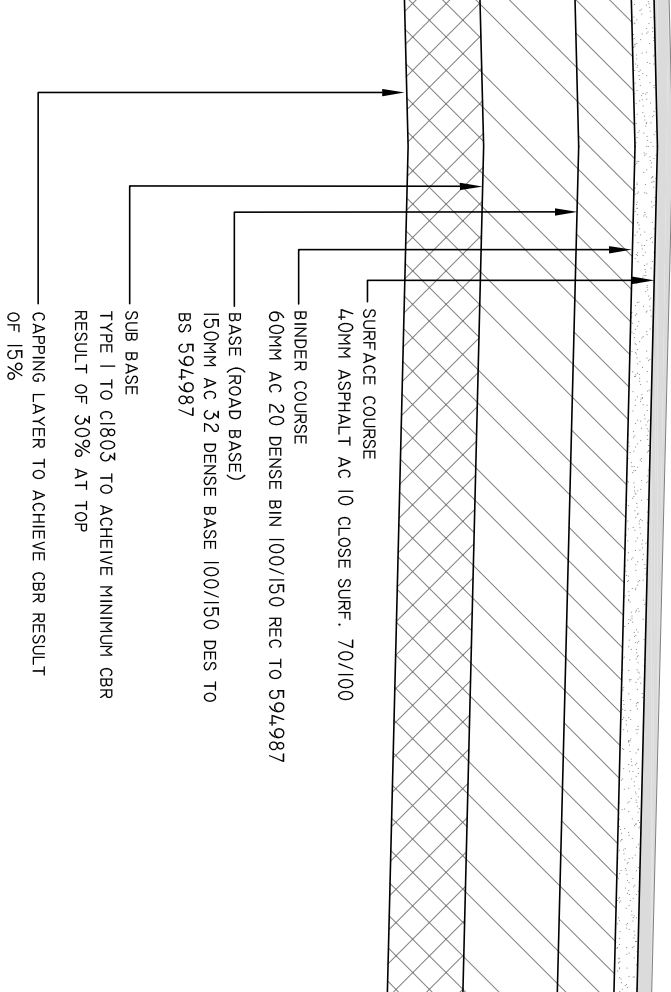
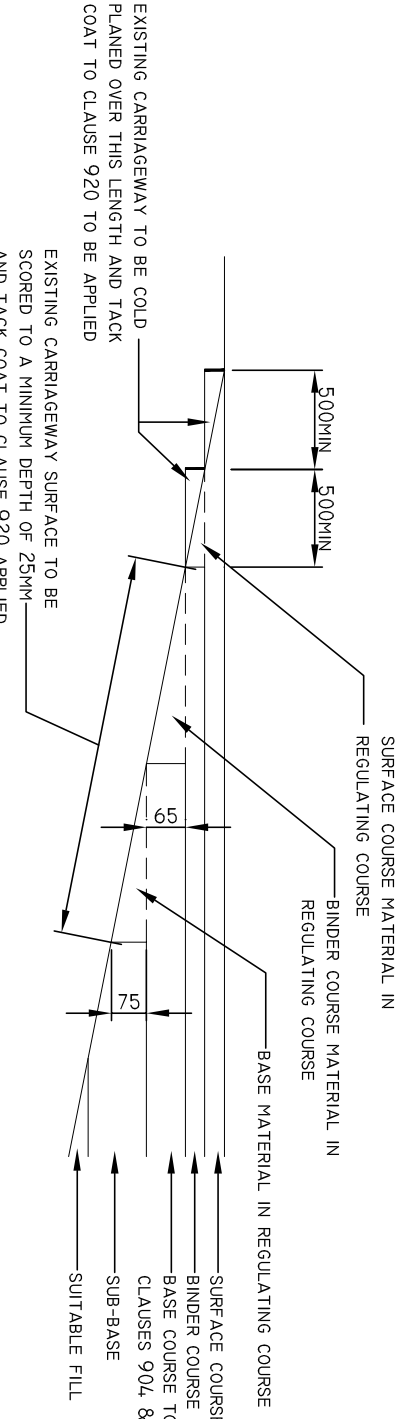
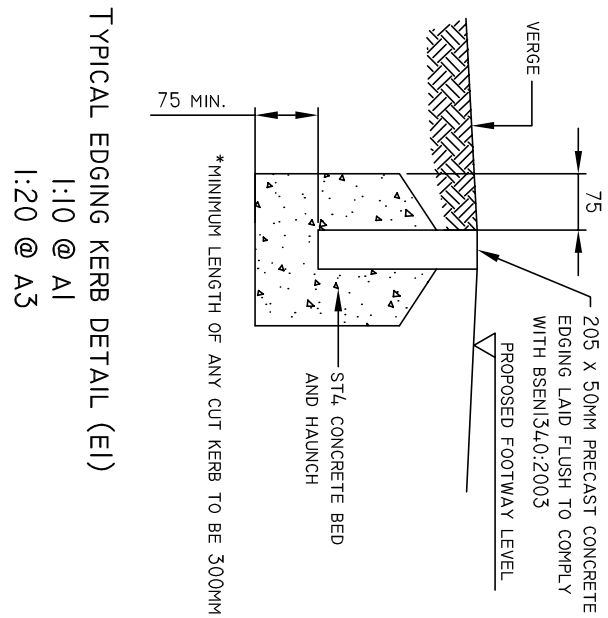
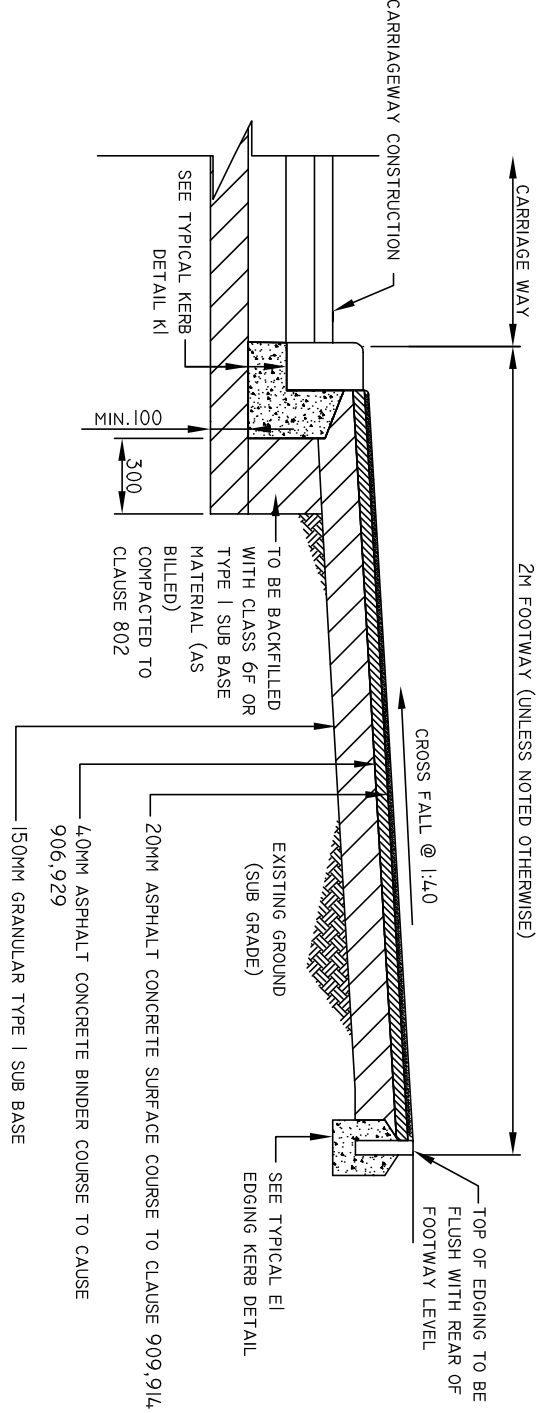


NOTES:

1. THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF BELL MUNRO CONSULTING LTD. THE DRAWING MUST NOT BE REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN AUTHORITY.
2. THIS DRAWING MUST NOT BE SCALED BY EITHER CONTRACTORS OR OTHER CONSULTANTS. ANY DIMENSIONS SHOWN ON THE DRAWING ARE TO BE REPORTED TO BELL MUNRO CONSULTING PRIOR TO CONSTRUCTION / FABRICATION COMMENCING.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE RELEVANT BNC SPECIFICATIONS TOGETHER WITH THE APPROPRIATE ARCHITECTS AND SERVICES CONSULTANTS DRAWINGS AND SPECIFICATIONS.
4. ALL PRECAST CONCRETE KERBS AND CHANNELS SHALL BE TO DOT SPEC. CLAUSE 101 & BS/263, IN PRESSED CONCRETE WITH HARDBONE AGGREGATE.
5. MINIMUM LENGTH OF KERB TO BE 450MM
6. HANDLING AND LAYING OF KERBS AND CHANNELS - THE CONTRACTOR SHALL AVOID THE MANUAL HANDLING OF PRECAST CONCRETE KERBS AND CHANNELS BY USING PURPOSE-MADE MECHANICAL LIFTING EQUIPMENT FOR THEIR HANDLING, LIFTING AND LAYING

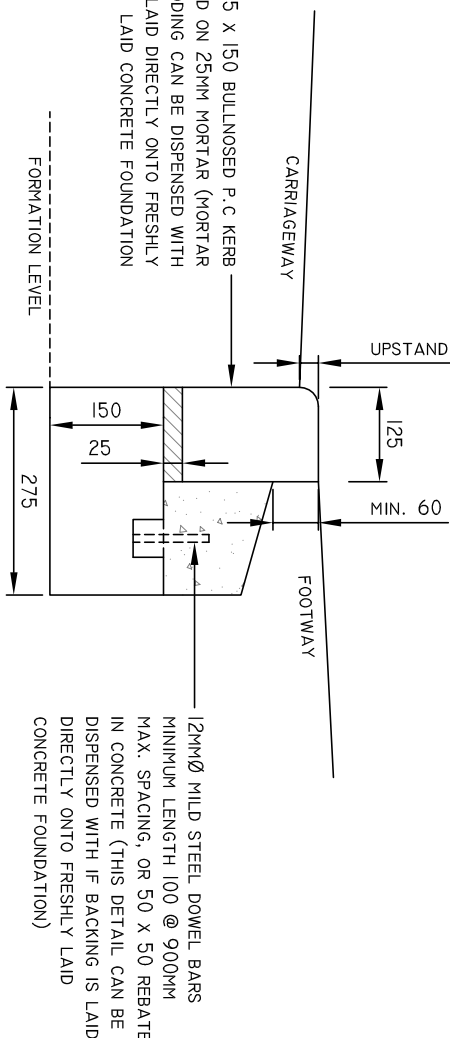


TYPICAL SECTION THROUGH HIGHWAY SHOWING
PROPOSED CONSTRUCTION
1:20 @ A1
1:40 @ A3



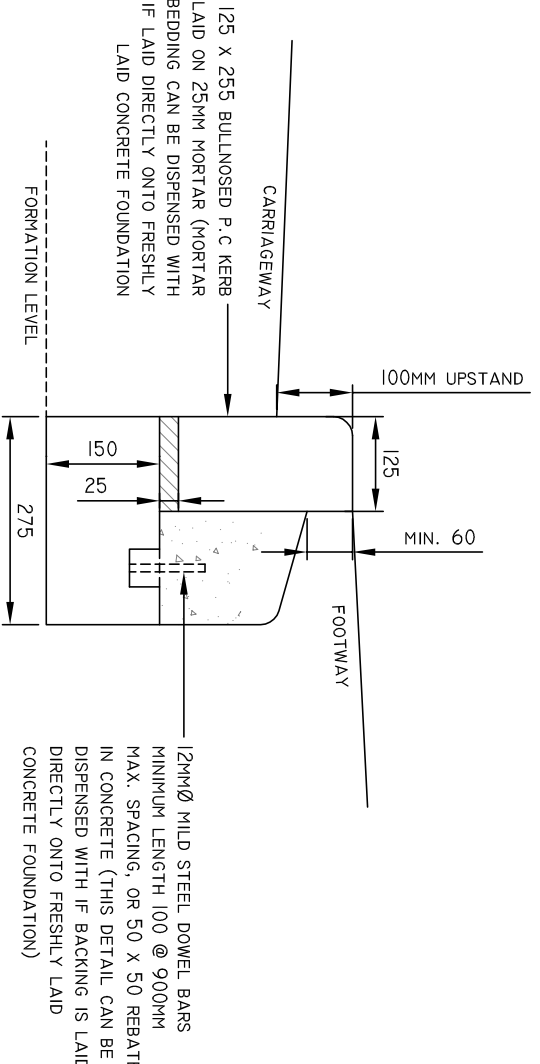
1. CLAUSE NUMBERS QUOTE REFER TO THE DTP SPECIFICATION FOR HIGHWAY WORKS AND AMENDED AS APPROPRIATE
2. SURFACE COURSE ASPHALT CONCRETE TO CLAUSE 909/914
3. BINDER COURSE ASPHALT CONCRETE TO CLAUSE 909/914
4. CHIPPINGS TO BE 10mm WHITE SPREAD AT 100g/m² (WHERE SPECIFIED)
5. BINDER COURSE ASPHALT CONCRETE TO COMPLY WITH CLAUSE 906/929
6. SUB-BASE TO BE 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97
7. SUB-BASE PROTECTION TO BE IN ACCORDANCE WITH CLAUSE 615
8. IN THE CASE OF FOOTWAY ADJACENT TO BUILDING FRONTAGES, ATTENTION SHOULD BE PAID TO THE BUILDINGS DAMP PROOF COURSE (DPC) LEVEL. NEW FOOTWAY SHOULD BE SET AT LEAST 100mm BELOW THE DPC

TYPICAL SECTION THROUGH FOOTPATH
SHOWING PROPOSED CONSTRUCTION
1:20 @ A1
1:40 @ A3



1. CONCRETE BEDDING AND BACKING SHALL BE TYPE ST1 TO CLAUSE 2602 TABLE 26/1
2. KERBS SHALL COMPLY WITH BS EN 1340
3. CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS EN 197-1
4. JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR TO CLAUSE 240L
5. JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR TO CLAUSE 240L
6. IN THE CASE OF NEW CARBAMIDEWAY CONSTRUCTION, THE SUB-BASE LAYER IS EXTENDED 100mm BEYOND THE BACK OF THE KERB FOUNDATION. THE CONTRACTOR SHALL ALLOW FOR FILLING IN BETWEEN THE ROAD SUB-BASE LAYER AND THE CARBAMIDEWAY CONSTRUCTION. THE SUB-BASE LAYER SHALL BE 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97
7. FOUNDATION DETAIL FOR TAPER KERBS WILL BE AS PER FOUNDATION FOR 150mm X 150mm KERBS
8. 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97
9. 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97
10. 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97

DROPPED KERB CONSTRUCTION DETAIL
(K1)
1:10 @ A1
1:20 @ A3



1. CONCRETE BEDDING AND BACKING SHALL BE TYPE ST1 TO CLAUSE 2602 TABLE 26/1
2. KERBS SHALL COMPLY WITH BS EN 1340
3. CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS EN 197-1
4. JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR TO CLAUSE 240L
5. JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR TO CLAUSE 240L
6. IN THE CASE OF NEW CARBAMIDEWAY CONSTRUCTION, THE SUB-BASE LAYER IS EXTENDED 100mm BEYOND THE BACK OF THE KERB FOUNDATION. THE CONTRACTOR SHALL ALLOW FOR FILLING IN BETWEEN THE ROAD SUB-BASE LAYER AND THE CARBAMIDEWAY CONSTRUCTION. THE SUB-BASE LAYER SHALL BE 150mm AC 32 BRNS BASE 100/150 DES TO BS 394/97

BULL NOSED KERB CONSTRUCTION DETAIL
(K1)
1:10 @ A1
1:20 @ A3

NOTES ON KERBING & EDGING:

- ALL PRECAST CONCRETE KERBS SHALL BE TO DOT SPEC. CLAUSE 1101 & BS/263, IN PRESSED CONCRETE WITH HARDBONE AGGREGATE.
- SPECIAL TAPER KERBS SHALL BE USED FOR RADII OF 12.0m OR LESS.
- EDGING KERBS SHALL BE 50 X 205mm TYPE EF FLAT TOPPED TO BS/263.
- THE KERB RACE SHALL NOT BE LESS THAN 325mm WIDE X 150mm DEEP CAST IN SITU, COMPACTED WITH A VIBRATING POKER OR TAMPED LEVEL WITH A ROUGH FACE
- KERBS SHALL NOT BE LAID ON LESS THAN 100mm AND NOT GREATER THAN 100mm OF BEDDING MORTAR TO DOT SPEC. CLAUSE 2601.
- IMMEDIATELY AFTER LAYING, KERBS SHALL BE BACKED AND/OR HAUNCHED WITH MAX ST1 CONCRETE.
- ALL JOINTS BETWEEN KERBS SHALL BE UNPOINTED AND NOT GREATER THAN 2mm WIDE

NOTE: ALL HIGHWAY DETAILS ON THIS DRAWING ARE BASED ON THE DESIGN ASSUMPTION THAT THE GROUND HAS A CBR OF 15%. CONTRACTOR IS TO MAKE AN ALLOWANCE FOR PERFORMING LOCAL CBR TESTS TO CONFIRM THIS. SHOULD THE CBR VALUE DIFFER FROM THAT ASSUMED, BELL MUNRO CONSULTING IS TO BE INFORMED AND DETAILS UPDATED ACCORDINGLY.

FURTHER NOTES

SUB GRADE TO BE INSPECTED AND APPROVED BY HIGHWAY AUTHORITY INSPECTOR PRIOR TO LAYING OF GSB.

CONTRACTOR SHALL ALLOW TO BLAST CLEAN OFF ANY ROAD MARKINGS (USING HIGH PRESSURE WATER SYSTEM OR SIMILAR APPROVED) THAT ARE NOT REQUIRED FOLLOWING THE COMPLETION OF THE WORKS.

THE DEVELOPER OR HIS AGENT SHALL LIAISE WITH MANCHESTER CITY COUNCIL AND AGREE A METHOD OF TRAFFIC MANAGEMENT PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.

BMC		BELL MUNRO CONSULTING LTD	
CONSULTING CIVIL & STRUCTURAL ENGINEERS		CONSULTING CIVIL & STRUCTURAL ENGINEERS	
15, NEW STREET, MANCHESTER, M2 1BB		15, NEW STREET, MANCHESTER, M2 1BB	
TEL: 0161 275 1111		TEL: 0161 275 1111	
FAX: 0161 275 1112		FAX: 0161 275 1112	
EMAIL: WWW.BELLMUNRO.CO.UK		EMAIL: WWW.BELLMUNRO.CO.UK	
CLIENT: ABRAMHAM HALPERN		PROJECT: LAND OFF CRESCENT ROAD, CRUMPSALL	
TITLE: HIGHWAY DETAILS		DATE: 11/17	
DRAWN BY: KF		CHECKED BY: SJB	
DESIGN NUMBER: J4284/HW05		REVISION:	