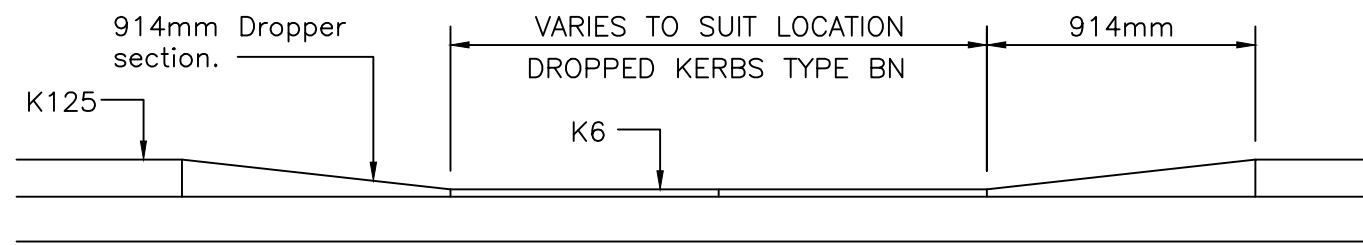
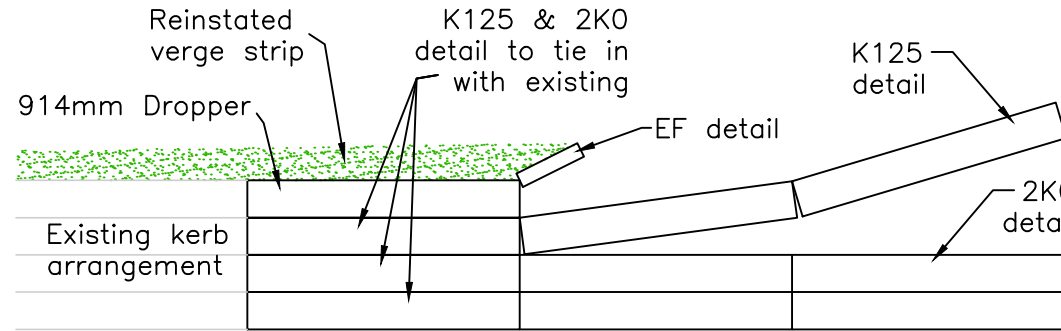


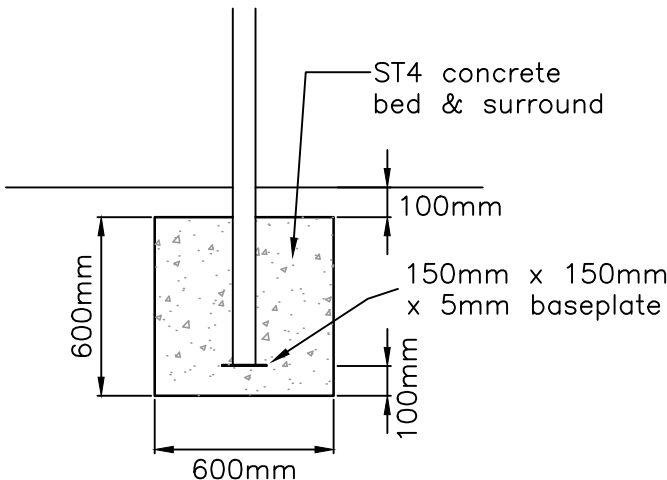
NEW VERGE CONSTRUCTION & EXISTING VERGE REINSTATEMENT
SCALE 1:25



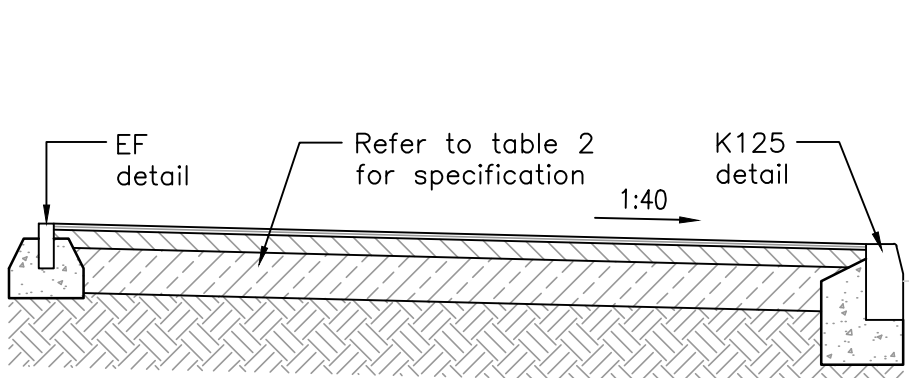
ELEVATION OF DROPPED PEDESTRIAN CROSSING KERB
SCALE 1:25



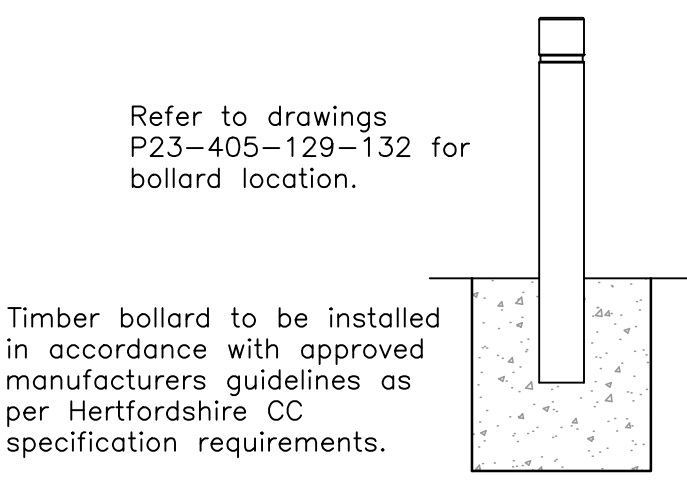
PLAN VIEW – TRANSITION KERB TIE-IN AT THE EXTENTS OF PROPOSED ACCESS
SCALE 1:25



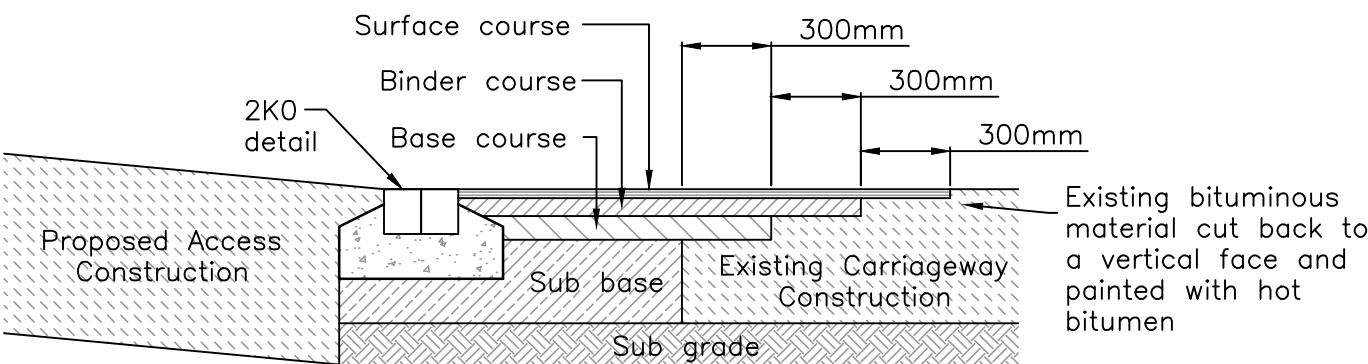
SIGN POST DETAIL
SCALE 1:25



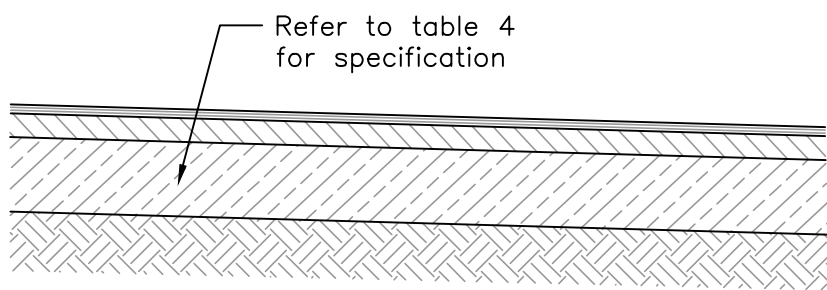
NEW ASPHALT FOOTWAY CONSTRUCTION
SCALE 1:25



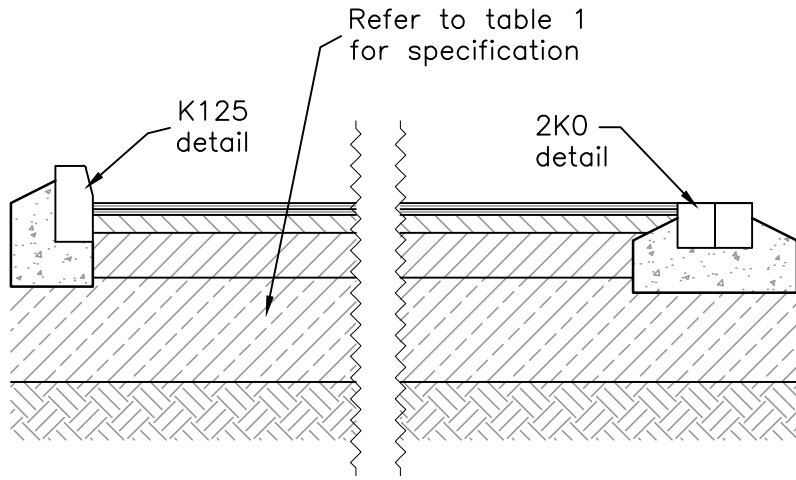
TIMBER VEHICLE RESTRAINT BOLLARD DETAIL
SCALE 1:25



STAGGERED JOINT BETWEEN NEW AND EXISTING CARRIAGEWAY TO BE RESURFACED
SCALE 1:25

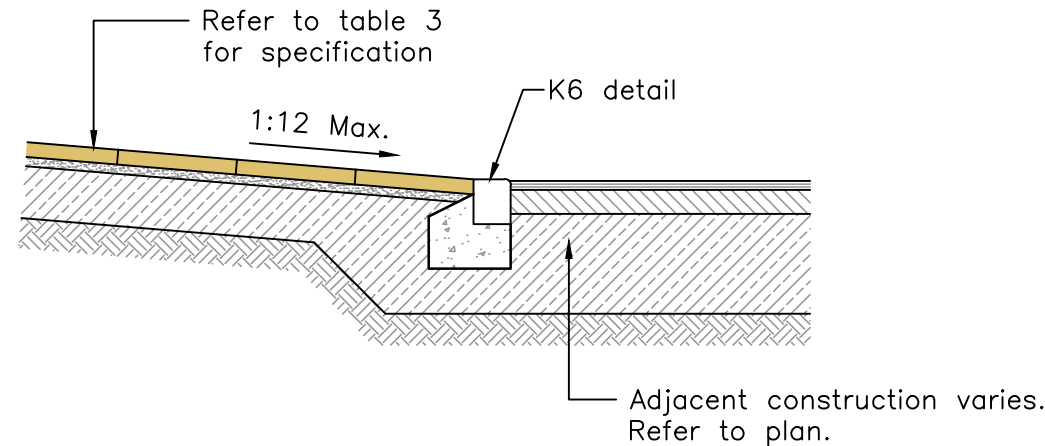


NEW ASPHALT VEHICLE CROSSOVER CONSTRUCTION
SCALE 1:25



NEW ASPHALT ACCESS CONSTRUCTION
SCALE 1:25

| Hertfordshire CC Minimum Sub-grade and Capping Thicknesses by CBR value | | |
|---|---------------------------|----------------------------|
| CBR | Minimum Capping Thickness | Minimum Sub-Base Thickness |
| Less than <2.5% | 600mm | 150mm |
| 2.5 – 5.0% | – | 350mm |
| | 350mm | 150mm |
| 5.0 – 15.0% | – | 225mm |
| 15.0 – 30.0% | – | 150mm |
| Greater than >30.0% | – | – |



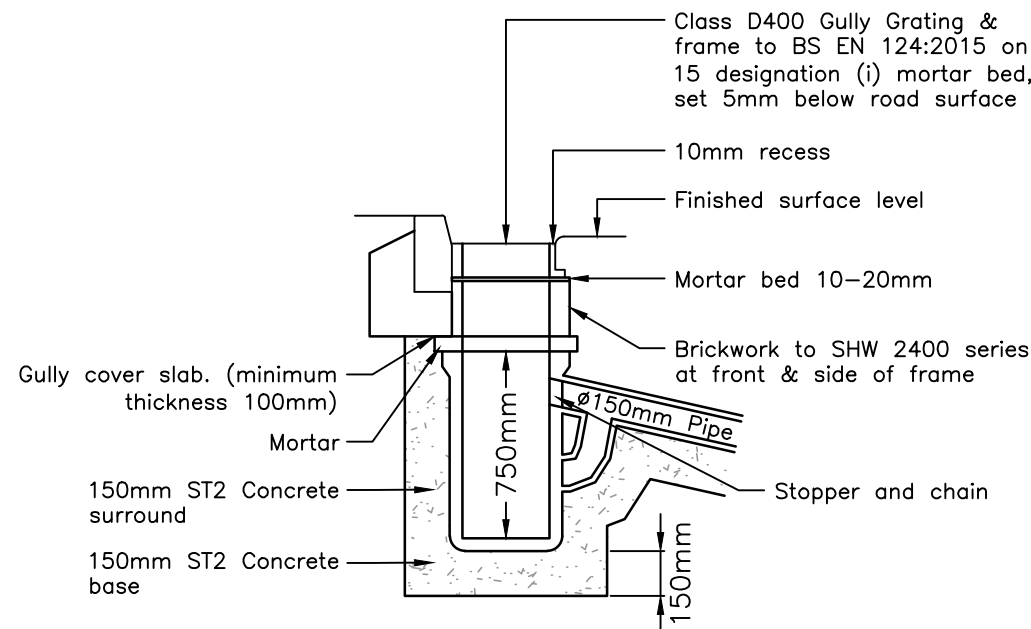
TYPICAL SECTION THROUGH PEDESTRIAN CROSSING TACTILE PAVING
SCALE 1:25

| Table 1 | Linetype/Hatch | Material Specification (New Asphalt Access) |
|----------------|----------------|--|
| Surface Course | | 40mm HRA 55/10F surf PMB des WRT2 with 14–20mm pre-coated chippings to BS EN 13108-4:2016 – PSV 60 (PSV 68 for HFS) |
| Binder Course | | 60mm of AC20 HDM bin 40/60 WRT1 to BS EN 13108-1:2016 |
| Base Course | | 150mm of AC32 HDM base 40/60 to BS EN 13108-1:2016 |
| Sub-base | | 350mm granular Sub-Base material Type 1 to clause 803 table 8/2 MCHW1 series 800. * Recycled Sub-base material may be permitted subject to additional testing prior to construction |
| Sub-Grade | | Existing acceptable material. Any soft spots or weak spots are to be excavated and replaced with sub base (as defined above). |

| Table 2 | Linetype/Hatch | Material Specification (Asphalt Footway) |
|----------------|----------------|--|
| Surface Course | | 20mm of AC6 dense surf 100/150 to BS EN 13108-1:2016 |
| Binder Course | | 60mm of AC20 dense bin 100/150 to BS EN 13108-1:2016 |
| Sub-base | | 150mm granular Sub-Base material Type 1 to clause 803 table 8/2 MCHW1 series 800. * Recycled Sub-base material may be permitted subject to additional testing prior to construction |
| Sub-Grade | | Existing acceptable material. Any soft spots or weak spots are to be excavated and replaced with sub base (as defined above). |

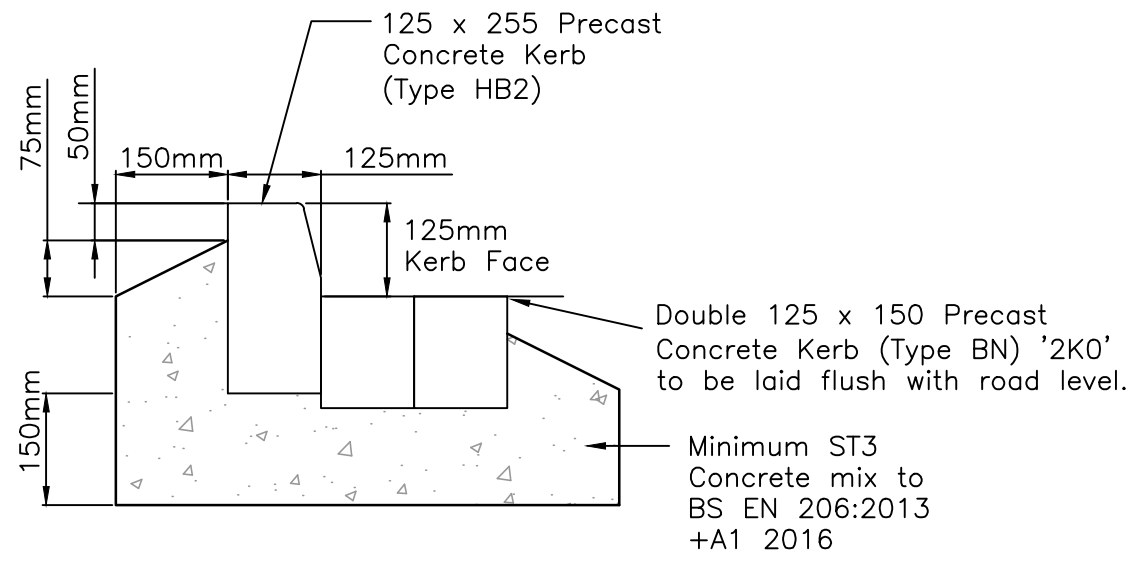
| Table 3 | Linetype/Hatch | Material Specification (Tactile Paving) |
|----------------|----------------|--|
| Surface Course | | 50mm Tactile paving 'Blister type' Buff colour laid on 25mm to 40mm thick bed of cement mortar to BS EN 7533-3 category ii of annex d. |
| Sub-base | | 150mm granular Sub-Base material Type 1 to clause 803 table 8/2 MCHW1 series 800. * Recycled Sub-base material may be permitted subject to additional testing prior to construction |
| Sub-Grade | | Existing acceptable material. Any soft spots or weak spots are to be excavated and replaced with sub base (as defined above). |

| Table 4 | Linetype/Hatch | Material Specification (Asphalt Vehicle Crossover) |
|----------------|----------------|--|
| Surface Course | | 30mm of AC6 dense surf 100/150 to BS EN 13108-1:2016 |
| Binder Course | | 80mm of AC20 dense bin 100/150 to BS EN 13108-1:2016 |
| Sub-base | | 250mm granular Sub-Base material Type 1 to clause 803 table 8/2 MCHW1 series 800. * Recycled Sub-base material may be permitted subject to additional testing prior to construction |
| Sub-Grade | | Existing acceptable material. Any soft spots or weak spots are to be excavated and replaced with sub base (as defined above). |

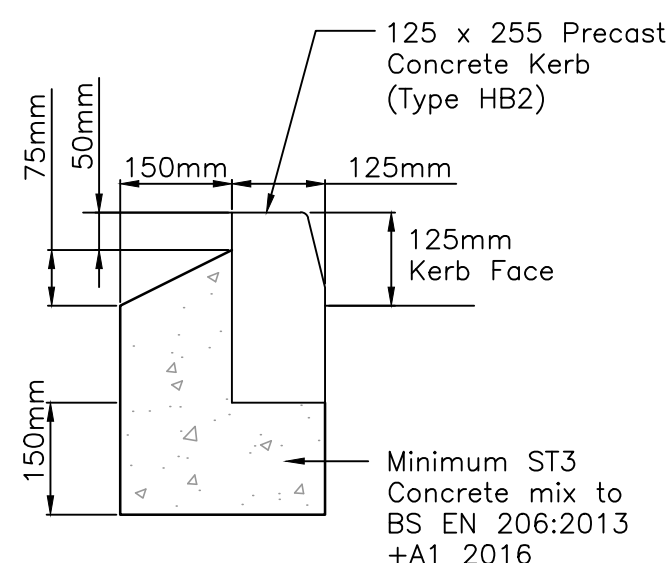


PRECAST TRAPPED GULLY
SCALE 1:25

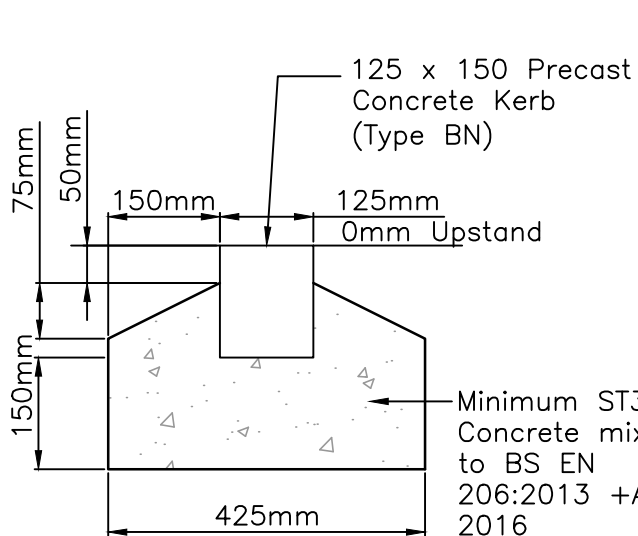
(Kerbs to be in accordance with Hertfordshire CC requirements and standards)



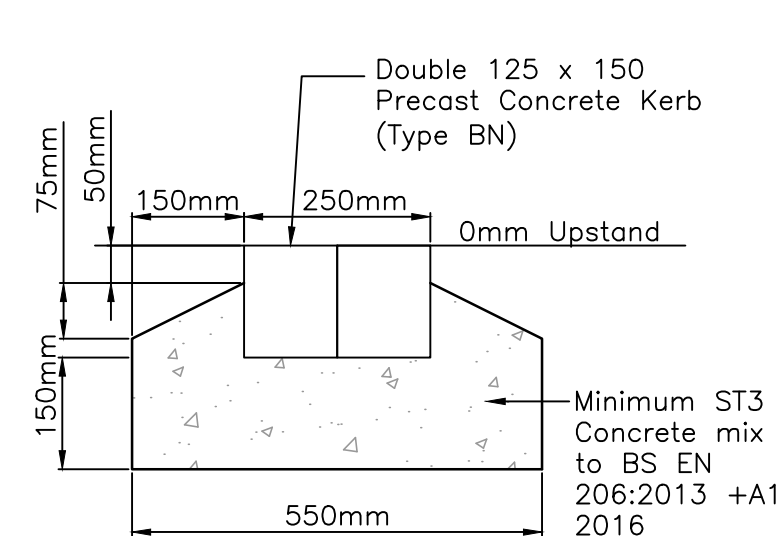
K125 & 2K0 – Standard Precast Concrete Kerb (Type HB2 & CS1) Detail for tie in at access extents
Scale 1:10



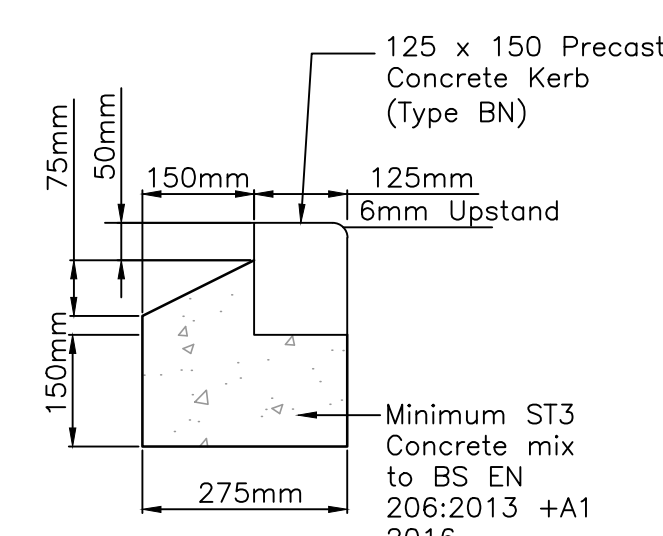
K125 – Standard Precast Concrete Kerb (Type HB2) Detail
Scale 1:10



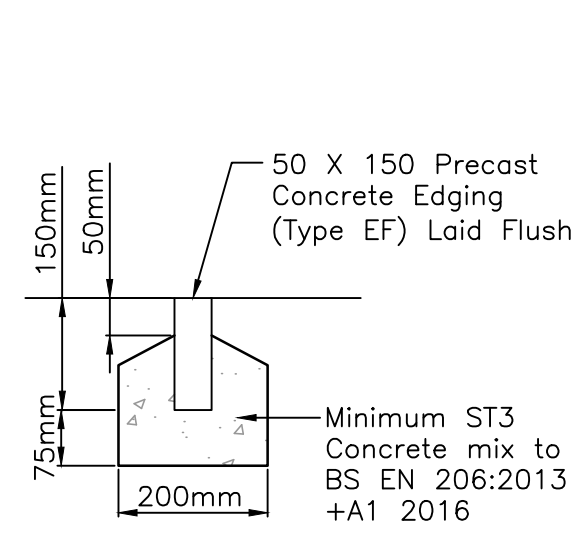
K0 – Standard Precast Concrete Kerb (Type CS1) Detail
Scale 1:10



2K0 – Double Precast Concrete Kerb (Type CS1) Detail
Scale 1:10



K6 – Standard Precast Concrete Kerb (Type BN) Detail
Scale 1:10



EF – Precast Concrete Edging (Type EF) Detail
Scale 1:10

ROAD CONSTRUCTION NOTES:

- This drawing is to be read in conjunction with all relevant drawings, documents & specifications.
- Dimensions not to be scaled.
- Unless noted otherwise, clauses refer to the Specification for Highway Works: Volume 1 of the Manual of Contract Documents for Highway Works.
- Carriageway construction is shown at 4% CBR in accordance with the results found in the Geo-Environmental Assessment (Ref:UK22.5766) by EPS, dated October 2022. Contractor shall verify CBR results at minimum 30m intervals and shall record results together with photographs for Highways Inspector review.
- Formation level of new carriageway sub-base shall as a minimum be excavated to match formation level of existing carriageway sub-base.
- Bituminous material to be in accordance with BS EN 13108:2016.
- Where laying of the sub-base does not immediately follow preparation of the formation, the formation shall be prepared again by removing any water, dust, loose or deteriorated material, regrading with approved granular fill material and compact via rolling.
- When soils are considered to be frost susceptible, overall construction shall be a minimum of 450mm. Where the standard detail is less, the sub-base thickness shall be increased as necessary.

EARTHWORKS NOTES:

- Contractor should refer to Roads in Hertfordshire: Highway Design Guide, Section 4 –Design Standards and Advice, Chapter 8 – Earthworks.
- All organic material shall be stripped and removed from within the boundaries of the new highway.
- Excavation shall be completed to 300mm above formation level. The final 300mm of excavation shall be carried out as part of the road works construction.
- CBR testing is to be undertaken at formation level prior to construction to verify depth of sub-base in accordance with Table 1. Thereafter, the CBR tests should be approved by the Hertfordshire CC Highways Inspector prior to full excavation to formation level.

DRAINAGE CONSTRUCTION NOTES:

- Surface water drainage to be installed in accordance with the requirements of Hertfordshire CC and to the approval of the Highways Inspector.

GULLY NOTES

- Gully grating and frame to BS EN 124, with Class D400 cover & minimum frame depth 100mm.
- Grating and frame set 10mm below carriageway surface and flush with kerb face, any gap to be filled with class 1 mortar.
- Minimum depth from the top of the grating to the top of the gullyoutlet is to be 750mm when the connecting pipe is under a carriageway, or hard shoulder & 60mm elsewhere.
- Where the gully connection passes under the carriageway the invert level of the pipe at the outlet shall be set at least 175mm below formation level. The invert level shall be at least 315 below the top of the sub-base.
- See Notes above. Where the total road construction depth exceeds 450 and the gully connection pipe passes under the carriageway more than three courses of brickwork will be permitted to a maximum of five courses.

| | | | |
|----|--------------------------|-----|----------|
| P2 | UPDATED TO SUIT COMMENTS | LLB | 06.09.24 |
| P1 | PRELIMINARY ISSUE | LLB | 17.06.24 |
| MK | REVISION | BY | DATE |

DRAWING STATUS

PRELIMINARY

DRAWING TITLE

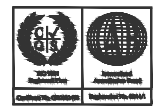
S278 TEMPORARY ACCESS CONSTRUCTION DETAILS

PROJECT

HARPENDEN ROAD
ST ALBANS
HERTFORDSHIRE

simpson | tws

8 Friday Street
Henley-On-Thames
Oxfordshire, RG9 1AH
T: 01491 576 221
E: mail@simpsoneng.com
W: www.simpsoneng.com



London, Henley-on-Thames and Gloucester

| | | | |
|--------------|------------|--------------------|-------------------|
| Drawn LLB | Chkd PB | Scales AS SHOWN | Date JUNE 2024 |
|--------------|------------|--------------------|-------------------|

Purpose of Issue

FOR APPROVAL

| | |
|-------------------------------|----------------|
| Drawing Number P23-405-133 | Revision P2 |
|-------------------------------|----------------|