



NOTES

GENERAL INFORMATION

01. LEVEL CROSSING IS SITUATED AT ENGINEERING LINE REFERENCE KCS1 AT LINE MILEAGE 4 MILES 77 CHAINS WHERE THE ROAD KNOWN AS MILL LANE IS CROSSED BY THE RAILWAY AT ORDNANCE SURVEY GRID REFERENCE SJ763 540 AND POSTCODE CV22 5NX.

02. GROUND PLAN PROPOSALS AND ENGINEERING DETAILS BASED ON LEVEL CROSSINGS: A GUIDE FOR MANAGERS, DESIGNERS AND OPERATORS RAILWAY SAFETY PUBLICATION 7 DECEMBER 2011 (RSP-7), NR/L2/2836/0015 - SPECIFICATION FOR STATION, FOOTPATH, BRIDLEWAY AND USER-WORKED LEVEL CROSSING, THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD) 2016, NETWORK RAIL COMPANY STANDARDS, RAILWAY GROUP STANDARDS AND DEPARTMENT FOR TRANSPORT (DfT) INDUSTRY STANDARDS.

03. GROUND PLAN DESIGN BASED ON GEORIM SKETCH, SITE WALKOVER SURVEY AND TOPOGRAPHICAL SITE SURVEY UNDERTAKEN BY BRIDGEWAY CONSULTING LTD. THESE DRAWINGS ARE PROOF OF CONCEPT ONLY AND DETAILED DESIGN ARE REQUIRED.

04. GROUND PLAN HAS BEEN SUPERIMPOSED WITH SERVICES AND UTILITIES INFORMATION SUPPLIED BY THE NETWORK RAIL BURIED SERVICES TEAM IN DECEMBER 2019. POSITIONS AND TYPES OF BURIED SERVICE ARE APPROXIMATE ONLY AND WHERE NO SERVICE IS INDICATED IT IS NOT TO BE ASSUMED THAT NO SERVICE IS PRESENT. BURIED SERVICES (WHERE SHOWN) ARE APPROXIMATE ONLY. EXACT POSITIONS AND DEPTHS OF ALL SERVICES SHOULD BE CHECKED IN ACCORDANCE WITH HEALTH AND SAFETY EXECUTIVE PUBLICATIONS AND NETWORK RAIL COMPANY STANDARDS.

05. RAILWAY BOUNDARY INFORMATION TAKEN FROM NETWORK RAIL GEO-RIM DATA AND LAND REGISTRY INFORMATION IN SEPTEMBER 2019.

06. LEVEL CROSSING TRAFFIC CENSUS FOR ROAD, RAIL AND PEDESTRIAN USERS COMPLETED OVER A 9 DAY PERIOD FROM 23/06/18 TO 01/07/18 WHICH IDENTIFIES:

- LEVEL CROSSING IS PEDESTRIAN CATEGORY C IN ACCORDANCE WITH RSP-7 TABLE 2 (BASED ON CURRENT CENSUS VALUES).
- TPV VALUE OF 19.
- MAXIMUM DAILY PEDESTRIAN USAGE OF 61.

07. DRAWING TO BE READ IN CONJUNCTION WITH DESIGN LOG DOCUMENT NUMBER 167735-NWR-L40-ESG-000001.

08. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

09. ALL RAIL DIMENSIONS ARE TO THE RUNNING EDGE.

10. CROSSING LENGTH = 600mm MEASURED FROM DECISION POINT LINE TO DECISION POINT LINE.

11. BARTHOMLEY LEVEL CROSSING - TRACK CATEGORY 3.

12. OVERHEAD LINES = 16' 6" (5m HIGH) - HEIGHT TAKEN FROM SIGNAGE ON SITE. HEIGHTS AND STAGGERS SURVEY MEASURED HEIGHT AS 5.7m.

B. SURFACES

ALL EXISTING WHITE LINES TO BE REMOVED.

01. EDGE OF BRIDLEWAY WHITE LINING TO TSRGD. 1012.1 (100mm WIDE).

02. TRANSVERSE STOP LINE TO TSRGD. 1002.1 (100mm WIDE).

03. LEVEL CROSSING CONCRETE DECKING PANELS WITH NON SLIP SURFACE COMPLETE WITH DEFLECTOR PLATES TO NETWORK RAIL LINE SPECIFICATION NR/L2/TRK/4040.

04. SURFACE AREA BETWEEN DECISION POINTS (TRANSVERSE STOP LINES) TO BE YELLOW IN COLOUR TO INDICATE DANGER AREA.

05. EXISTING HARDSTANDING AROUND EXISTING DNO AND PROPOSED LOCATION CASE TO BE MADE GOOD, INCLUDING HANDRAILING AND ACCESS STEPS.

06. EQUESTRIAN MOUNTING BLOCK AND HITTING POST TO BE BASED ON REQUIREMENTS PROVIDED BY THE BRITISH HORSE SOCIETY.

07. WHERE EXISTING VEGETATION ENCROACHES ONTO NEW WORKS, ALL VEGETATION MUST BE CUT BACK AND CLEARED, MIN. OF 1m, AND SUITABLY TREATED, TO NETWORK RAIL STANDARD NR/L1/TRK/05200.

C. SIGNAGE

NETWORK RAIL SIGNS TO G1RT7033, ISSUE 2

01. SIGN - 'PENALTY FOR TRESPASS', CAT NO. 56/113902. (SEE KEY TO CROSSING SIGNS).

02. AMALGAMATED SIGN NO. CB01 / PCR 119. 'DANGER OVERHEAD LIVE WIRES & HORSE RIDERS MUST DISMOUNT'. (SEE KEY TO CROSSING SIGNS).

03. SIGN - 'KEEP DOGS ON A LEAD'. (SEE KEY TO CROSSING SIGNS).

04. SIGN NO. CC02 - 'SUPPLEMENTARY SIGN FOR LEVEL CROSSINGS' MOUNTED ON FENCING. EMERGENCY PHONE NUMBER TO NETWORK RAIL HELPLINE (SEE KEY TO CROSSING SIGNS).

05. SIGN NO. AK212 - 'LEVEL CROSSING IDENTIFICATION NAME BOARD' (SEE KEY TO CROSSING SIGNS).

06. TSRGD 787 - PUBLIC TELEPHONE SIGN. (SEE KEY TO CROSSING SIGNS).

07. PCR 107 - MINATURE STOP LIGHT SIGN - 2 OFF.

08. PCR 114 - PEDESTRIAN INSTRUCTION SIGN. (SEE KEY TO CROSSING SIGNS).

09. PCR 118 - 'PERSONS IN CHARGE OF ANIMALS...' SIGN - 2 OFF.

10. RBL IS558 - 'TRAINS RUN EITHER WAY ON EACH LINE' SIGN, SINGLE LINE VARIANT REQUIRED - 2 OFF.

11. TSR 966 - 'CYCLISTS DISMOUNT' SIGN - 2 OFF.

12. PCR 119 - 'HORSE RIDERS MUST DISMOUNT' SIGN - 2 OFF. LOCATED AT EQUESTRIAN MOUNTING BLOCK & HITTING POST.

13. TSR 790 - 'NEW LEVEL CROSSING CONTROL AHEAD' SIGN. TO BE DISPLAYED FOR NOT LONGER THAN 3 MONTHS - 2 OFF.

14. TSR 816 - 'NO THROUGH ROAD' SIGN - 3 OFF.

15. RBL BA04 - WARNING LIMITED CLEARANCE SIGN.

16. ALL REDUNDANT SIGNS TO BE RECOVERED.

D. CABLE ROUTES / TURNING CHAMBERS

01. CONCRETE SURFACE TROUGHING, C14/23. 350mm WIDE x 300mm DEEP (INTERNAL). TO BE SET AT GROUND HEIGHT IN AREAS OF SITE ACCESS, OPERATING AND MAINTENANCE. TO BR SPEC 1612 (NETWORK RAIL DRG. BR-SC 11).

02. CONCRETE SURFACE TROUGHING FOR TRANSITION UNIT, C13/25. 280-340mm WIDE (EXTERNAL) x 130mm DEEP (INTERNAL). TO BE SET AT GROUND HEIGHT IN AREAS OF SITE ACCESS, OPERATING AND MAINTENANCE. TO BR SPEC 1612 (NETWORK RAIL DRG. BR-SC 11).

03. CONCRETE SURFACE TROUGHING, C18/28. 198mm WIDE x 130mm DEEP (INTERNAL). TO BE SET AT GROUND HEIGHT IN AREAS OF SITE ACCESS, OPERATING AND MAINTENANCE. TO BR SPEC 1612 (NETWORK RAIL DRG. BR-SC 11).

04. ROUTES TO EQUIPMENT - 150mm INTERNAL DIA. uPVC DUCT TO BR. SPEC 1612, BS 3506.

05. EXISTING 9 WAY UNDER TRACK CROSSING (UTX) - 6 x 170mm & 3 x 110mm PLASTIC DUCTS (USABLE).

06. NEW UNDER ROAD CROSSING (URX) - 6 x 150mm DIA. DUCTS TO BE INSTALLED GENERALLY IN ACCORDANCE WITH NETWORK RAIL FORM A DRAWING IP/SAE/EPF99/CIVIL/S0100. MAY BE REQUIRED DUE TO NO VEHICULAR ACCESS.

07. EXISTING TURNING CHAMBER TO BE PROVIDED WITH NON-SLIP FABRICATED STEEL SAFETY COVER AND FRAME INSTALLED TO NETWORK RAIL TEMPLATE DRAWING IP/SAE/EPF99/CIVIL/S0100 & NETWORK RAIL SPECIFICATION NR/SP/CIV/044.

08. ALL EXISTING CABLE ROUTES TO BE PROTECTED DURING INSTALLATION WORKS.

09. DRAIN COVER TO BE REPAIRED AND CLEANED TO ENSURE IT DOES NOT PRESENT A TRIPPING HAZARD OR IMPAIRS THE MOVEMENT OF THE GATE.

10. EXISTING DRAIN TO REMAIN - TO BE CLEANED OUT IF NECESSARY.

E. FOUNDATIONS

CONCRETE FOUNDATIONS IN ACCORDANCE WITH NETWORK RAIL COMPANY STANDARD NR/L3/CIV/140, AND SPECIFICALLY APPROVED SCHEME FORM 1 DRAWINGS AND SUBJECT TO SOIL SAMPLES, AS LISTED BELOW.

01. MINATURE STOP LIGHT FOUNDATION IN ACCORDANCE WITH CIVIL ENGINEERING DRAWING. - 2 OFF.

02. MINATURE STOP LIGHT CONTROL LOCATION CASE FOUNDATION IN ACCORDANCE WITH CIVIL ENGINEERING DRAWING. - 1 OFF.

03. SIGNAL PHONE POST BASE FOR MOUNTING PUBLIC USE TELEPHONES - PADS No. 004/012558 - 2 OFF.

F. SIGNALLING ENGINEERING

01. MINATURE STOP LIGHT UNIT WITH YODALARM AUDIBLE WARNING DEVICE.

02. MINATURE STOP LIGHT CONTROL LOCATION CASE.

G. FENCING / ACCESS

01. REFER TO KEY FOR TYPES OF FENCING.

02. GRP PALISADE FENCING TO NETWORK RAIL STANDARD NR/L3/CIV/140/240N. MODIFIED AS REQUIRED. HEIGHT TO BE 1200mm. MINIMUM DISTANCE OF ANY NEW FENCE POST TO RUNNING EDGE TO BE 1620mm.

03. DOUBLE-OPENING, SELF-CLOSING BRIDLEWAY WICKET GATE FITTED WITH PROSAFE 2-WAY HYDRAULIC HINGE OR SIMILAR - TO BE 1500mm WIDE. - 2 OFF. SEE REPORT: A TRIAL OF SELF-CLOSING BRIDLEGATES 2015. A NATURAL ENGLAND JOINT PUBLICATION J016.

04. ZN AND ZO VEHICULAR LINESIDE ACCESS GATES TO BE MOVED TO NEW POSITIONS AS SHOWN.

05. CATTLE-CUM-TRESPASS GUARDS (WOODEN / GRP TYPE) - INSTALLED TO NETWORK RAIL STANDARD TEMPLATE NO. IP/SAE/EPF99/CIVIL/S0101- NEW CATTLE-CUM-TRESPASS GUARDS TO EXTEND FOR A MINIMUM OF 2600mm STEP-OVER DISTANCE MEASURED FROM ANY EDGE OF THE LEVEL CROSSING SURFACE.

H. TELECOMMUNICATIONS ENGINEERING

01. NEW PUBLIC EMERGENCY TELEPHONE (PETS) - FITTED TO POST (DOWN SIDE APPROACH).

02. NEW PUBLIC EMERGENCY TELEPHONE (PETS) - FITTED TO BURIED TYPE POST (UP SIDE APPROACH).

J. SYSTEMS ENGINEERING

01. EXISTING CCTV POST AND CAMERA - MOVED TO SUITABLE POSITION TO MAINTAIN VISIBILITY OF CROSSING AREA.

VERSION		Description of Amendment		Source Record Amended		
		Date	Prod.	Check		
A	Initial issue.	27/09/2019	KE	CW		
B	Updated to DRN comments.	10/12/2019	KE	CW		
C	Updated to AIP.	22/01/2020	KE	NCS		
D	Updated to IDC meeting comments / RAM e-mail dated 11-02-2020 (see design log item 35)	18/02/2020	SB	KE		
E	Updated to DRN comments	09/03/2020	KE	CW		
F	Updated to DRN comments	07/05/2020	KE	CW		

ABBREVIATIONS

DNO - DISTRIBUTION NETWORK OPERATOR'S CUBICLE
GU - DRAINAGE GULLY
IC - INSPECTION CHAMBER
IBJ - INSULATED BOND JOINT
LOC - LOCATION CASE
MSL - MINATURE STOP LIGHT
OP - ORANGE PIPE
TEL - TELEPHONE
URX - UNDER ROAD CROSSING
UTX - UNDER TRACK CROSSING
YO - UP OFFSIDE
YN - UP NEARSIDE
ZO - DOWN OFFSIDE

KEY

EXISTING - PROPOSED - REMOVED - MODIFIED - DIMENSIONS - BOUNDARY

BURIED SERVICES - DRAIN - OVERHEAD LINE RETURN CONDUCTOR - CHLR - HAZARD

FENCING - GRP PALISADE - WELDMESH - WOODEN PALISADE - WOODEN PICKET

PRIVATE LAND TITLE REGISTER: CH96261

DUCHY OF LANCASTER LAND TITLE REGISTERS: CH601749 (NW CORNER), CH601577 (NE CORNER), CH601763 (SW CORNER), CH601802 (SE CORNER)

STATION - LEVEL CROSSING

SITE PLAN SCALE - NTS

This copy is only plotted at correct scale if this line is 100mm long

DESIGN DELIVERY

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CREWE SIGNAL BOX
ELR: KCS1 - KIDSGROVE, IN. TO CREWE SOUTH JN.
MILEAGE: 4m 77ch GRID REF: SJ763 540

BARTHOMLEY LEVEL CROSSING

PROPOSED CONVERSION OF USER WORKED CROSSING WITH TELEPHONE AND FOOTPATH WITH MINATURE STOP LIGHTS TO BRIDLEWAY CROSSING AND FOOTPATH WITH MINATURE STOP LIGHTS

APPROVAL IN PRINCIPLE

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