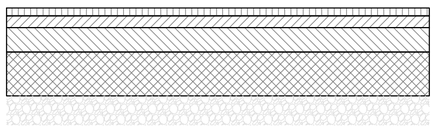
Scale NTS

RABY STREET



RABY STREET - STANDARD CARRIAGEWAY - FULL CONSTRUCTION

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 40mm THICK SURFACE COURSE (ESTIMATE)
MATERIAL: HRA 55/10 C SURF 40/60 PEN PSV 55 TO BS EN 13108-4

NOTE: EXISTING HIGHWAY SURFACING MATERIAL UNKNOWN DUE TO PREVIOUS SURFACE TOPPING & MAINTENANCE REGIME (HRA NOTED PRIOR TO 2015).

BINDER: 60mm THICK BINDER COURSE
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1

BASE COURSE: 125mm THICK BASE COURSE
MATERIAL: AC32 DENSE BASE 40/60 PEN TO BS13108-1

SUBBASE COURSE: 225mm THICK SUB BASE
MATERIAL: TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 SHW

SUB BASE THICKNESS BASED ON AN ASSUMED 5% CBR VALUE. CBR TESTS TO BE UNDERTAKEN AT THE PROPOSED FORMATION AND REPORTED TO THE CLERK OF WORKS AND THE ENGINEER.

CAPPING: TBC
MATERIAL: 6F1 DFT SHW CLAUSE 613 OR 6F2 WITH MIN 10% FINES

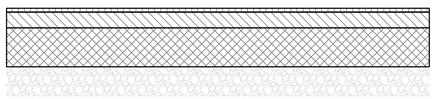
RABY STREET - STANDARD CARRIAGEWAY - RESURFACING ONLY

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 40mm THICK SURFACE COURSE (ESTIMATE)
MATERIAL: HRA 55/10 C SURF 40/60 PEN PSV 55 TO BS EN 13108-4

NOTE: EXISTING HIGHWAY SURFACING MATERIAL UNKNOWN DUE TO PREVIOUS SURFACE TOPPING & MAINTENANCE REGIME (HRA NOTED PRIOR TO 2015).

BINDER: THICKNESS VARIES
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1



STRENGTHEDN FOOTWAY CARRIAGEWAY - FULL CONSTRUCTION - VEHICLE CROSSING

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

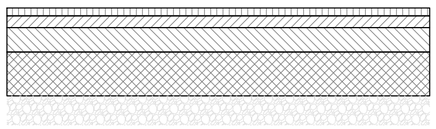
SURFACE: 20mm THICK SURFACE COURSE
MATERIAL: AC6 DENSE SURF 40/60 PEN TO BS13108-1

BINDER: 80mm THICK BINDER COURSE
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1

BASE COURSE: 200mm THICK SUB BASE
MATERIAL: TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 SHW

CAPPING: 150mm MIN TO ACHIEVE 450 mm OVERALL BUILD UP
MATERIAL: 6F1 DFT SHW CLAUSE 613 OR 6F2 WITH MIN 10% FINES

BARNHILL STREET



BARNHILL STREET - STANDARD CARRIAGEWAY - FULL CONSTRUCTION

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 40mm THICK SURFACE COURSE
MATERIAL: AC14 DENSE SURF 40/60 PEN TO BS13108-1

BINDER: 60mm THICK BINDER COURSE
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1

BASE COURSE: 125mm THICK BASE COURSE
MATERIAL: AC32 DENSE BASE 40/60 PEN TO BS13108-1

SUBBASE COURSE: 225mm THICK SUB BASE
MATERIAL: TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 SHW

SUB BASE THICKNESS BASED ON AN ASSUMED 5% CBR VALUE. CBR TESTS TO BE UNDERTAKEN AT THE PROPOSED FORMATION AND REPORTED TO THE CLERK OF WORKS AND THE ENGINEER.

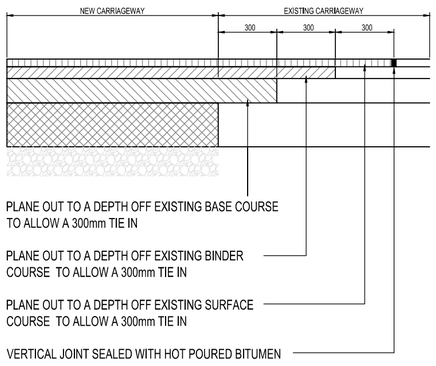
CAPPING: TBC
MATERIAL: 6F1 DFT SHW CLAUSE 613 OR 6F2 WITH MIN 10% FINES

BARNHILL STREET - STANDARD CARRIAGEWAY - RESURFACING ONLY

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 40mm THICK SURFACE COURSE
MATERIAL: AC14 DENSE SURF 40/60 PEN TO BS13108-1

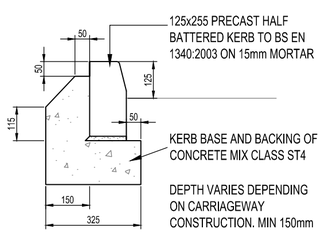
BINDER: THICKNESS VARIES
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1



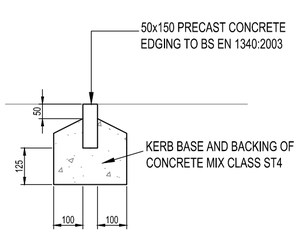
PROPOSED TO EXISTING CARRIAGEWAY TIE IN DETAIL

FULL CONSTRUCTION -NARROW STRIP

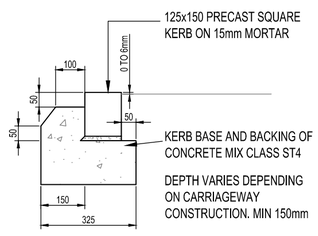
WHERE NEW CARRIAGEWAY CONSTRUCTION WIDTHS ARE LESS THAN 600mm WIDE THE BASE COURSE CAN BE OMITTED AND REPLACED WITH C20/25 CONCRETE



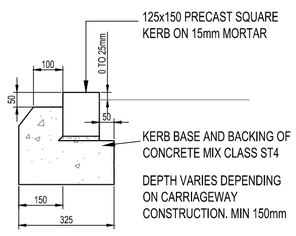
KERBING TYPE HB2



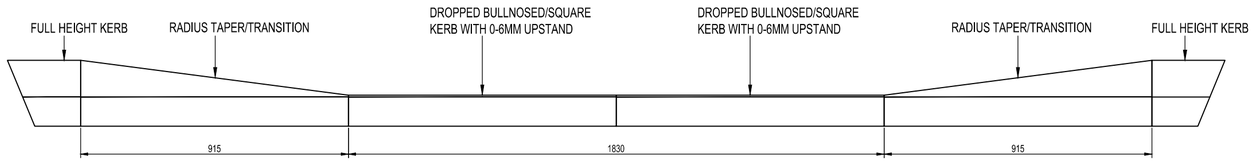
EDGING TYPE EF1



KERBING TYPE BN3 - PEDESTRIAN CROSSING

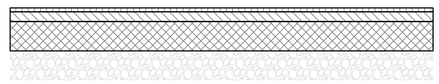


KERBING TYPE BN3 - VEHICLE CROSSING



DETAILED ELEVATION OF DROPPED KERB

FOOTWAY CARRIAGEWAY



FOOTWAY CARRIAGEWAY - FULL CONSTRUCTION

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 20mm THICK SURFACE COURSE
MATERIAL: AC6 DENSE SURF 40/60 PEN TO BS13108-1

BINDER: 50mm THICK BINDER COURSE
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1

BASE COURSE: 150mm THICK SUB BASE
MATERIAL: TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 SHW

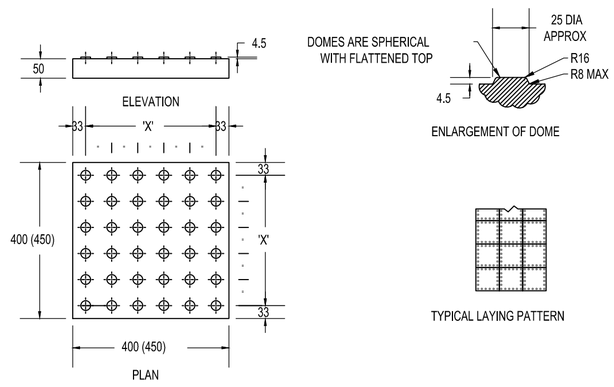
CAPPING: 230mm MIN TO ACHIEVE 450 mm OVERALL BUILD UP
MATERIAL: 6F1 DFT SHW CLAUSE 613 OR 6F2 WITH MIN 10% FINES

FOOTWAY CARRIAGEWAY - FULL CONSTRUCTION

MATERIALS AND WORKMANSHIP TO DEPARTMENT OF TRANSPORTS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1: SPECIFICATION FOR HIGHWAY WORKS INCLUDING ALL AMENDMENTS CURRENT AT DATE OF TENDER.

SURFACE: 20mm THICK SURFACE COURSE
MATERIAL: AC6 DENSE SURF 40/60 PEN TO BS13108-1

BINDER: THICKNESS VARIES
MATERIAL: AC20 DENSE BIN 40/60 PEN TO BS13108-1



CONCRETE PAVING FLAG FOR PEDESTRIAN CROSSINGS

NOTES:

1. WHERE APPLICABLE FLAGS SHALL BE LAID ON 100mm THICK GRANULAR TYPE 1 SUB-BASE MATERIAL, COMPACTED TO CLAUSE 802
2. FLAGS SHALL BE LAID TO THE REQUIRED CROSSFALLS AND BEDDED ON 10-40 THICK 10:1 SEMI-DRY SAND/CEMENT MORTAR.
3. ALL JOINTS TO BE NARROW BUTT JOINTS APPROX 3mm WIDE. A DRY 10:1 SAND/CEMENT MORTAR TO BE WELL BRUSHED INTO JOINTS AND ANY SURFACE MATERIAL SHALL BE REMOVED FROM THE FINISHED SURFACE.
4. JOINTS BETWEEN ADJACENT FLAGS TO BE FLUSH.
5. TOLERENCES - MAIN DIMENSIONS MAXIMUM 400, MINIMUM 396, ± 3, DOME HEIGHT ±1, OTHERS ±2. FOR 450 * 450 SLABS 'X' SHALL BE DIVIDED INTO SIX EQUAL PARTS, GIVING SEVEN ROWS OF DOMES EQUALLY SPACED. THE MAIN DIMENSION SHALL BE MAXIMUM 450, MINIMUM 446, ALL OTHER DIMENSIONS AS GIVEN.

General Pavement Notes

1. The specification for the works shall be Volume 1 of the Highways Agency's Manual of Contract Documents for Highway Works 'Specification for Highway Works' (SHW). All materials and workmanship shall be in accordance with the appropriate British Standards and SHW. All materials shall be kitemarked or produced within an approved quality assurance scheme.
2. The design of the carriageway pavement foundation is based on an assumed CBR value of 5%. The contractor shall establish the actual in-situ CBR values prior to commencement and inform the engineer should the CBR values differ from those predicted in the design.
3. All pavement materials used within 450mm of the proposed finished surface level shall be non-frost susceptible as defined in Clause 602.19 of SHW.

Asphalt Pavement Notes

1. All surface course materials must contain granite aggregate only. No limestone aggregates will be allowed.
2. All bituminous materials used this the proposed highway shall be machine laid unless approved otherwise.
3. All new and existing bitumen layers which are to be overlaid, shall receive a bond coat laid in accordance with BS594987 and Clause 920 of SHW. All vertical faces of ironwork within the proposed surface course depth, are to be coated with cold applied or hot bitumen immediately prior to the laying of the surface course.
4. Reinstatement and tie-in edges on existing footways and carriageways are to be saw cut to a clean vertical edge. The surfacing course shall be overlapped by at least 300mm, with the vertical joint receiving hot bitumen 50pen.
5. Existing carriageway and/or footway pavement construction shall be cut vertical to clean line/face prior to any adjacent excavation works.
6. The formation/ sub-formation is to be inspected by the Clerk of Works/ Inspector prior to commencing any work to ensure sub-grade is satisfactory.
7. Where reasonably possible, any surface course resurfacing is to extend/tie into existing joints.

Rev.	Description	By	Date
P02	TITLE BLOCK UPDATED	DOR	16.07.2026
P01	FIRST ISSUE / SUBMISSION	DOR	28.04.2026

Shepherd Gilmour Consulting Engineers
Phoenix House, 45 Cross Street, Manchester, M2 4JF
t: 0161 837 1500 w: www.sgiconsulting.co.uk

Client
Mosscare St Vincents Housing Group

Project
Land at Barnhill Street / Raby Street Moss Side, Manchester

Title
S278 Works Construction Details

Date	28.04.2026	Drawn By	DOR
Size	A1	Checked By	DOR
Scale	As Shown	Approved By	DOR

SGi Proj No.	RIBA	Status	Status
C1876	3	S1	PRELIMINARY

Proj No.	Orig	Vol.	Level	Type	Role	Dwg No.	Rev
C1876	SGI	ZZ	00	DR	C	278104	P02