 1, Distributor 903B for Gantry Signals
MCX 0151 MCX 0151	2	Installation Drawing NMCS 2, Data Link Connection Box Type 9903 for Gantry Signals
MCX 0151 MCX 0151	-	
WICA 0151	3	Installation Drawing NMCS 2, Data Link Connection Box Type 9904 for Gantry
MCX 0151	4	Signals Installation Drawing NMCS 2, Data Link Connection Box Cable Pair Allocation
MCX 0151 MCX 0151	5	Installation Drawing NMCS 2, 20/30 to 2 Pair Quad Cable Gland Conversion Kit
MCX 0151	6	Installation Drawing NMCS 2, Data Link Connection Box Type 9905 for
MCY 0151	7	Cantilever MS3 Signals Installation Drawing NMCS 2, Data Link Connection Box Type 9905 for
MCX 0151	7	
MCY 0151	0	Gantry Message Signs
MCX 0151	8	Installation Drawing NMCS 2, Data Link Connection Box Type 9903 for Cantilever Mk3 Signals
		Cantilevel IVIKJ Signals

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Drg No.	Sheet No.	Title
MCX 0152	1	Installation Drawing NMCS 1, Distributor 902E & B (MK2) for Post Signals
MCX 0152	2	Installation Drawing NMCS 2, Data Link Connection Box Type 9902
MCX 0153	1	Installation Drawing, Layout of Communications Cabinets, Posts, Ducts & Hardstanding
MCX 0153	2	Installation Drawing NMCS 1 & 2, Communications Cable Trough Detail
MCX 0154	1	Installation Drawing NMCS, Typical Communications Cable Layout in
MCV 0155		Cabinet 609 (Plan View)
MCX 0155	1	Not Used
MCX 0156	1	Installation Drawing NMCS, Cabinet 600
MCX 0156	2	Installation Drawing NMCS, Cabinet 600, Cable Securing and Earthing Detail
MCX 0156	3	Installation Drawing NMCS 1, Cabinet 600, Wiring Details for Plessey TBU
MCX 0156	4	Installation Drawing NMCS 2, Cabinet 600 - Power Supply to PDU and Extended Mains Supply
MCX 0156	5	Installation Drawing NMCS 2, Cabinet 600 - Power Supply to PDU and Extended Mains Supply Alternative Arrangement for MS3
MCX 0157	1	Installation Drawing NMCS 2, Motorway Signals Interconnections of Equipment on
101011 0107	1	Gantries (Config. P) (Type Numbers of Equipment Shown)
MCX 0157	2	Installation Drawing NMCS 2, Motorway Signals Interconnections of Equipment on
	-	Gantries (Config. P) (Type Numbers of Equipment Shown)
MCX 0157	3	Installation Drawing NMCS 2, Motorway Signals Interconnections of Equipment on Gantries (Config. F) (Type Numbers of Equipment Shown)
MCX 0157	4	Installation Drawing NMCS 2, Motorway Signals Interconnections of Equipment on
		Gantries (Config. F) (Type Numbers of Equipment Shown)
MCX 0157	5	Installation Drawing NMCS 2, Signals Interconnections of Equipment on Rural Sites (Config. P & F) (Type Numbers of Equipment Shown)
MCX 0157	6	Installation Drawing NMCS 2, Gantry Data Link Connection Boxes, Standard and
		Extension Arrangements
MCX 0158 to		
MCX 0159		Not Used
MCX 0160	1	Installation Drawing NMCS, Safety Barrier Protection of Cabinets - Guide
MCX 0161 to		
MCX 0162		Not Used
MCX 0163	1	Installation Drawing NMCS 1 & 2, Box Type 615B
MCX 0164	1	Installation Drawing NMCS 1 & 2, ESC Interface Cabinet, Layout for Non Transmission
		Station Locations
MCX 0164	2	Installation Drawing NMCS 1 & 2, ESC Interface Cabinet, Notes
MCX 0164	3	Installation Drawing NMCS 1 & 2, ESC Interface Cabinet, Parts List
MCX 0164	4	Installation Drawing NMCS 1 & 2, ESC Interface Cabinet, Layout for Transmission Station Locations
MCX 0165	1	Installation Drawing NMCS 1 & 2, Rural Power Cabinet, Typical Layout
MCX 0165	2	Installation Drawing NMCS 1 & 2, Rural Power Cabinet, Notes
MCX 0165	3	Installation Drawing NMCS 1 & 2, Rural Power Cabinet, Parts List
MCX 0165	4	Installation Drawing NMCS 1 & 2, Rural Power Cabinet, Rural Signal Interface
MCX 0105	7	instantation Drawing TWIC5 T & 2, Rural Tower Cabinet, Rural Signal Interface
MCX 0100 to MCX 0169		Not Used
MCX 0109 MCX 0170	1	Installation Drawing NMCS, Gantry Power Cabinet, Notes
MCX 0170 MCX 0170	1	Installation Drawing NMCS, Gantry Power Cabinet, Notes
MCX 0170 MCX 0170	2 3	Installation Drawing NMCS, Gantry Power Cabinet, Circuit Diagrams
	5	instantation Drawing runco, Ganuy rower Cabinet, Circuit Diagrams

	Drg No.	Sheet No.	Title
	MCX 0170	4	Installation Drawing NMCS, Gantry Power Cabinet, Standard Situation
	MCX 0170	5	Installation Drawing NMCS, Cantilever Power Cabinet, Two Way Consumer
		c	Unit Arrangement
	MCX 0170	6	Installation Drawing NMCS, Gantry Power Cabinet, Gantry with Auxiliary Supply
	MCX 0170	7	Installation Drawing NMCS, Gantry Power Cabinet, Double Gantry
			(ESC Supply Side)
	MCX 0170	8	Installation Drawing NMCS, Gantry Power Cabinet, Double Gantry
	MCX 0170	9	Installation Drawing NMCS, Gantry Power Cabinet, Parts List
	MCX 0171	1	Installation Drawing NMCS, Labels For Use on Electrical Switchgear Enclosures
	MCX 0171	2	Installation Drawing NMCS, Parts
	MCX 0172 to		
	MCX 0305		Not Used
	MCX 0306	1	Installation Drawing NMCS 1 & 2, Cabinet 617 Audio Transmission Stations
	MCX 0306	2	Installation Drawing NMCS 1 & 2, Cabinet 617 Mini-Carrier Transmission Stations
	MCX 0306	3	Installation Drawing NMCS 1 & 2, Cabinet 617 Labelling for Transmission Station
	MCX 0307 to		
	MCX 0336		Not Used
	MCX 0337	1	Installation Drawing NMCS 1 & 2, Cabinet 600 Wiring
	MCX 0337	2	Installation Drawing NMCS 1 & 2, Cabinet 600 Wiring for Interface Unit Type 2456
	MCX 0337	3	Installation Drawing NMCS 1, Cabinet 600 (Pre 1974 only) Wiring for Interface
			Unit Type 2456
	MCX 0337	4	Installation Drawing NMCS 1 & 2, Cabinet 600 Wiring for Interface Unit Type 9334
	MCX 0337	5	Installation Drawing NMCS 2, MS3/Message Signs 600 Cabinet Termination
			NMCS 2 Control - Cantilever Sites
	MCX 0337	6	Installation Drawing NMCS 2, MS3/Message Signs 600 Cabinet Termination
			NMCS 2 and Standalone Control - Cantilever Sites
	MCX 0337	7	Installation Drawing NMCS 2, Message Signs 600 Cabinet Termination
			NMCS 2 Control - Gantry Sites
	MCX 0337	8	Installation Drawing NMCS 2, Message Signs 600 Cabinet Termination
			Standalone Control Gantry Sites
	MCX 0337	9	Installation Drawing NMCS, Parts
	MCX 0337	10	Installation Drawing NMCS 1 & 2, TS Marshalling Cabinet 600 - 30 Pr
			Installation Notes
	MCX 0337	11	Installation Drawing NMCS 1 & 2, TS Marshalling Cabinet 600 - 30 Pr
ı			Installation of Rear Frame
1	MCX 0338		Not Used
	MCX 0339	1	Installation Drawing NMCS 2, MS3/Message Signs and Midas Box 615B
			Local Termination Arrangements
	MCX 0339	2	Installation Drawing NMCS 2, MS3/Message Signs and Midas Box 615B
		_	Local Termination Arrangements
	MCX 0339	3	Installation Drawing NMCS 2, MS3/Message Signs and Midas Box 615B
			Local Termination Arrangements
	MCX 0339	4	Installation Drawing NMCS 2, MS3/Message Signs and Midas Box 615B
ı			Local Termination Arrangements
'	MCX 0340 to		
	MCX 0425		Not Used

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Drg No.	Sheet No.	Title
MCX 0426	1	Installation Drawing, Transmission Wiring for Sector Switch and TLC (NMCS 2 Transmission Cabinet)
MCX 0426	2	Installation Drawing, Transmission Wiring for Sector Switch and TLC (NMCS 2 Transmission Cabinet)
MCX 0427 to		
MCX 0485		Not Used
MCX 0486	1	Installation Drawing NMCS 2, Cable Glands - Gland Types
MCX 0486	2	Installation Drawing NMCS, Cable Glands - Parts
MCX 0487 to		
MCX 0488		Not Used
MCX 0489	1	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
		Communications Cables within Cabinet 609
MCX 0489	2	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
	_	Communications Cables within Cabinet 609
MCX 0489	3	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
11011 0 109	5	Communications Cables within Cabinet 609
MCX 0489	4	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
WICK 0407	7	Communications Cables within Cabinet 609
MCX 0489	5	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
WICK 040)	5	Communications Cables within Cabinet 609 Through and Local Sides
MCX 0489	6	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
WICA 0409	0	Communications Cables within Cabinet 609
MCX 0489	7	Installation Drawing, Cassette Termination Arrangement for Fibre Optic
WICA 0409	/	Communications Cables 12 Fibre Armoured - 24 Fibre Unarmoured
MCV 0400	1	
MCX 0490	1	Installation Drawing, Termination Arrangement for Fibre Optic Cables
	2	Within Tx Stations and Control Office Buildings
MCX 0490	2	Installation Drawing, Termination Arrangement for Fibre Optic
	2	Communications Cables at Sites Without Computer Flooring
MCX 0490	3	Installation Drawing, Termination Arrangement for Fibre Optic Cables
		Within Tx Stations Control Office Buildings
MCX 0490	4	Installation Drawing, Termination Arrangement for Fibre Optic
	_	Communications Cables Within Tx Stations and Control Office Buildings
MCX 0490	5	Installation Drawing, Termination Arrangement for Fibre Optic Cables
		Within Tx Stations and Control Office Buildings
MCX 0491 to		
MCX 0508		Not Used
MCX 0509	1	Installation Drawing, Gantry Earthing and Bonding
MCX 0509	2	Installation Drawing NMCS 2, Typical Earth Bonding System for Gantry and
		Cantilever Structures
MCX 0510 to		
MCX 0514		Not Used
MCX 0515	1	Installation Drawing NMCS 2, Motorway VMS - Interconnection of Equipment on
		Gantries
MCX 0515	2	Installation Drawing NMCS 2, Motorway VMS - Interconnection of Equipment on 6
		Lane Gantry & Single Sign
MCX 0515	3	Installation Drawing NMCS 2, Motorway VMS - Interconnection of Equipment on
		Posts

Drg No.	Sheet No.	Title
MCX 0516 to		
MCX 0541		Not Used
MCX 0542	1	Installation Drawing, Cabinet 2303 - Terminations and Wiring (Transmission Station)
MCX 0542	2	Installation Drawing, Cabinet 2303 - Terminations and Wiring (Transmission Station)
1.011.05.40	2	- Notes
MCX 0542	3	Installation Drawing, Cabinet 2303 - Terminations and Wiring (Control Office)
MCX 0542	4	Installation Drawing, Cabinet 2303 - Terminations and Wiring (Control Office) - Notes
MCX 0543	1	Installation Drawing, Cabinet 2304 - Cable Terminations
MCX 0544 to		
MCX 0551		Not Used
MCX 0552	1	Installation Drawing, Co-axial Cable Termination
MCX 0552	2	Installation Drawing, Co-axial Termination Component List
MCX 0553 to		
MCX 0559		Not Used
MCX 0560	1	Installation Drawing NMCS, Cabling Arrangement at Transmission Station Building Site
MCX 0561 to		
MCX 0564		Not Used
MCX 0565	1	Installation Drawing, Typical Layout for installing NMCS 2 Signal and
		Telephone Equipment within a Cabinet Type 600
MCX 0566	1	Installation Drawing NMCS 2, Showing Details of Providing Power from a
		Motorway Site to an All-Purpose Road Installation
MCX 0567 to		
MCX 0574		Not Used
MCX 0575	1	Installation Drawing, Typical 15 Metre and 10 Metre CCTV Mast and Cabinet Base
		with Paved Area
MCX 0576 to		
MCX 0581		Not Used
MCX 0582	1	Installation Drawing NMCS 2, Message Signs and Motorway Signals Mk3
		Preferred Outstation Layout
MCX 0582	2	Installation Drawing NMCS 2, Message Signs and Motorway Signals Mk3
		Preferred Highload Route Outstation Layout
MCX 0582	3	Installation Drawing NMCS 2, Message Signs and Motorway Signals Mk3
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MCX 0590	1	Installation Drawing NMCS 2, Motorway Signal Mk3, Cantilever Site - Typical
11012 0590	1	Arrangement
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MCX 0592	1	Installation Drawing NMCS 2, Midas Loops - Feeder Cable Joint
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MCX 0820	1	Installation Drawing NMCS (Ducted Cable), Cable Joint Enclosure (CJE) -General
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MCX 0822	1	Installation Drawing NMCS (Ducted Cable), CJE Internal Wiring Schematic
11011 0022	1	Type 15-1 Unloaded Longitudinal Cable
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