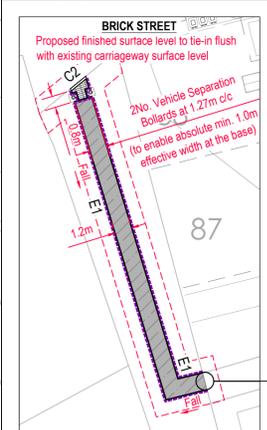
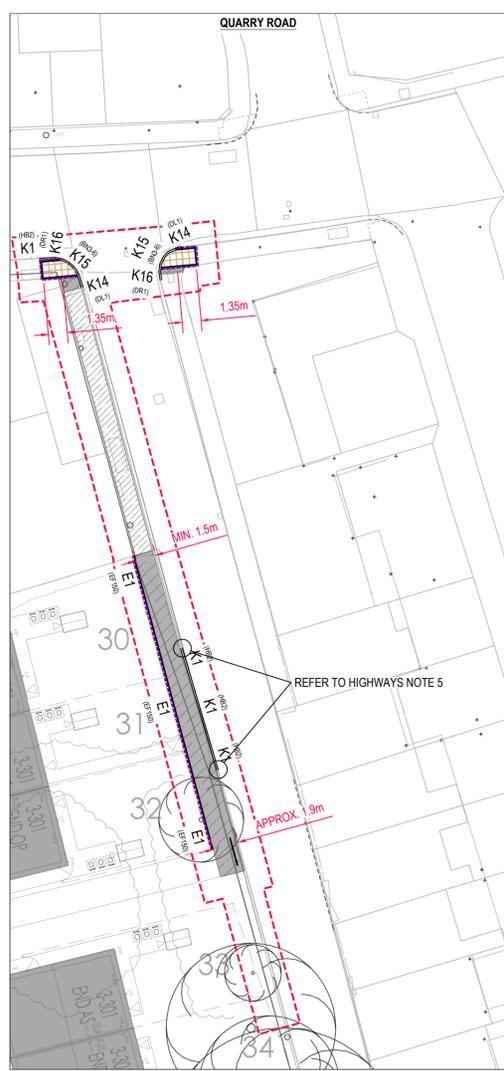


- Key:**
- Proposed kerb line.
 - K1** 125mm x 255mm half battered precast concrete kerb with a 100mm upstand.
 - K15 (a)** 125mm x 150mm bull-nosed precast concrete kerb with a 0-6mm upstand.
 - K4 (30)** 125mm x 150mm bull-nosed precast concrete kerb with a 30mm upstand.
 - K14 / K7** Dropper (left hand) precast concrete kerb - from HB2 to BN3 (upstand varies).
 - K16 / K8** Dropper (right hand) precast concrete kerb - from BN3 (upstand varies) to HB2.
 - E1** 50mm x 150mm flat top edging precast concrete kerb laid flush.
 - C2** 125mm x 150mm square channel precast concrete kerb laid flush.
 - Topsoil - seeding with perennial ryegrass slow growth to British Seed House's mix A2 at a rate of 30g/m². See Highways Note 10.
 - FOOTWAY CONSTRUCTION TYPE 1 (FOOTWAY ONLY)**
 - 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
 - 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
 - 0-50mm Asphalt Concrete Regulating Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
 - FOOTWAY CONSTRUCTION TYPE 1a (FOOTWAY RESURFACING)**
 - Specification shall be as per Type 1 construction but with existing foundation to remain - surfacing levels shall be registered to repair any instances of vehicle failure.
 - 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
 - 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
 - FOOTWAY CONSTRUCTION TYPE 2 (VEHICLE CROSS-OVER)**
 - 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
 - 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
 - FOOTWAY CONSTRUCTION TYPE 3**
 - 400mm x 400mm x 70mm Concrete Blister Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. BUFF coloured for accommodated crossings. Laid in accordance with BS 7533 & DETR guidance.
 - 25mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
 - 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
 - FOOTWAY CONSTRUCTION TYPE 4**
 - 400mm x 400mm x 70mm Concrete Blister Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. BUFF coloured for accommodated crossings. Laid in accordance with BS 7533 & DETR guidance.
 - 30mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
 - 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
 - FOOTWAY CONSTRUCTION TYPE 5**
 - 400mm x 400mm x 50mm BUFF coloured Concrete Corduroy Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. Laid in accordance with BS 7533 & DETR guidance.
 - 30mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
 - 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
 - Proposed Marshalls' Bridgford or equal approved bollard to KC Type B1.
 - High Visibility Pedestrian Guardrail - Alpha V8 Optiral or equal approved.
 - Extent of 278 works.



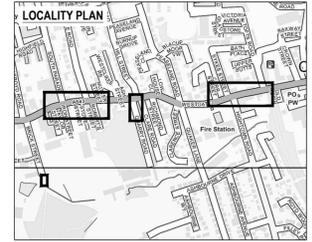
PROPOSED ROUTE TO CONNECT THE PROPOSED SITE FOOTWAY IN TO THE EXISTING METALLED SURFACE OF BRICK STREET (PROVIDING CONTINUOUS FIRM INFRASTRUCTURE WITH NO SOFT OR UNSTABLE GROUND WITHIN DESIRE LINE)

REFER TO SECTION 38 DRAWINGS FOR CONNECTED ESTATE DETAILS



- General Notes:**
- DO NOT USE THIS DRAWING IN ISOLATION. This drawing has been prepared as part of a set, and must therefore be read in conjunction with all other drawings. Any discrepancies or design queries must be reported to the engineer prior to completion of tender and commencement of works. Following completion of tender it is assumed that developer and Contractor are in full agreement with the design drawings (with the exception of pre tender queries only).
 - Third party information is used to prepare the engineering design (including architectural layout, ground investigation, existing utilities records, and specialist design items). The engineering design must therefore be read in conjunction with all third party information prior to commencing work. Queensberry Design Ltd are not responsible for any third party information or details.
 - House type working drawings are to be used in conjunction with the plot setting out drawing.
 - Drawing status will remain preliminary until full technical approval is received from local authority and sewerage undertaker. Works commenced prior to technical approval are done so at risk and may be subject to change.
 - The Contractor is expected to prepare appropriate construction method statements for all aspects of appointed work. This should include any temporary protection works.
 - Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be assessed by the ground worker and landscaper during construction and placement of gardens on an individual plot basis. If land drainage designs are required, they should be appointed prior to plot completion.
 - The Contractor is expected to cross check all drainage inverts prior to commencing work, this may involve completion of trial holes if invert levels have been interpolated.
 - The Contractor must monitor the 'as built' progress of each construction stage (roads/sewers/pipes works/ etc), to enable the next stages of construction to be checked before installation. For this reason the design of, floor levels, external works, retaining walls, and plot drainage are to be read as guidance only.
- Highways**
- All highway works to be carried out in accordance with the Design Manual for Roads and Bridges (DMRB); the Manual of Contract Documents for Highway Works, Specification for Highway Works (MCHW SHW) and the current local authority highway design guide.
 - All excavations below proposed and existing highways to be back-filled with granular type 1 sub-base and well compacted in layers not exceeding 150mm, unless otherwise agreed.
 - Highway authority to be notified by the Contractor prior to the commencement of works.
 - All precast concrete kerbs, edgings, and quadrants shall conform to BS EN 1340 and shall be laid and bedded in accordance with BS 7533-6 and BS 8500-2.
 - Any differences in level proposed at the time in between proposed and existing are to be taken out over a 3m transition length and upstands at this point are to match existing.
 - Existing carriageway to be saw cut to accept new kerb. Any void between kerb face and existing pavement to be filled with bituminous sealant.
 - Where ST1 or ST4 concrete is used, it is to be in accordance with BS EN 8500-1 & 2, BS EN 206-1 MCHW SHW Cl. 1101 & 2602.
 - Due to the weight of standard kerb units, full consideration must be given by the Contractor to use of lifting equipment including use of short length lifts or mechanised hand handling and laying equipment. The Contractor must ensure compliance with health and safety requirements 'manual handling operators regulations 1992 (ref: HSE L23, as amended 2016)'.
Kerbs of less than 300mm in length shall not be incorporated into the works.
 - Areas for seeding are to receive a minimum 150mm topsoil; free from surface stone, weeds and any other debris. Topsoil to be raked smooth and treated with non-residual weed killer and in-seeding fertilizer before seeding.
 - Kerbs of less than 300mm in length shall not be incorporated into the works.
 - Refer to drawing sheet number QD1776-0700-21 and 'Kirklees Highways Standard Details 2022 to 2024' for construction details.
 - All construction aggregate including those such as concrete and asphalt concrete to be equally sourced and used in accordance with BS EN 13043 and 13242.
- Existing Services**
- Any existing services which may be affected by the proposed works should be located by means of a hand dig in close liaison with the statutory service authorities. The Contractor shall inform the developer of any services that may affect the proposed design. Contractor to notify statutory service authorities prior to commencement of work.
- As Constructed Information**
- Refer to General Note 8 above. It is the Contractors responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract:
- Position/co-ordinates of all adoptable manholes.
 - Invert and cover levels of all adoptable manholes.
 - New gully positions and connections.
 - Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, staking size and number of ducts.

CONTRACTOR TO NOTE THAT MATERIALS TESTING IS REQUIRED THROUGHOUT THE CONTRACT. THE CONTRACTOR MUST COMPLY WITH KC HIGHWAYS TESTING LABORATORY REGARDING THE REQUIRED TESTING STANDARDS, TYPICALLY INCLUDING FOR FILL, ASPHALT, HOT APPLIED BOND COAT, STRUCTURAL CONCRETE AND ROAD MARKINGS.



SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, ALL CLIENTS/CONSULTANTS AND CONTRACTORS SHOULD REFER TO THE FOLLOWING RISKS AND INFORMATION PRIOR AND DURING CONSTRUCTION OPERATIONS:

NONE.

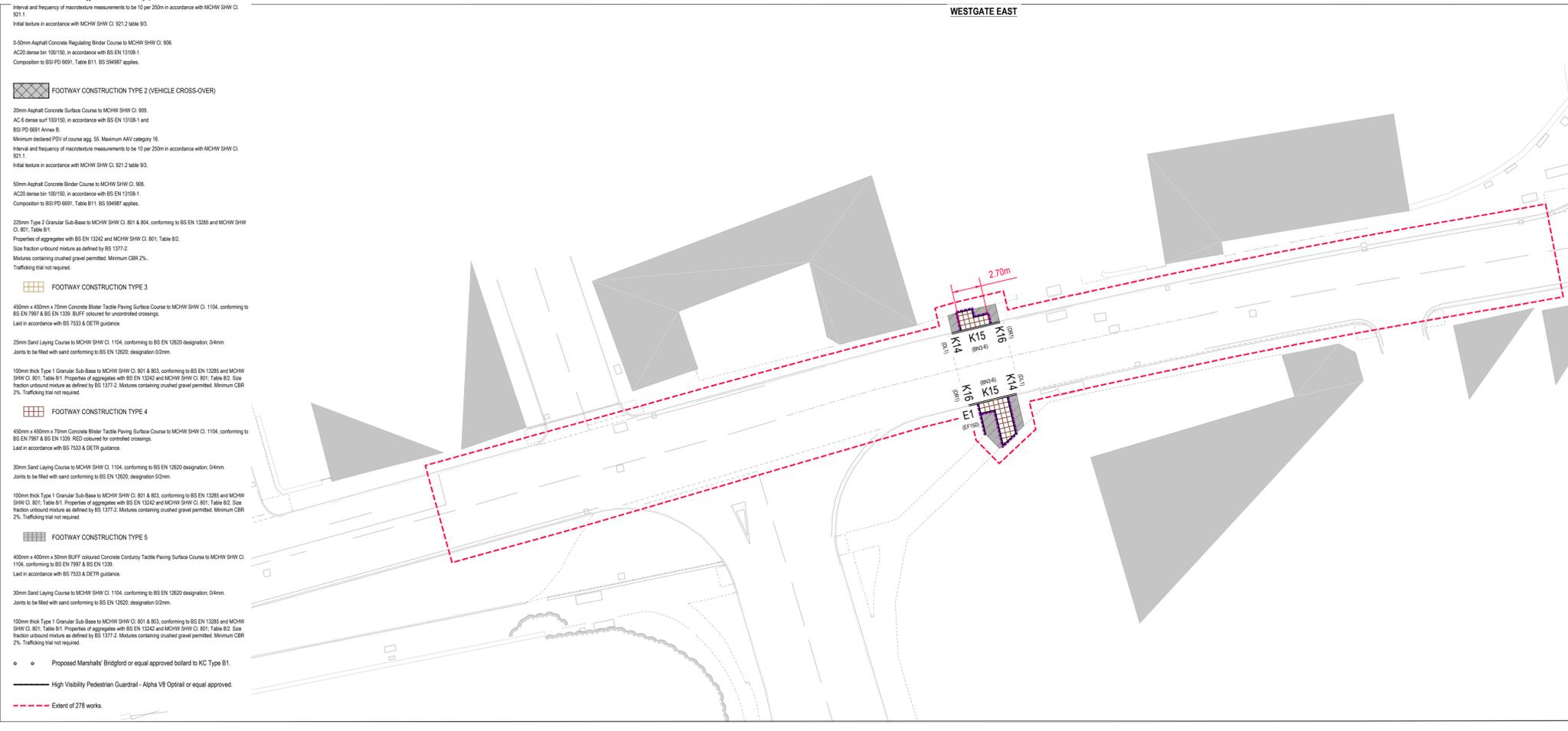
HAZARD WARNING INDICATIVE LOCATION MARKER SYMBOL

THE CONTRACTOR MUST REFER TO THE SUPPLIED UNDERGROUND MAPPING SURVEYS/CONSTRAINTS PLANS/STATUTORY UNDERTAKERS' APPARATUS RECORDS AND GEOTECHNICAL INFORMATION PRIOR TO ANY CONSTRUCTION WORKS

FOR INFORMATION RELATING TO DEMOLITION, USE, CLEANING AND MAINTENANCE, SEE THE HEALTH AND SAFETY FILE

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGNERS RISK ASSESSMENT FOR FULL DETAILS

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT



- Proposed kerb line.
- K1** 125mm x 255mm half battered precast concrete kerb with a 100mm upstand.
- K15 (a)** 125mm x 150mm bull-nosed precast concrete kerb with a 0-6mm upstand.
- K4 (30)** 125mm x 150mm bull-nosed precast concrete kerb with a 30mm upstand.
- K14 / K7** Dropper (left hand) precast concrete kerb - from HB2 to BN3 (upstand varies).
- K16 / K8** Dropper (right hand) precast concrete kerb - from BN3 (upstand varies) to HB2.
- E1** 50mm x 150mm flat top edging precast concrete kerb laid flush.
- C2** 125mm x 150mm square channel precast concrete kerb laid flush.
- Topsoil - seeding with perennial ryegrass slow growth to British Seed House's mix A2 at a rate of 30g/m². See Highways Note 10.
- FOOTWAY CONSTRUCTION TYPE 1 (FOOTWAY ONLY)**
- 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
- 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
- 0-50mm Asphalt Concrete Regulating Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
- FOOTWAY CONSTRUCTION TYPE 1a (FOOTWAY RESURFACING)**
- Specification shall be as per Type 1 construction but with existing foundation to remain - surfacing levels shall be registered to repair any instances of vehicle failure.
- 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
- 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
- FOOTWAY CONSTRUCTION TYPE 2 (VEHICLE CROSS-OVER)**
- 20mm Asphalt Concrete Surface Course to MCHW SHW Cl. 909. AC 6 dense surf 150/150, in accordance with BS EN 13106-1 and BS PD 6691 Annex B. Minimum declared PSV of course agg. 55. Maximum AAV category 16. Interval and frequency of macrotexture measurements to be 10 per 250m in accordance with MCHW SHW Cl. 921.1. Initial texture in accordance with MCHW SHW Cl. 921.2 table 93.
- 50mm Asphalt Concrete Binder Course to MCHW SHW Cl. 906. AC20 dense bit 100/150, in accordance with BS EN 13106-1. Composition to BS PD 6691, Table B11. BS 584987 applies.
- FOOTWAY CONSTRUCTION TYPE 3**
- 400mm x 400mm x 70mm Concrete Blister Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. BUFF coloured for accommodated crossings. Laid in accordance with BS 7533 & DETR guidance.
- 25mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
- 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
- FOOTWAY CONSTRUCTION TYPE 4**
- 400mm x 400mm x 70mm Concrete Blister Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. BUFF coloured for accommodated crossings. Laid in accordance with BS 7533 & DETR guidance.
- 30mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
- 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
- FOOTWAY CONSTRUCTION TYPE 5**
- 400mm x 400mm x 50mm BUFF coloured Concrete Corduroy Tactile Paving Surface Course to MCHW SHW Cl. 1104, conforming to BS EN 7967 & BS EN 1339. Laid in accordance with BS 7533 & DETR guidance.
- 30mm Sand Laying Course to MCHW SHW Cl. 1104, conforming to BS EN 12620 designation: 0/4mm. Joints to be filled with sand conforming to BS EN 12620, designation: 0/2mm.
- 100mm thick Type 1 Granular Sub-Base to MCHW SHW Cl. 801 & 804, conforming to BS EN 13285 and MCHW SHW Cl. 801, Table B1. Properties of aggregates with BS EN 12424 and MCHW SHW Cl. 801, Table B2. Size fraction unbound mixture as defined by BS 1377-2. Mixtures containing crushed gravel permitted. Minimum CBR 2%. Trafficking trial not required.
- Proposed Marshalls' Bridgford or equal approved bollard to KC Type B1.
- High Visibility Pedestrian Guardrail - Alpha V8 Optiral or equal approved.
- Extent of 278 works.

REFER TO SECTION 38 DRAWINGS FOR CONNECTED ESTATE DETAILS

Rev	Date	Revision Details	Drawn	Checked
J	30.01.2025	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
H	22.01.2025	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
G	09.01.2025	MODIFIED FOLLOWING RSA2 RECOMMENDATIONS.	MK	ND
F	22.08.2024	MODIFIED FOLLOWING KC COMMENTS.	AM	MK
E	19.07.2024	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
D	13.06.2024	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
C	17.05.2024	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
B	11.03.2024	MODIFIED FOLLOWING KC COMMENTS.	MK	ND
A	10.03.2023	FOR KC DESIGN REVIEW.	MK	ND
-	29.09.2023	INITIAL ISSUE DRAFT FOR CLIENT COMMENT AND TENDER.	MK	ND

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QUEENSBERRY DESIGN
CIVIL, STRUCTURAL & GEOTECHNICAL CONSULTANTS

NORTH-EAST OFFICE
UNIT 5, THE STATION, THE WATERMARK,
METRO RIVERSIDE, GATESHEAD, NE11 5GN
0191 450 8006

NORTH WEST & YORKSHIRE OFFICE
2A ST MARTIN'S LANE, YORK, YO1 6LN
0191 450 0662

www.queensberrydesign.co.uk

Client: **STRATA HOMES**

Project: **Westgate Cleckheaton**

Title: **Section 278 Kerbs, Footways, Cycleways and Paved Areas**

Drawn: **MK** Checked: **ND** Date: **SEPTEMBER 2023**

Drawing Number: **QD1776-1100-11**

Drawing Status: **PRELIMINARY** Scale: **1:250 (@ A1)** Rev: **J**