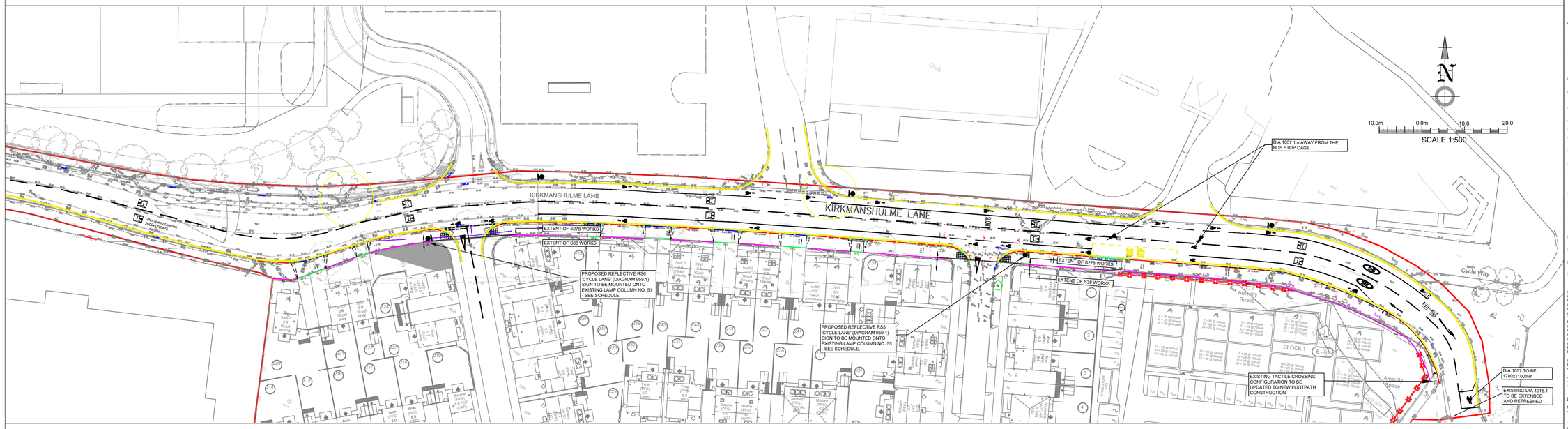
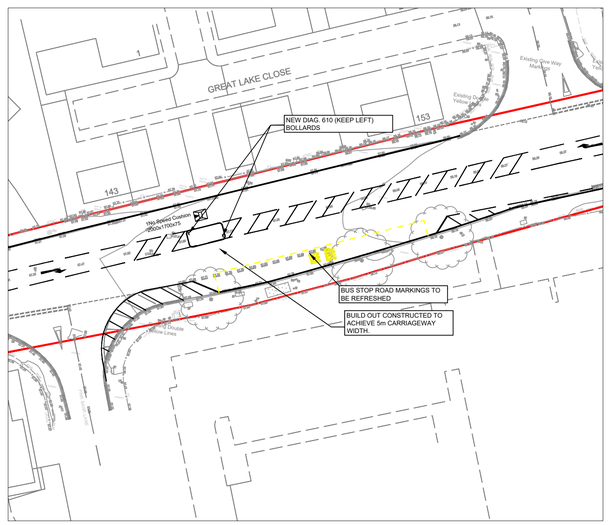
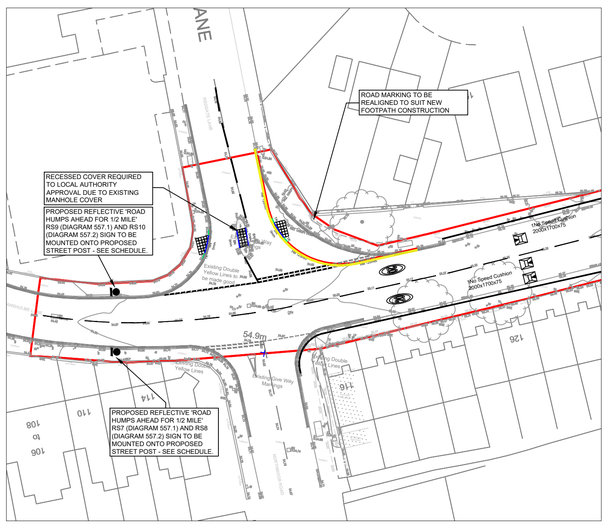


INSET 1
SCALE 1:500



INSET 2
SCALE 1:500



INSET 3
SCALE 1:500

KEY - SECTION 278 KERBING

- EXTENT OF SECTION 278 BOUNDARY
- EXTENT OF WORKS BY OTHERS (ADEPT)
- HB2 — 125x255mm PCC HALF BATTERED KERBS WITH A 125mm KERB FACE
- BN — 125x150mm PCC BULLNOSED KERBS WITH A 25mm KERB FACE FOR VEHICULAR CROSSINGS & 0mm FLUSH KERB FACE FOR PEDESTRIAN CROSSINGS.
- BN 160mm — 150x305mm PCC BULLNOSED KERBS WITH A 160mm UPSTAND
- TK — PCC TRANSITION KERB (TAPER) - HALF BATTERED TO BULLNOSED
- EF — 50x150mm PCC FLAT TOP EDGING WITH A 50mm UPSTAND
- EF-C — 50x150mm PCC FLAT TOP EDGING LAID FLUSH
- TACTILE PAVING - BUFF COLOUR

NOTES:

NOTES AND ROAD SPECIFICATION

1. CBR TESTS ARE TO BE UNDERTAKEN ON TOP OF THE SUB-BASE LAYER BY AN APPROVED TESTING COMPANY. THE NUMBER AND TEST LOCATIONS ARE TO BE DETERMINED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY. A MINIMUM CBR VALUE OF 30% MUST BE ACHIEVED ON TOP OF THE SUB-BASE AT EACH LOCATION FOR THE ROAD ADOPTION TO PROGRESS.

2. ALL ADOPTABLE HIGHWAY DRAINAGE (INCLUDING MANHOLES, GULLIES AND GULLY CONNECTIONS) IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE UNITED UTILITIES SEWERS FOR ADOPTION 6TH EDITION, SPECIFICATION AND THEIR LATEST RELEVANT STANDARD AND TYPICAL DETAILS.

3. ALL EXISTING KERBS WITHIN THE S278 WORKS ARE TO BE REPLACED WITH NEW KERBS.
   CONCRETE BEDDING AND BACKING SHALL BE TYPE ST1 TO CLAUSE 3502 TABLE 26 / 1
   KERBS SHALL COMPLY WITH BS EN 1340: 2003
   KERBS SHALL BE LAID ON AND BACKED WITH CEMENT TO BS EN 197-1.
   JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR TO CLAUSE 2404.
   CUT LENGTHS OF KERB ARE TO BE CUT USING A DISC CUTTER MIN. LENGTH 450MM.
   IN THE CASE OF NEW CARRIAGEWAY CONSTRUCTION THE SUB-BASE LAYER IS EXTENDED 300MM BEYOND THE BACK OF KERB FOUNDATION.THE CONTRACTOR SHALL ALLOW FOR FILLING IN BETWEEN THE ROAD SUB-BASE AND THE FOOTWAY FORMATION WITH SUB BASE MATERIAL IN THE RATE FOR KERBING. RECONSTRUCTION OF EXISTING CARRIAGEWAY CHANNEL MEASURED SEPERATELY.
   KERBS LAID IN EXISTING CARRIAGEWAY FORMATION - INFILL OF OVERBREAK IN FRONT OF KERBS WITH CONCRETE TYPE ST2 TO BINDER COURSE FINISH LEVEL AND RESURFACE.
   CHANNEL STRIP 300MM WIDE AS REQUIRED.
   FOR FURTHER DETAILS REFER TO THE LOCAL AUTHORITY'S STANDARD DETAIL K1.

4. ALL KERB FACES ARE TO BE 125MM. APART FROM:
   a. 'VEHICLE DROPPED CROSSINGS' - THE KERB FACE IS TO BE 25MM.
   b. PEDESTRIAN DROPPED CROSSINGS = THE KERB FACE IS TO BE LAID FLUSH.
   (NOTE THAT THERE MUST BE A KERB FACE ON ALL PEDESTRIAN CROSSINGS UP TO A MAX OF 6MM. THIS IS REQUIRED TO FACILITATE DRAINAGE AND PREVENT FLOODING AT CROSSING POINT. THE KERBS MUST NOT BE LAID FLUSH).

5. THE S38/S278 FEE INCLUDES FOR THE LOCAL AUTHORITY MARKING OUT LOCATIONS OF THE COLUMNS ON SITE. NOTE THE FOLLOWING REQUIREMENTS FOR THIS TO HAPPEN:
   a. THE FOOTWAYS SHALL BE CONSTRUCTED TO FORMATION.
   b. THE FOOTWAYS SHALL BE CONSTRUCTED TO AT LEAST SUB-BASE (PREFERABLY BINDER COURSE) LEVEL, WITH THE KERBS & EDGINGS INSTALLED.
   IT IS ADVISABLE THAT THE DEVELOPER USES THE LOCAL AUTHORITY'S STREET LIGHTING ENGINEER TO SET OUT THE COLUMN LOCATIONS TO AVOID THE POSSIBILITY THAT THE COLUMNS NEED REPOSITIONING AT A LATER DATE.

6. THE CURRENT REQUIREMENT FOR TACTILE PAVING IS THE USE OF BUFF TACTILE BLOCK PAVING (NOT FLAGS OR STICK ON'S). FOR FURTHER INFORMATION REFER TO THE LOCAL AUTHORITY'S STANDARDS DETAIL F10 AND STANDARD DETAIL F11. PRIOR TO INSTALLING ANY TACTILE BLOCK PAVING THE EXACT LOCATION NEEDS TO BE DETERMINED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY. IT IS ADVISED THAT THIS IS UNDERTAKEN WHEN THE ASSOCIATED DROPPED & TAPER KERBS ARE ABOUT TO BE LAID.

7. IN ACCORDANCE WITH THE HIGHWAY (ROAD HUMP REGULATIONS) REGULATIONS 1996. THE HEIGHT OF THE TRAFFIC CALMING FEATURE MUST NOT EXCEED 100MM. THE REGULATIONS DO NOT ALLOW FOR ANY TOLERANCES. THEREFORE IF THE HEIGHT OF THE HUMP DOES EXCEED 100MM IT COULD BE CLASSED AS AN OBSTRUCTION AND WOULD NEED TO BE REPLACED SO THAT IT IS AT THE CORRECT HEIGHT.

8. PCC EDGINGS WILL BE REQUIRED FOR DEMARCATION BETWEEN PRIVATE DRIVEWAYS & ADOPTABLE DROPPED VEHICLE CROSSINGS.

9. PCC EDGINGS ARE TO HAVE A 50MM FACE UNLESS AGREED OTHERWISE WITH A REPRESENTATIVE OF THE LOCAL AUTHORITY. THEY ARE TO BE LAID FLUSH IN FRONT OF DRIVEWAY

10. CCTV SURVEYS WILL BE REQUIRED ON ALL HIGHWAY DRAINS (INCLUDING GULLY CONNECTIONS). ANY DEFECTS IDENTIFIED NEED TO BE RECTIFIED ACCORDINGLY.

11. ALL ROAD GULLIES WITHIN THE S38/S278 WORKS ARE TO BE DE-SILTED PRIOR TO ADOPTION

12. ALL NEW MANHOLE COVERS AND FRAMES IN THE S38/S278 WORKS ARE TO BE 150MM DEEP

13. ANY OVERRUNNING ISSUES IDENTIFIED, PRIOR TO ADOPTION, WILL NEED TO BE ADDRESSED BY THE DEVELOPER AND APPROVED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY.

14. WITH REGARDS TO THE REQUIRED 'TIE-IN' BETWEEN THE NEW CARRIAGEWAY SURFACING AND EXISTING REFER TO THE LOCAL AUTHORITY'S STANDARD DETAIL O5.

15. ALL EXISTING ROAD MARKINGS ARE TO BE RE-PAINTED ACCORDINGLY.

16. THE BACKFILL MATERIAL BETWEEN THE PIPE BEDDING/SURROUND AND THE HIGHWAY CAPPING/SUB-BASE LAYER IS TO BE EITHER MOT TYP1 OR SUITABLY SELECTED AS DUG MATERIAL WHICH MUST BE APPROVED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY PRIOR TO LAYING AND COMPACTING.

17. ALL PROPOSED ADOPTABLE & EXISTING ADOPTED F/WAYS ARE TO DRAIN INTO THE PROPOSED ADOPTABLE / EXISTING ADOPTED C/WAYS (NO EXCEPTIONS).

18. ANY PONDING ISSUES IN THE PROPOSED ADOPTABLE / EXISTING ADOPTED C/WAYS & F/WAYS NEED TO BE ADDRESSED BY THE DEVELOPER TO THE SATISFACTION OF THE LOCAL AUTHORITY, PRIOR TO THE ISSUE OF THE S38/S278 FINAL CERTIFICATE.

19. DRAINAGE CHANNELS FOR PRIVATE DRIVES ARE TO BE INSTALLED BEHIND THE PROPOSED ADOPTABLE FOOTWAY (I.E. BEHIND THE EDGING).

20. THE MANHOLE OPENINGS IN THE COVER SLABS ARE NE BE LOCATED AS NEAR TO THE KERBS AS POSSIBLE / ACCEPTED BY UNITED UTILITIES.

21. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ACCEPTED S38-S278 AGREEMENT DRAWINGS AND THE LOCAL AUTHORITY'S RELEVANT STANDARD DETAILS.

22. THE DEVELOPER WILL BE RESPONSIBLE FOR PAYING MANCHESTER'S REASONABLE COSTS FOR AMENDING THE TRO'S

23. THE EXACT LOCATIONS OF SIGNS, TACTILE PAVING, THE ROAD HUMP, ROAD MARKINGS, LIGHTING COLUMNS ARE TO BE DETERMINED WITH REPRESENTATIVES OF THE LOCAL AUTHORITY PRIOR TO INSTALLATION.

24. (A) "30ZONE SIGNS TO TSRGD 2016 DIAG. 674 - FACING TRAFFIC ENTERING THE DEVELOPMENT. (B) "END OF 20 ZONE ENDS SIGNS TO DIAG. 675 - FACING TRAFFIC LEAVING THE DEVELOPMENT.
   (C). THE DISTANCE FROM THE BOTTOM OF THE LOWEST SIGN TO THE FOOTWAY (GROUND LEVEL) IS TO BE A MINIMUM OF 2.4M.
   (D). IF THE SIGNS ARE TO BE LOCATED AT THE BACK OF THE FOOTWAY, INFRONT OF THE EDGINGS, THEN THE STEEL POST IS TO BE LOCATED SO THAT THE SIGNS DONT EXTEND BEYOND THE FOOTWAY INTO THIRD PARTY LAND.
   (E) IF THE SIGNS ARE TO BE LOCATED ADJACENT THE KERBS THEN THE DISTANCE FROM THE OUTSIDE EDGE OF THE SIGNS TO THE KERB FACE IS TO BE A MINIMUM OF 450MM.
   (F) THE SIGNS/SIGN PLATES ARE TO BE REFLECTORISED TO CLASS REF 2 (12899/2001).
   (G) THE FOUNDATION FOR THE STEEL POST IS TO BE ST4 CONCRETE.
   (H) ALL STEEL POSTS ARE TO HAVE PLASTIC TOPSAND BE 'ABCITE COATED' IN ACCORDANCE WITH BS8442. POST COLOUR GREY (REF. 693 IN BS08/16) AND MUST COMPLY WITH MCC STANDARD DETAIL T2.

   (I) POST SHALL BE CIRCULAR TO DIMENSIONS GIVEN IN APPENDIX 12/1 AND COMPLY WITH THE REQUIREMENTS OF BS 4866: PART 1.
   - POST SHALL EITHER BE GALVANISED IN ACCORDANCE WITH BS 729 OR BE PLASTIC COATED COLOURED GREY (UNLESS OTHERWISE STATED).
   - ALL POST SHALL HAVE HAMMER IN PVC POST CAPS.
   - FOUNDATIONS MAY BE CONSTRUCTED IN TWO PARTS:
   - UP TO SOCKET BASES (THIS MAY TAKE THE FORM OF A PRECAST CONCRETE SLAB OF THE REQUIRED THICKNESS OR BE CAST IN SITU

REMAINING FOUNDATION

FOUNDATIONS MAY BE CIRCULAR IN PLAN, PROVIDING THAT

- THE DIAMETER IS NOT LESS THAN THE VALUE OF 'Y' FOR THE EQUIVALENT RECTANGULAR FOUNDATION

THE TOTAL VOLUME OF THE CYLINDRICAL FOUNDATION IS NOT LESS THAN THE VOLUME OF THE EQUIVALENT RECTANGULAR FOUNDATION

- THE INSET DISTANCE OF THE OUTER POST FROM THE SIGN EDGE 'S', SHALL BE 50 MIN W/2N MAX. (WHERE W = OVERALL SIGN WIDTH AND N = NUMBER OF POSTS) UNLESS OTHERWISE SPECIFIED IN APPENDIX 12/1, FOR 'FLAG' TYPE SIGNS THIS VALUE OF 'S' APPLIES AT THE SQUARE END OF THE AT THE CHEVRON END THE POST SHALL BE INSET FROM THE POINT OF THE CHEVRON BY A DISTANCE 'F' MINIMUM VALUE OF H/3 (WHERE H = OVERALL SIGN HEIGHT), MIN VALUE W2N
- SIGN FACE CONSTRUCTION DETAILS AND FACING MATERIALS MUST COMPLY TO THE RELEVANT PARTS OF BS 873 AND ITS AMENDMENTS.
- ELECTRICAL CONNECTION DETAILS IN STANDARD DETAIL SL1

25. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ELLUC PROJECTS OTHER ACCEPTED S38-S278 AGREEMENT DRAWINGS AND THE LOCAL AUTHORITY'S RELEVANT STANDARD DETAILS. NOTE THAT IF THERE ARE ANY DISCREPANCIES THEN THE LOCAL AUTHORITY'S STANDARD DETAILS WILL TAKE PRECEDENCE.

Rev:	Description:	Date:	By:	Chkd:
L	TOPO IS SHOWN TO BE SAME AS S278 GENERAL ARRANGEMENT	24.06.25	ET	DW
K	UPDATED ACCORDING TO LATEST COMMENTS	28.04.25	ET	DW
J	UPDATED ACCORDING TO LATEST COMMENTS	18.12.24	ET	DW
H	TACTILE CONFIGURATION FOR JUNCTIONS ROADS 1 & 6 & REDGATE LANE HAVE BEEN REVISED IN ACCORDANCE WITH CLIENT COMMENTS	11.09.23	EK	ARA
G	TACTILE CONFIGURATION AT JUNCTIONS TO ROAD Y & 6 REVISED IN ACCORDANCE WITH CLIENT COMMENTS	09.06.23	EK	ARA
F	TACTILE CROSSINGS AT JUNCTIONS TO ROAD 1 & 6 REVISED AND EXTENT OF EXISTING FOOTPATH WORKS ON MOUNT ROAD AND KIRKMANSHULME LANE ADDED IN ACCORDANCE WITH RS82 COMMENTS	09.06.23	EK	ARA
E	BUS STOPS TO BE INSTATED ON KIRKMANSHULME LANE AND NEAR PINK BANK LANE IN ACCORDANCE WITH S278 MCC COMMENTS	21.11.22	EK	ARA
D	TACTILE CONFIGURATION REVISED ON REDGATE LANE IN ACCORDANCE WITH MCC S278 COMMENTS	20.10.22	EK	ARA
C	TACTILE CONFIGURATION REVISED AND KEY UPDATED IN ACCORDANCE WITH MCC S278 COMMENTS	10.08.22	EK	ARA
B	TACTILE CROSSINGS HAVE BEEN UPDATED AND EXISTING FOOTWAY FALLS HAVE BEEN ADDED IN ACCORDANCE WITH MCC S278 COMMENTS	17.06.22	EK	ARA
A	ADDITIONAL TOPOGRAPHICAL SURVEY ADDED, BULL NOSE KERB SPEC AND LEGEND UPDATED IN ACCORDANCE WITH MCC S278 COMMENTS	21.04.22	EK	ARA

Status: PRELIMINARY

Client: COUNTRYSIDE PROPERTIES

Project: BELLE VUE GREYHOUND TRACK GORTON

Drg Title: SECTION 278 KERBING LAYOUT

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1:500	A1	DEC 2021	EK	ARA

Drg No: ELL-18039-B-CS-551 **Rev:** L

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