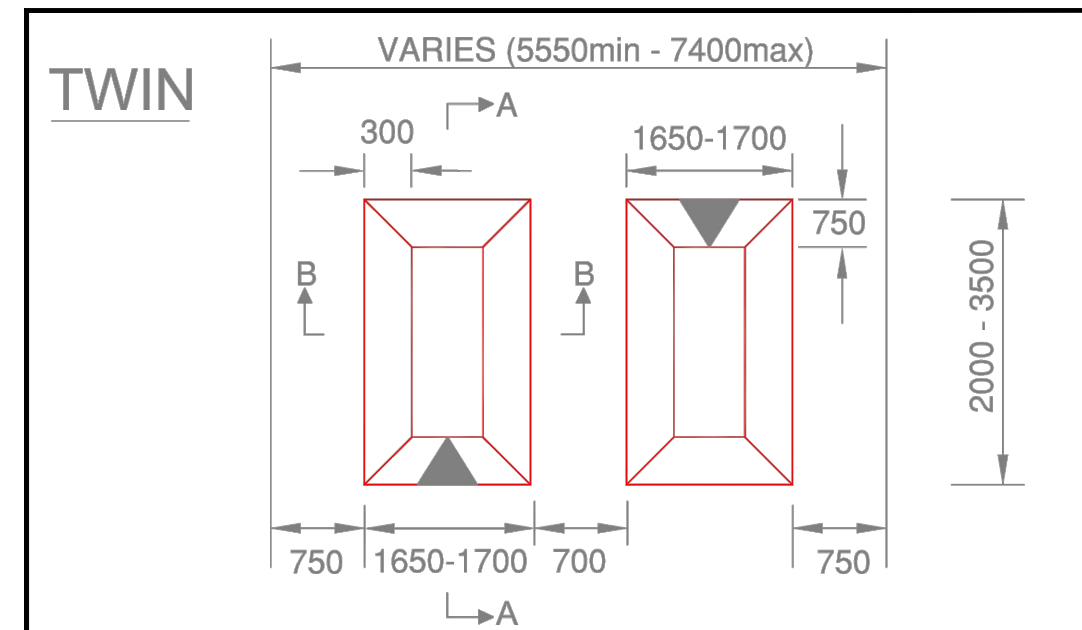
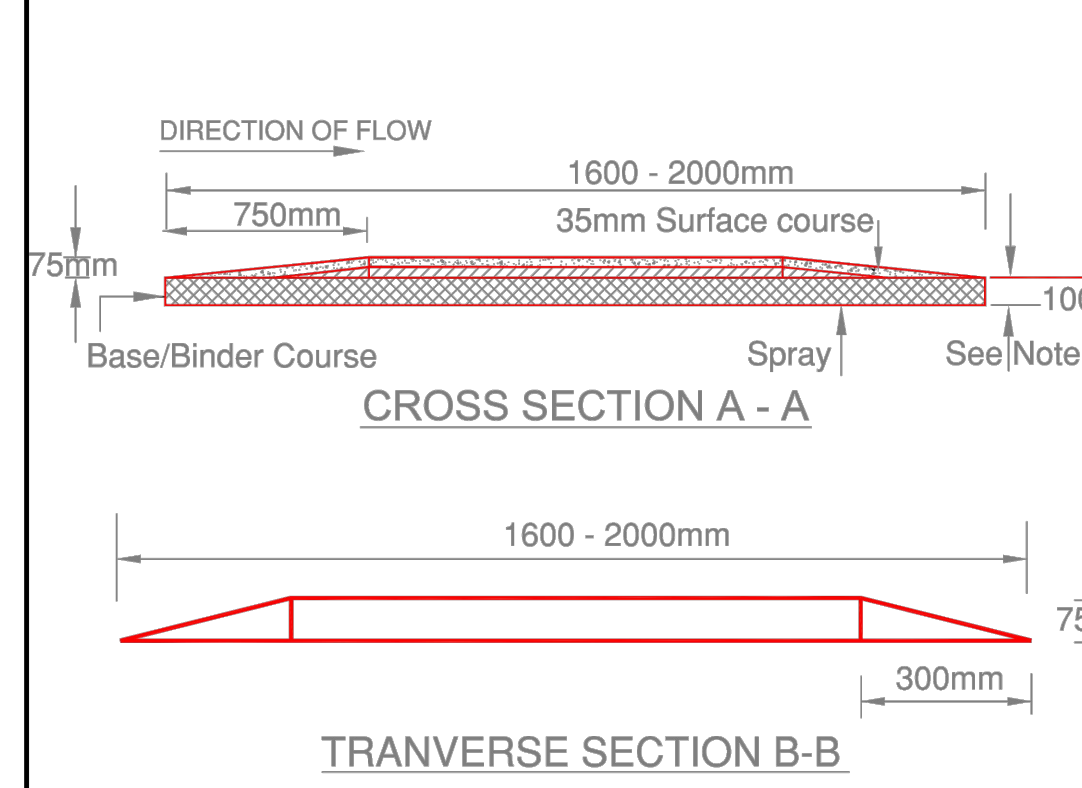
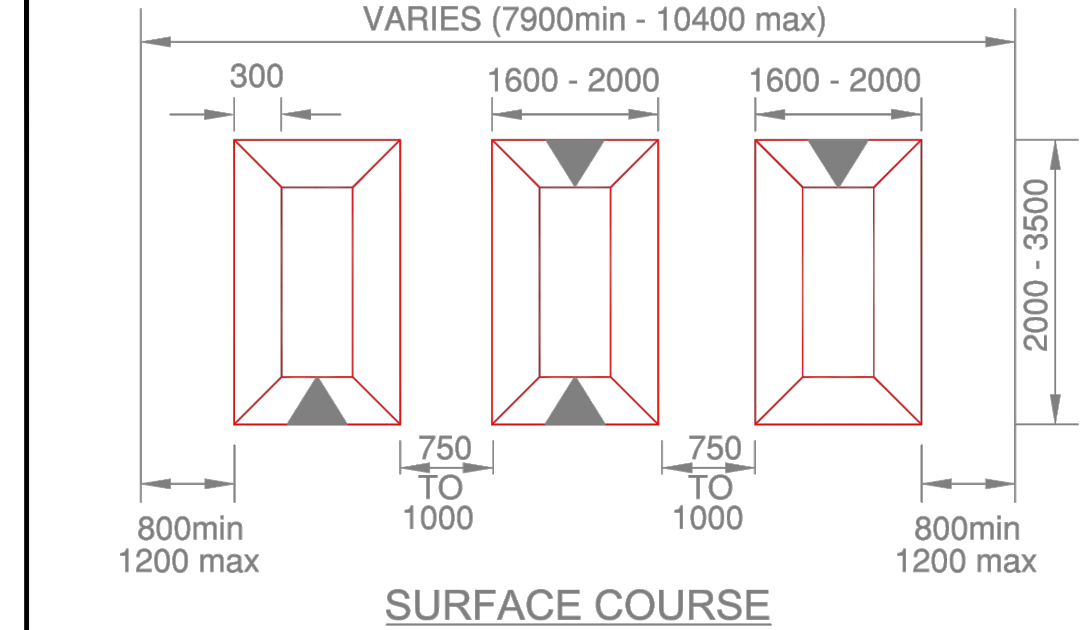


File Location: L:\01 - J05 LIVE\W04\082\07 - NORTHENDEN, MANCHESTER MILLER GRAPHIC INFRASTRUCTURE\02-ROAD CONSTRUCTION DETAILS.DWG

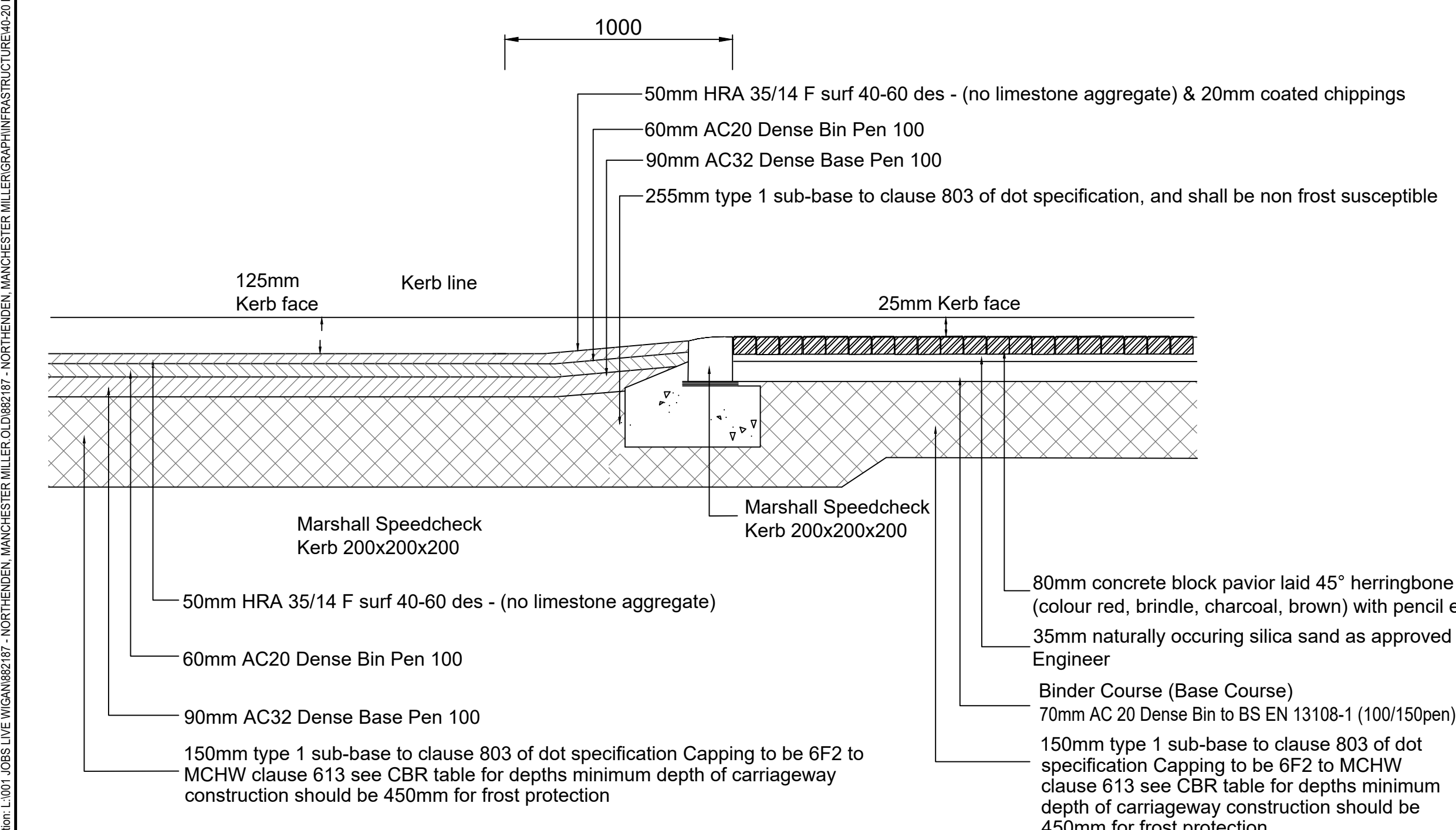
TWIN



TRIPLE



In Situ speed cushions

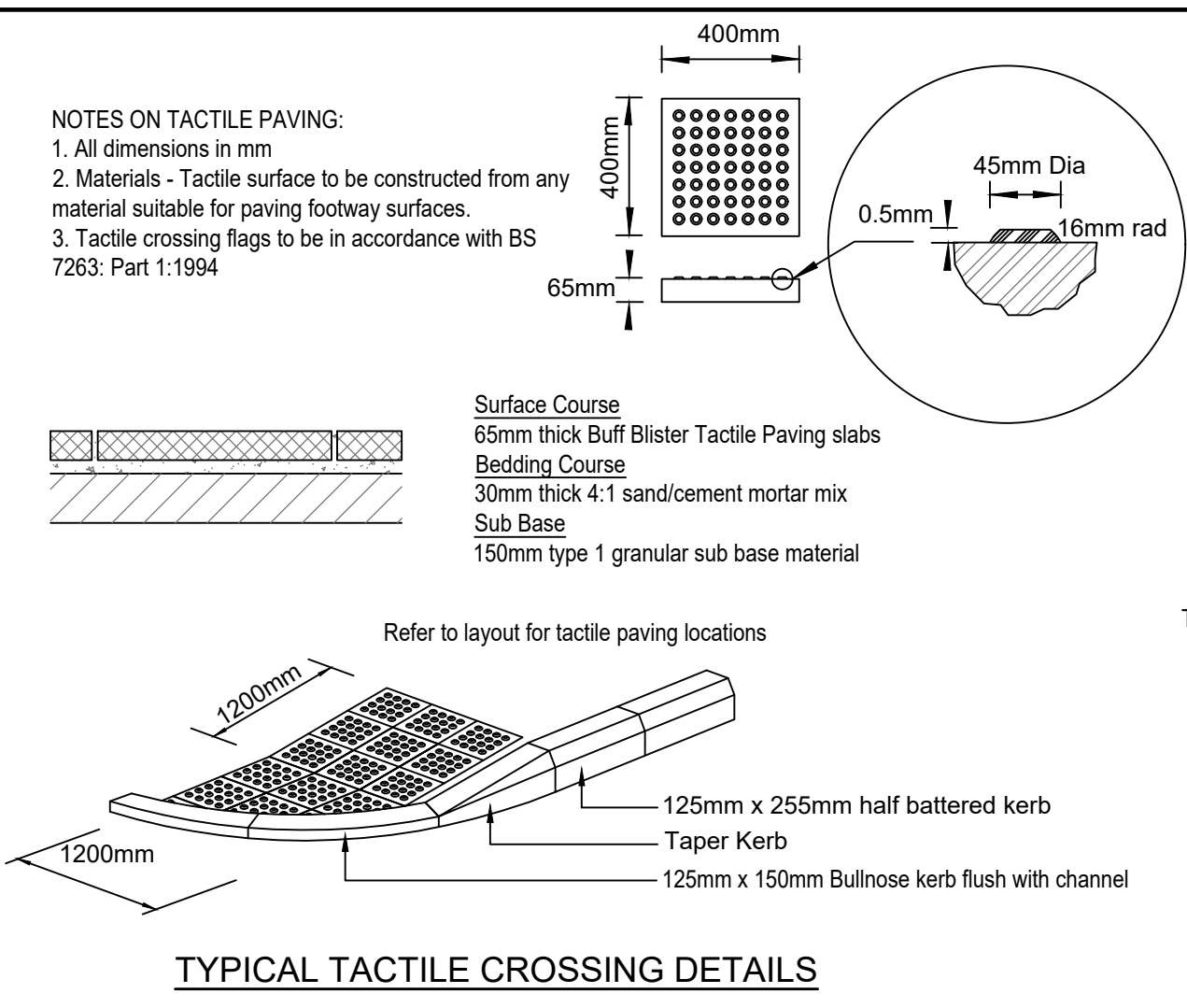


RAMP/RAISED TABLE DETAIL (Tegula Block)

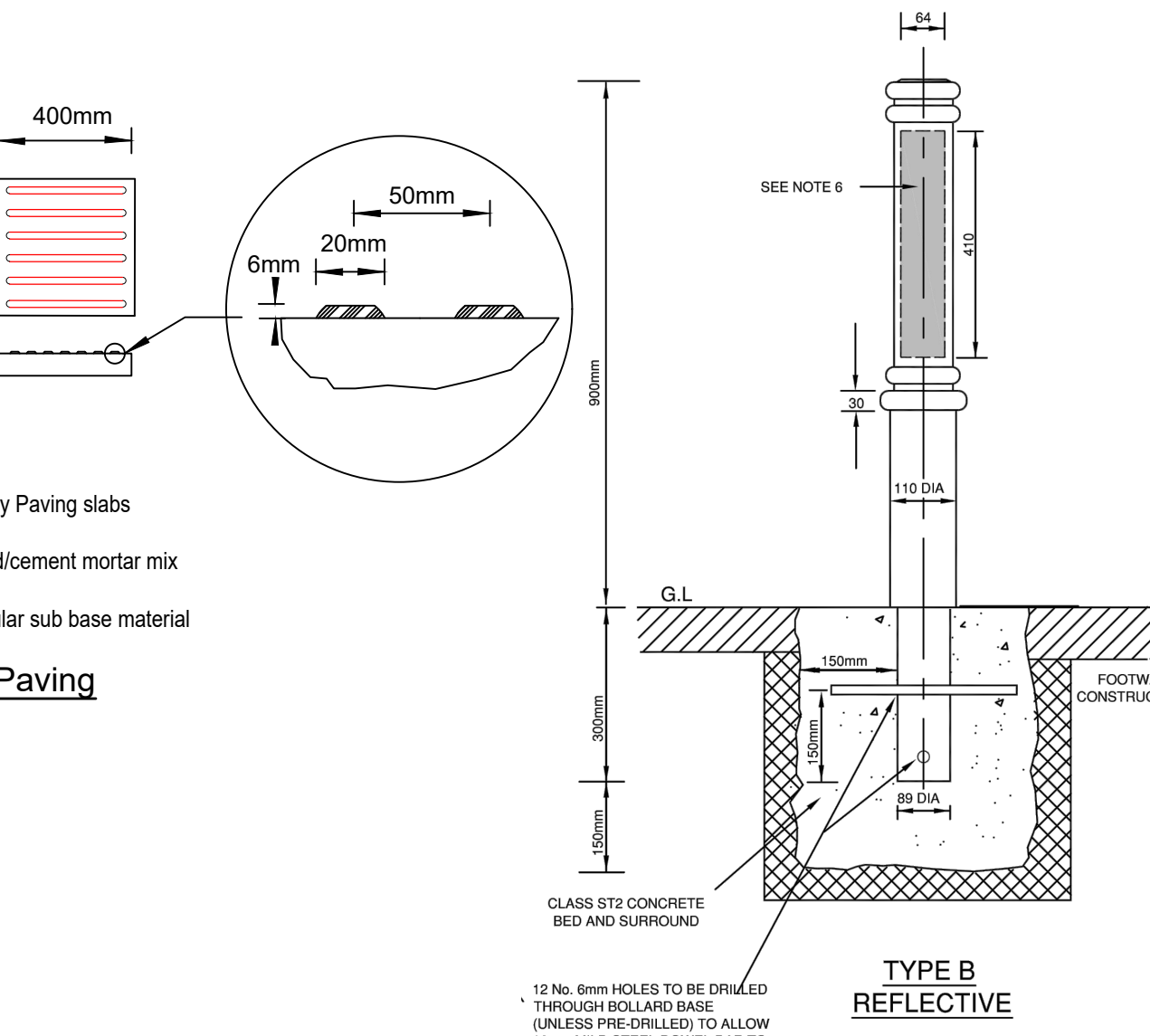
- CONSTRUCTION
1. SAW CUT AREA OF CUSHION
 2. SCARIFY OUT AREA
 3. BS90 BITUMEN SPRAY TACK COAT
 4. 140mm D.B.M BASECOURSE SHAPED TO FORM
 5. 35mm DBM WITH 14mm NOMINAL SIZE (AS DETAILED) BS EN 13108 AC6 DENSE SURFACE
 6. RED ZEBRAFLEX TO LEADING EDGE OF CUSHION
 7. DEPTH BELOW CARRIAGEWAY SURFACE TO BE A MAXIMUM OF 100mm OR AS DISCUSSED ON SITE SUBJECT TO EXISTING CONSTRUCTION
 8. DIMENSIONS OF CUSHION TO BE AS DETAILED IN BILL OF QUANTITIES.
 9. ALL MEASUREMENTS IN MILLIMETRES
 10. Tolerance on level measured longitudinally to be +12mm. Height of humps to be 75mm ±3mm
 11. For pre-built cushions and build out details see standard detail C16

- GUIDELINES
1. Gradients
 - a) Side ramp Max 1:4
 - b) ON/OFF ramp Max 1:10
 - c) ON/OFF ramp (curved) Max 1:5
 2. Width
 - a) STD 1650mm - 2000mm
 - b) Bus routes 1700mm Maximum
 - c) Width is governed by:
 - i) Carriageway overall width
 - ii) Type of traffic use
 3. Length
 - a) STD 2000mm
 - b) Mini bus and/or dedicated ambulance routes 3500mm
 4. Gap
 - a) STD gap between cushions 750mm

NOTE
For carriageway widths between 7400mm and 7900mm, adjust carriageway width if feasible to accommodate cushions twin or triple



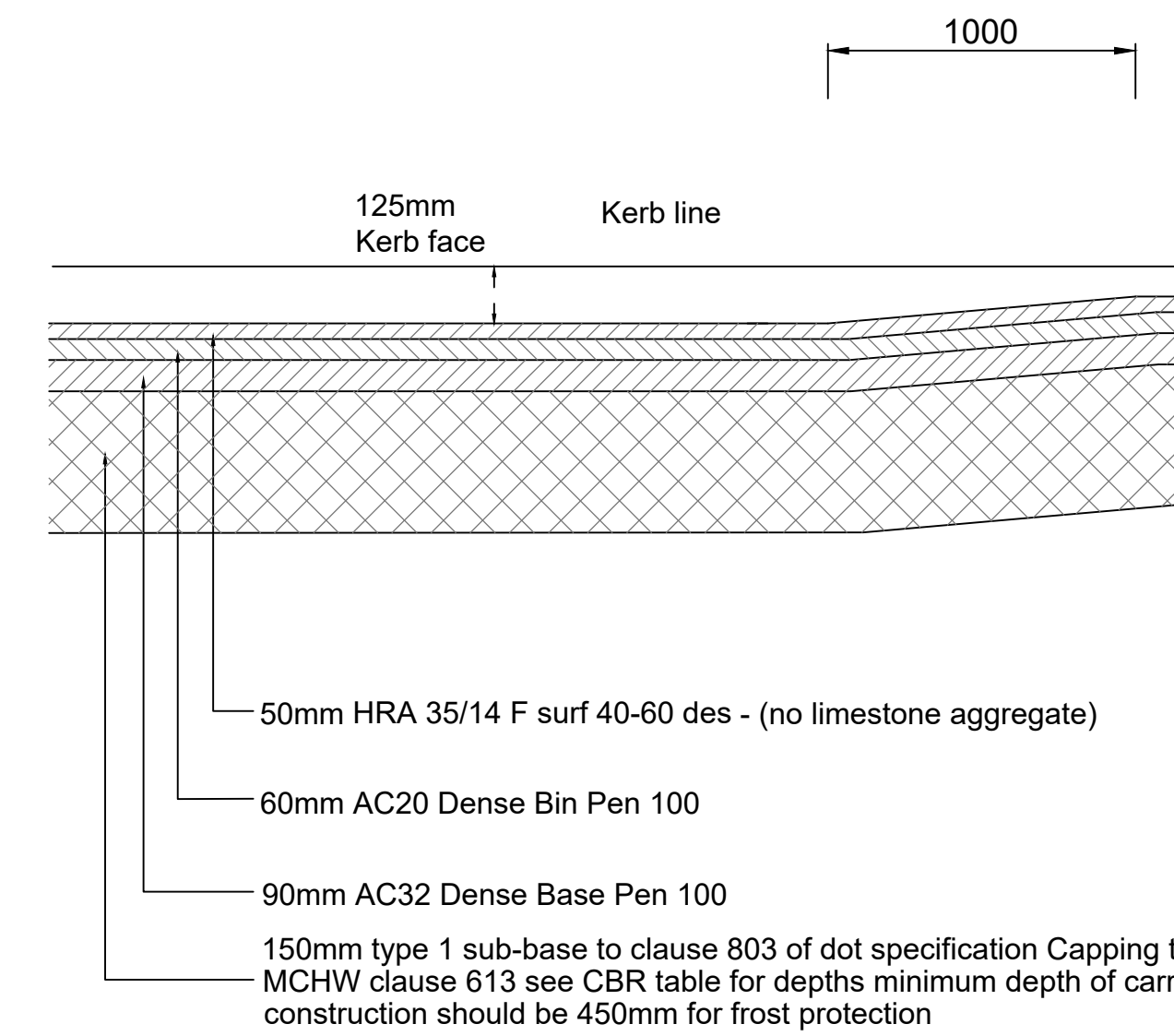
TYPICAL TACTILE CROSSING DETAILS



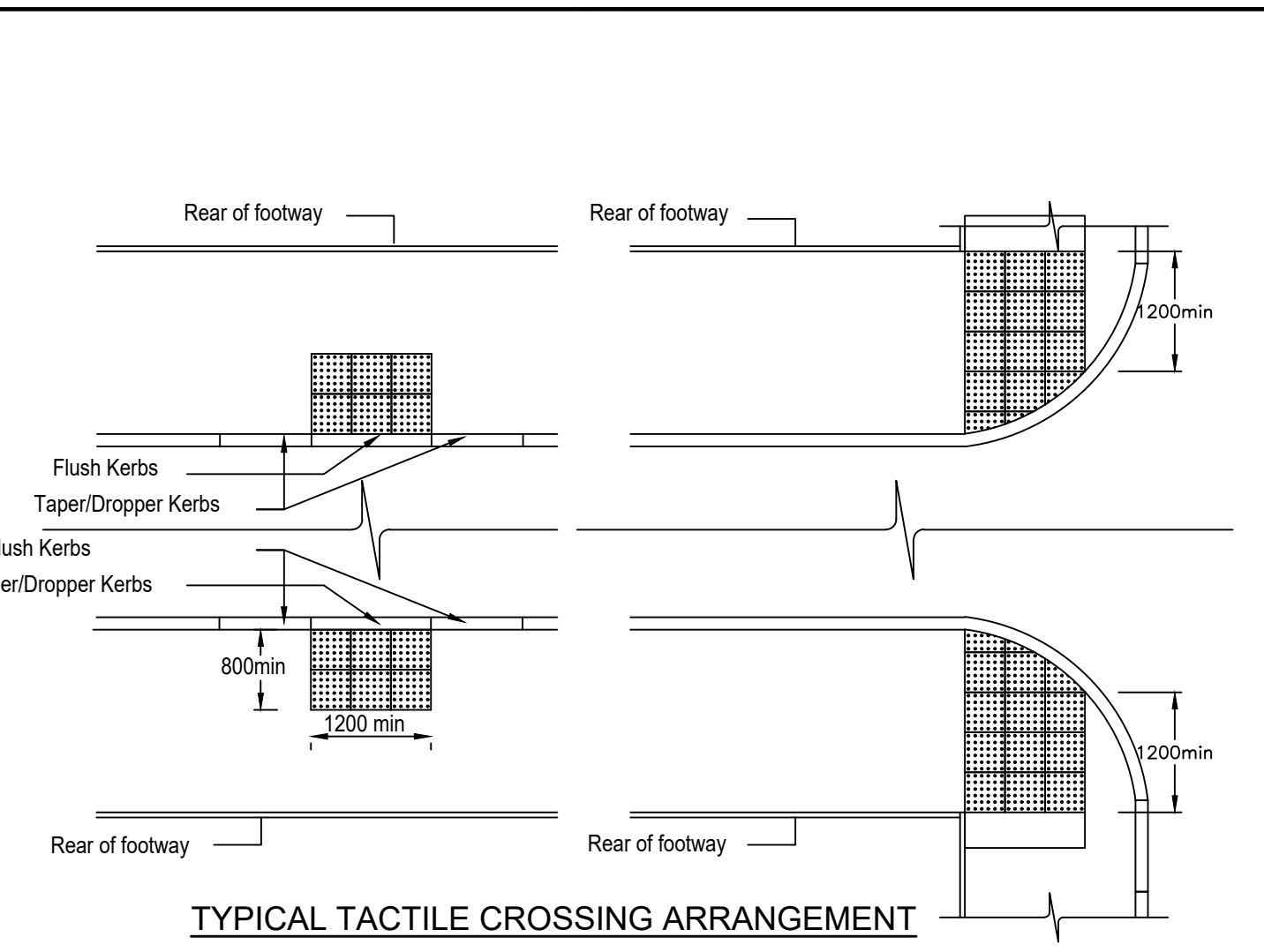
CORDUROY PAVING

- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES
 2. BOLLARD TO BE FERROCAST STEEL CENTRAL CORE
 3. POLYURETHANE CASTING MATERIAL TO BE THROUGH COLOURED TO MATCH FINAL COLOUR
 4. ALL CONCRETE TO CLAUSE 2602 TABLE 26/1
 5. COLOUR TO BE BLACK UNLESS OTHERWISE STATED
 - 6a. RECESS FOR BAND TO BE 2 to 3mm DEPTH 64mm WIDE AND 410mm LONG
 - 6b. TAPE TO BE RETRO-REFLECTIVE WHITE ONE SIDE. RED REVERSE OF BOLLARD
- AVAILABLE FROM:
BROXAP AND CORBY
ROWHURST INDUSTRIAL ESTATE, CHESTERTON
NEWCASTLE UNDER LYME, STAFFORDSHIRE, ST5 6BD
TEL: 01782 564 411
OR SIMILAR APPROVED

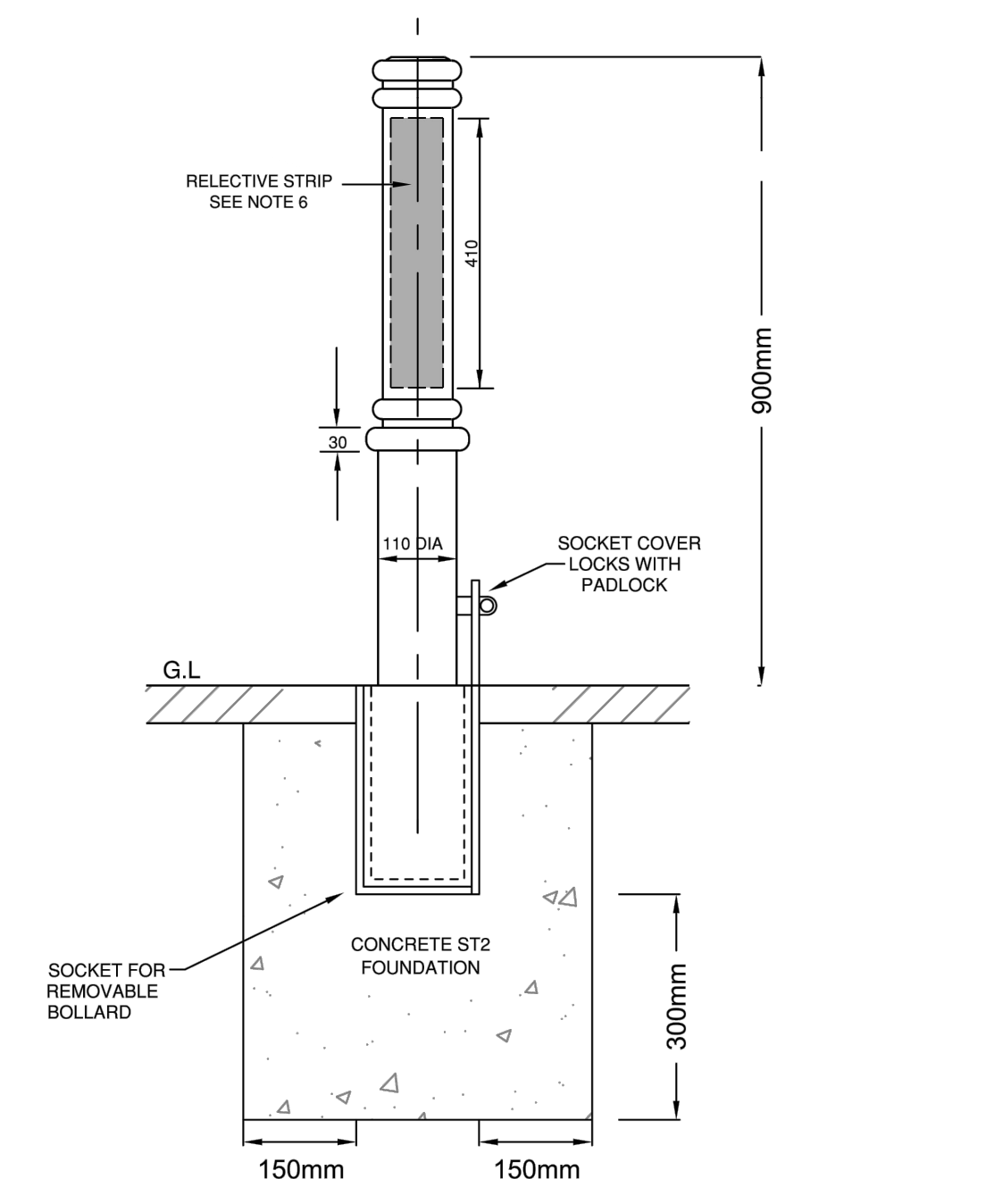
Fixed Morpeth Bollard



RAMP/RAISED TABLE DETAIL (Tarmac)



TYPICAL TACTILE CROSSING ARRANGEMENT



- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES
 2. BOLLARD TO BE FERROCAST STEEL CENTRAL CORE
 3. POLYURETHANE CASTING MATERIAL TO BE THROUGH COLOURED TO MATCH FINAL COLOUR
 4. ALL CONCRETE TO CLAUSE 2602 TABLE 26/1
 5. COLOUR TO BE BLACK UNLESS OTHERWISE STATED
 6. REFLECTIVE BOLLARD
 - a. RECESS FOR BAND TO BE 2 to 3mm DEPTH 64mm WIDE AND 410mm LONG
 - b. TAPE TO BE RETRO-REFLECTIVE WHITE ONE SIDE. RED REVERSE OF BOLLARD

Removable Morpeth Bollard

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

The highway and drainage works are subject to technical approval and may therefore change

Tactile Paving material should be concrete

ROCKER PIPES TO BE INSTALLED AT EACH ENTRY POINT INTO MANHOLE CHAMBER. ROCKER PIPES TO BE IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAILS

Notes
DO NOT SCALE.
ALL LEVELS ARE IN METRES.
ALL DIMENSIONS ARE IN MILLIMETRES.
DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
ALL BITUMINOUS MATERIALS ARE TO BE OBTAINED FROM AN APPROVED LOCAL AUTHORITY LICENCED SOURCE.
LIMESTONE AGGREGATE NOT TO BE USED IN SURFACE COURSES.
ALL ROAD OPENING NOTICES ETC. AS REQUIRED UNDER THE HIGHWAYS ACTS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS ON SITE. ALL WORKS ARE TO BE INSPECTED BY THE LOCAL AUTHORITY, NHBC, OR UNITED UTILITIES AS APPLICABLE.
ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.
ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CDM REGULATIONS 2007 ALONG WITH THE MAIN CONTRACTORS HEALTH & SAFETY PLAN.

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P9	06.06.23	Revised following MCC comments received 19.05.23	LGS	MAR	
P8	18.05.23	Revised following MCC comments received 16.05.23	LGS	MAR	
P7	09.05.23	Revised following MCC comments received 24.04.23	LGS	MAR	

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Client
miller homes

Project Title
Northenden Manchester

Status
DETAILED DESIGN

Drawing Title
Road Construction Details Sheet 2 of 3

Drawn AP	Date OCT '21	Checked MAR	Date OCT '21	Approved Date
Scale NTS	Orig Size A1	Dimensions m		

Project No.
882187

Drawing No.
40-20-02

Rev.
P9

Scale 1:250
0 2.5 5 7.5 10 12.5m