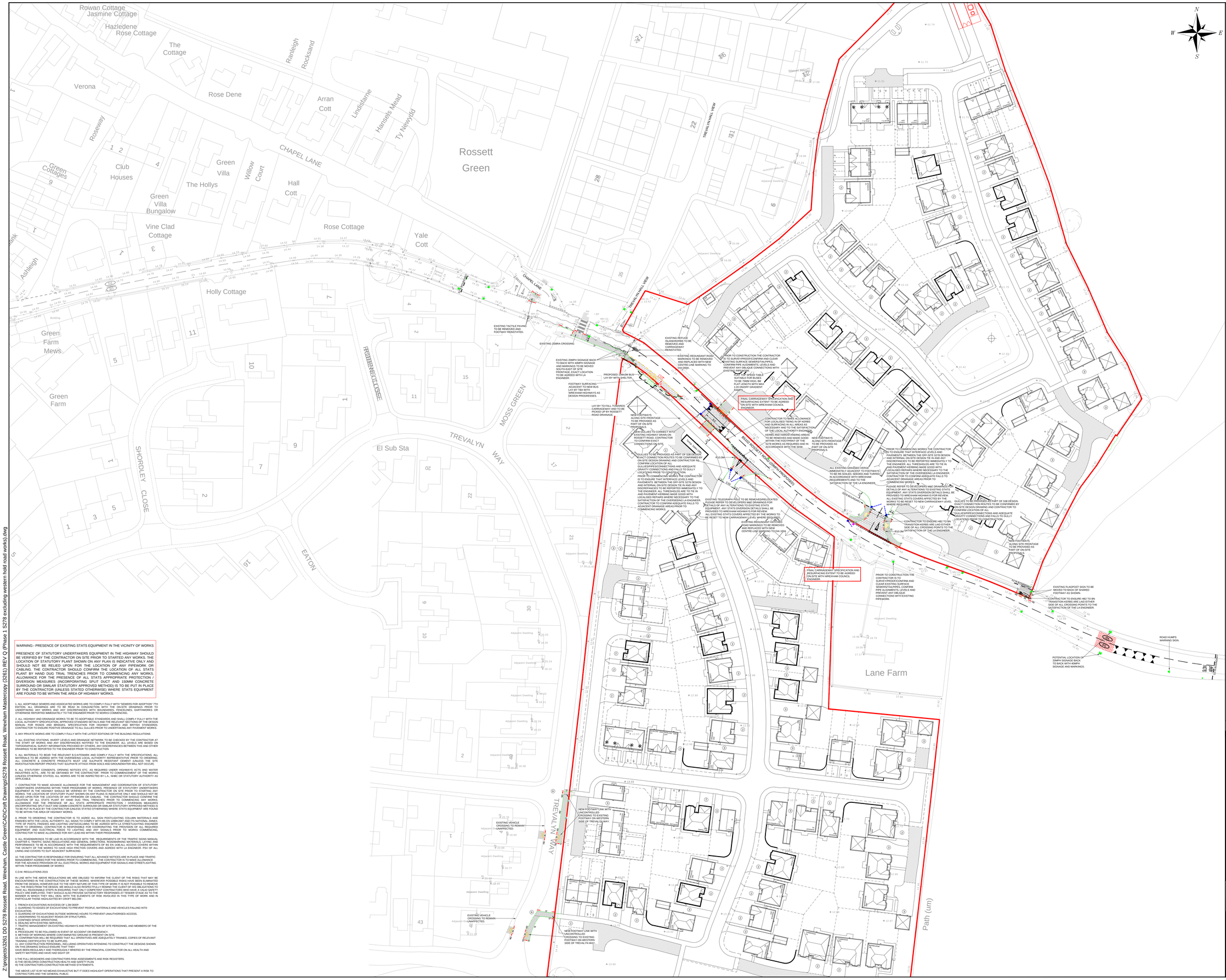


NOTES

EXACT SPECIFICATION OF CARRIAGEWAY CONSTRUCTION TO BE AGREED WITH WREXHAM COUNCIL.

FULL DEPTH CARRIAGEWAY CONSTRUCTION (NO LIMESTONE AGGREGATE TO BE USED IN ANY PART OF THE CONSTRUCTION) TO BE CONSTRUCTED WITH MATERIALS THAT HAVE TO BE LAID AND TRANSPORTED IN ACCORDANCE WITH THE SHW. BITUMINOUS SPRAY TO BE APPLIED IN ACCORDANCE WITH CLAUSE 920 OF THE SHW.

SURFACE: 40MM THICK SMA 10 SURF 40/60 PSV MIN 55 TO BS EN 13108.

BINDER: 60MM THICK AC 20 DENSE BIN 100/150 REC TO BS EN 13108.

BASE: 150MM THICK AC32 BASE 40/60 REC TO BS EN 13108.

SUB BASE: MIN 150MM THICK SUB-BASE (SUBJECT TO ON-SITE CBR RESULTS-PLEASE REFER TO TABLE ON D0001 IN TYPE 1 GRANULAR MATERIAL, LAID AND COMPACTED TO THE SPECIFICATION FOR HIGHWAY WORKS CLAUSES 701, 801, & 803.

CAPPING: REQUIRED CAPPING DEPTH SUBJECT TO ON-SITE CBR TEST RESULTS. FOR ALL CAPPING DETAILS PLEASE REFER TO THE TABLE PROVIDED ON THE STANDARD DETAILS PLAN AND THE DMRB FOR FURTHER GUIDANCE. CBR TO BE ESTABLISHED ON SITE PRIOR TO STARTING WORKS. CONTRACTOR TO REFER TO THE DESIGN MANUAL FOR ROADS AND BRIDGES VOLUME 7, SECTION 2, PART 3 DESIGN MANUAL FOR ROADS AND BRIDGES VOLUME 7, SECTION 2, PART 3 CHAPTER 3 FOR FURTHER GUIDANCE ON SUB-BASE CAPPING RELATIONSHIP. APPROPRIATE TERRAM GEOTEXTILE MEMBRANE TO BE LAID BENEATH CAPPING LAYER TO MANUFACTURER'S PROPRIETARY REQUIREMENTS.

NARROW WIDENING IN AREAS LESS THAN 1.2M
AS FULL DEPTH CARRIAGEWAY CONSTRUCTION BUT BASE AND SUB-BASE LAYER REPLACED WITH ST2 CONCRETE. PLEASE SEE STANDARD DETAIL ON DWG D0004.

FOOTWAY CONSTRUCTION
20MM THICK AC8 DENSE SURF 100/150 REC TO BS EN13108
60MM THICK AC20 DENSE BIN 100/150 REC TO BS EN13108
150MM THICK TYPE 1 SUB BASE 215MM AT VEHICLE CROSSINGS

FOOTWAY RESURFACING
EXISTING FOOTWAY SURFACE AND BINDER REMOVED AND REPLACED WITH FOOTWAY SPEC AS ABOVE.

SPEED CUSHION
35MM HRA SURFACE COURSE (NOMINAL 14MM AGGREGATE) WITH COATED RED CHIPPINGS (MIN PSV 65+)
40MM HRA BINDER COURSE (NOMINAL 14MM AGGREGATE)
150MM TYPE 1 SUB BASE 215MM
SEE STANDARD DETAILS PROVIDED

KERBING

ALL KERBS, CHANNELS, FLAGS, EDGINGS ETC CONSTRUCTED TO THE REQUIREMENTS OF BS 7263 PART 1. ALL KERBS TO BE LAID ON A 150MM THICK CONCRETE FOUNDATION AND HAUNCH TO BE FILLED WITH HOT POURED BITUMEN MAX WIDTH 20MM, WHERE THE GAP IS GREATER THAN 20MM IT SHALL BE REINSTATED AS SHOWN IN THE REINSTATEMENT STANDARD DETAIL. ALL NEW TO EXISTING SURFACE COURSE JOINTS TO BE SEALED WITH HOT POUR BITUMEN. WHERE NECESSARY EXISTING SURFACES TO BE SAW CUT TO PROVIDE A NEAT VERTICAL EDGE.

DENOTES NEW KERBS & EDGINGS

HB2 PRECAST CONCRETE 'HALF BATTERED' KERB 125X255, BS REF 'HB2' SET WITH 125MM FACE UNLESS OTHERWISE INDICATED/STED IN WITH EXISTING TO INCLUDE TAPER KERBS 125 X 250/150, BS REF 'SLL' SVL'.

PROPOSED HB2 KERBS AND ASSOCIATED TRANSITION/DROPPER KERBS EITHER SIDE OF THE PROPOSED PEDESTRIAN CROSSING ARE AVAILABLE FROM SUPPLIERS, WITHOUT THE NEED TO CUT KERBS.

EF PRE-CAST CONCRETE 'FLAT TOP' EDGING 200X50, BS REF 'EF', FLUSH WITH FOOTWAY SURFACE.

BN DROPPED KERB CONSISTING OF PRECAST CONCRETE 'BULL NOSE' KERB 125 X 150, BS REF 'BN'. KERB SET FLUSH OR 6MM UPSTAND

TACTILE PAVING

450X450X80 CONCRETE 'BUFF' COLOURED TACTILE PAVING FLAGS
50MM 4:1 SAND/CEMENT BED
200MM TYPE 1 GRANULAR SUB-BASE MATERIAL TO CLAUSE 803

EXISTING GULLY GRATING AND FRAME TO BE REMOVED TO TIP AND POT FILLED WITH MIX ST2 CONCRETE TO BELOW FORMATION LEVEL.

PRECAST CONCRETE STREET GULLY 450MM DIA X 900MM TO BS 5911 BS EN 124 WITH DUCTILE IRON HINGE GULLY GRATE AND 150MM FRAME WITH ENCAPSULATING GRATING TO BE SET IN CONCRETE SURROUND TO MATCH ADJACENT FINISHES. CONTRACTOR TO CONFIRM ON SITE PRIOR TO COMMENCING ANY DRAINAGE WORKS. CONTRACTOR TO ENSURE THAT NO OBLIQUE TURNS ARE MADE IN ALL GULLY CONNECTIONS AND ADJUST CONNECTIONS WHERE NECESSARY TO THE SATISFACTION OF THE LA ENGINEER.

EXISTING GULLY TO REMAIN.

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO SURVEYPROOF/CONFIRM AND CLEAR EXISTING SURFACE SEWERS/TAILPIPES, CONFIRM PIPE ALIGNMENTS, LEVELS AND PREVENT ANY OBLIQUE CONNECTIONS WITH EXISTING PIPEWORK.

WARNING:- PRESENCE OF EXISTING STATS EQUIPMENT IN THE VICINITY OF WORKS

PRESENCE OF STATUTORY UNDERTAKERS EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTED ANY WORKS. THE LOCATION OF STATUTORY PLANT SHOWN ON ANY PLAN IS INDICATIVE ONLY AND SHOULD NOT BE RELIED UPON FOR THE LOCATION OF ANY PIPEWORK OR CABLING. THE CONTRACTOR SHOULD CONFIRM THE LOCATION OF ALL STATS PLANT BY HAND DUG TRIAL TRENCHES PRIOR TO COMMENCING ANY WORKS. ALLOWANCE FOR THE PRESENCE OF ALL STATS APPROPRIATE PROTECTION / DIVERSION MEASURES (INCORPORATING SPLIT DUCT AND 150MM CONCRETE SURROUND OR SIMILAR STATUTORY APPROVED METHOD) IS TO BE PUT IN PLACE BY THE CONTRACTOR (UNLESS STATED OTHERWISE) WHERE STATS EQUIPMENT ARE FOUND TO BE WITHIN THE AREA OF HIGHWAY WORKS.

1. ALL ADOPTABLE SEWERS AND ASSOCIATED WORKS ARE TO COMPLY FULLY WITH "SEWERS FOR ADOPTION" 7TH EDITION, ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ON-SITE DRAWINGS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE POSITION OF UTILITIES, EARTHWORKS OR OTHERWISE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO WORKS COMMENCING.

2. ALL HIGHWAY AND DRAINAGE WORKS TO BE TO ADOPTABLE STANDARDS AND SHALL COMPLY FULLY WITH THE LOCAL AUTHORITY SPECIFICATION, APPROVED STANDARD DETAILS AND THE RELEVANT SECTIONS OF THE DESIGN MANUAL FOR ROADS AND BRIDGES VOLUME 7, SECTION 2, PART 3 CHAPTER 3 FOR FURTHER GUIDANCE. CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO ALL GULLIES PRIOR TO UNDERTAKING ANY PAVEMENT WORKS.

3. ANY PRIVATE WORKS ARE TO COMPLY FULLY WITH THE LATEST EDITIONS OF THE BUILDING REGULATIONS

4. ALL EXISTING STATIONS, INVERT LEVELS AND DRAINAGE NETWORK TO BE CHECKED BY THE CONTRACTOR AT THE START OF WORKS AND ANY DISCREPANCIES NOTIFIED TO THE ENGINEER. ALL LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY OTHERS, ANY DISCREPANCIES BETWEEN THIS AND OTHER DRAWINGS TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION

5. ALL MATERIALS TO BEAR THE RELEVANT B.S.KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL MATERIALS TO BE AGREED WITH THE OVERSEEING LOCAL AUTHORITY REPRESENTATIVE PRIOR TO ORDERING. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR)

6. ALL STATUTORY CONSENTS, OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS AND WATER INDUSTRIES ACTS., ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS (UNLESS OTHERWISE STATED). ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR STATUTORY AUTHORITY AS APPLICABLE.

7. CONTRACTOR TO MAKE ADVANCE ALLOWANCE FOR THE MANAGEMENT AND COORDINATION OF STATUTORY UNDERTAKERS DIVERSIONS WITHIN THEIR PROGRAMME OF WORKS. PRESENCE OF STATUTORY UNDERTAKERS EQUIPMENT IN THE HIGHWAY SHOULD BE VERIFIED BY THE CONTRACTOR ON SITE PRIOR TO STARTING ANY WORKS. THE LOCATION OF STATUTORY PLANT SHOWN ON ANY PLAN IS INDICATIVE ONLY AND SHOULD NOT BE RELIED UPON FOR THE LOCATION OF ANY PIPEWORK OR CABLING. THE CONTRACTOR SHOULD CONFIRM THE LOCATION OF ALL STATS PLANT BY HAND DUG TRIAL TRENCHES PRIOR TO COMMENCING ANY WORKS. ALLOWANCE FOR THE PRESENCE OF ALL STATS APPROPRIATE PROTECTION / DIVERSION MEASURES (INCORPORATING SPLIT DUCT AND 150MM CONCRETE SURROUND OR SIMILAR STATUTORY APPROVED METHOD) IS TO BE PUT IN PLACE BY THE CONTRACTOR (UNLESS STATED OTHERWISE) WHERE STATS EQUIPMENT ARE FOUND TO BE WITHIN THE AREA OF HIGHWAY WORKS.

8. PRIOR TO ORDERING THE CONTRACTOR IS TO AGREE ALL SIGN POST/LIGHTING COLUMN MATERIALS AND FINISHES WITH THE LOCAL AUTHORITY. ALL SIGNS TO COMPLY WITH BS EN 12899/1997 AND ITS NATIONAL ANNEX TYPE OF POSTS, FINISHES AND LIGHTING UNITS/COLOURING TO BE AGREED WITH LA STREETLIGHTING ENGINEER PRIOR TO ORDERING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PROVISION OF ALL REQUIRED EQUIPMENT AND ELECTRICAL FEEDS TO LIGHTING AND ANY SIGNALS PRIOR TO WORKS COMMENCING. CONTRACTOR TO MAKE ALLOWANCE FOR ANY LEAD-INS WITHIN THEIR PROGRAMME.

9. ALL ROADMARKINGS TO BE LAID IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRAFFIC SIGNS MANUAL CHAPTER 5, TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS, ROADMARKING MATERIALS, LAYING AND PERFORMANCE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF BS EN 1436:ALL ACCESS COVERS WITHIN THE AREA OF WORKS TO BE ADJUSTED TO FINISH FLUSH WITH NEW SURFACE COVERS AND AGREED WITH LA ENGINEER. PSV OF ALL LINING AND COVERS TO SUIT ADJACENT SURFACING.

10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ADVANCE NOTICES ARE IN PLACE AND TRAFFIC MANAGEMENT AGREED FOR THE WORKS PRIOR TO COMMENCING. THE CONTRACTOR IS TO MAKE ALLOWANCE FOR TEMPORARY WORKS, ALL ELECTRICAL WORKS AND EQUIPMENT FOR SIGNALS AND STREETLIGHTING WITHIN THEIR PROGRAMME OF WORKS.

C.D.M. REGULATIONS 2015

IN LINE WITH THE ABOVE REGULATIONS WE ARE OBLIGED TO INFORM THE CLIENT OF THE RISKS THAT MAY BE ENCOUNTERED IN THE CONSTRUCTION OF THESE WORKS. WHEREVER POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN, HOWEVER DUE TO THE VERY NATURE OF THIS TYPE OF WORK IT IS NOT POSSIBLE TO REMOVE ALL RISKS. THE CONTRACTOR IS REMINDED THAT UNDER THE CDM REGULATIONS IT IS THEIR RESPONSIBILITY TO TAKE ALL REASONABLE STEPS IN ENSURING THAT ONLY COMPETENT CONTRACTORS WHO HAVE A VALID SAFETY POLICY ARE EMPLOYED. THEY SHOULD ALSO PROVIDE SATISFACTORY RESPONSES AT TENDER STAGE AS TO THE MANNER IN WHICH THEY WILL DEAL WITH THE ELEMENTS OF RISK INVOLVED IN THIS TYPE OF WORK AND IN PARTICULAR THOSE HIGHLIGHTED BY CROFT BELOW:-

1. TRENCH EXCAVATIONS IN EXCESS OF 1.2M DEEP.
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE, MATERIALS AND VEHICLES FALLING INTO EXCAVATION.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. EXCAVATIONS ADJACENT TO ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. DEALING WITH EXISTING SERVICES.
7. TRAFFIC MANAGEMENT ON EXISTING HIGHWAYS AND PROTECTION OF SITE PERSONNEL AND MEMBERS OF THE PUBLIC.
8. PROCEDURE TO BE FOLLOWED IN EVENT OF ACCIDENT OR EMERGENCY.
9. METHOD OF WORKING WHERE CONTAMINATED GROUND IS PRESENT ON SITE.
10. CONFIRMATION WILL BE REQUIRED THAT ALL OPERATIVES ARE ADEQUATELY TRAINED, COPIES OF RELEVANT TRAINING CERTIFICATES TO BE SUPPLIED.
11. ANY CONSTRUCTION PERSONNEL, INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THESE DRAWINGS SHOULD ENSURE THAT:
HAVE BEEN REGULARLY AND THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE HAD SIGHT OF:

i) THE FULL DESIGNERS AND CONTRACTORS RISK ASSESSMENTS AND RISK REGISTERS.
ii) THE DEVELOPED CONSTRUCTION HEALTH AND SAFETY PLAN
iii) THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

THE ABOVE LIST IS BY NO MEANS EXHAUSTIVE BUT IT DOES HIGHLIGHT OPERATIONS THAT PRESENT A RISK TO CONTRACTORS AND THE GENERAL PUBLIC.

REV	DETAILS	DRAWN	CHECKED	DATE
Q	AMENDED TO COMMENTS (STAGE 1 S278 EXC. HOLT ROAD)	JC	JC	SEP 24
N	AMENDED TO COMMENTS	SL	JC	JUN 24
M	AMENDED TO COMMENTS	LB	JC	JUN 24
L	AMENDED TO COMMENTS	LB	JC	MAR 24
K	REVISED FOLLOWING WREXHAM COMMENTS	LB	JC	MAR 24
J	REVISED FOLLOWING WREXHAM COMMENTS	JC	MC	AUG 22
I	REVISED FOLLOWING WREXHAM COMMENTS	JC	MC	JUN 22
H	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	FEB 22
G	REVISED FOLLOWING WREXHAM FIRST TECHNICAL REVIEW	JC	MC	NOV 21
F	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	OCT 21
E	REVISED FOLLOWING WREXHAM PLANNING COMMENTS	JC	MC	OCT 21
D	ADDITIONAL CROSSING ON HOLT ROAD	JC	MC	OCT 21
C	REVISED IN-LINE WITH STAGE 1/2 RSA	JC	MC	MAY 21
B	ADDITIONAL FOOTWAY LINKS OUTSIDE OF RED EDGE ADDED	JC	MC	APR 21
A	ADDITIONAL FOOTWAY LINKS OUTSIDE OF RED EDGE ADDED	JC	MC	MAR 21

CLIENT:
MACBRYDE HOMES

PROJECT:
ROSSETT ROAD, WREXHAM

DRAWING TITLE:
PHASE 1
S278 CONSTRUCTION MATERIALS

SCALES:
1:250 @ A0

DRAWN:	CHECKED:	DATE:
JC	MC	JAN 21

Croft Transport Planning & Design
340 Deansgate
Manchester
M3 4LY
Email: info@crofts.co.uk
Tel: 0161 837 7380
Web: www.eddisons.com/services/transport-planning

DRAWING NUMBER: 3261-D002
REVISION: O

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