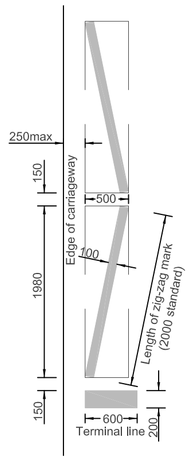
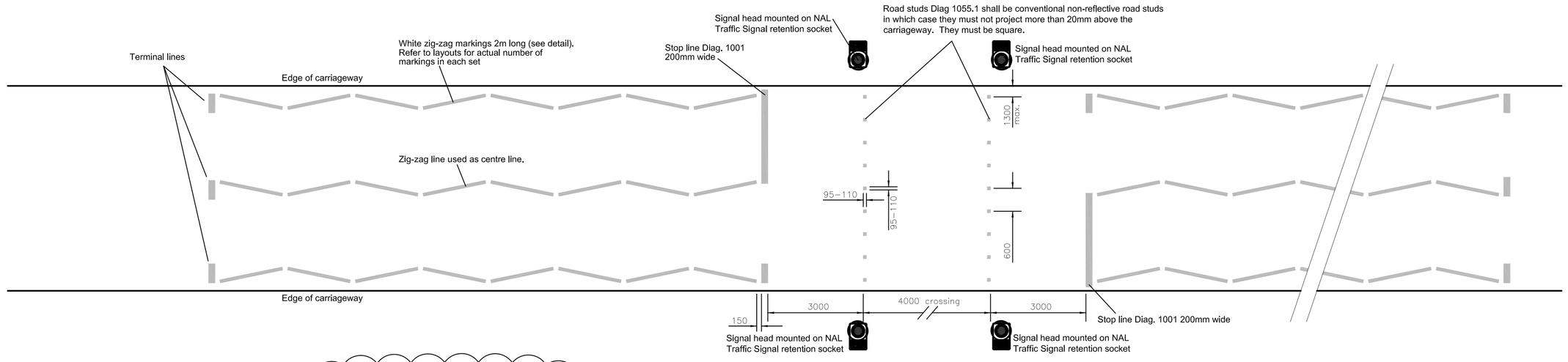


Road markings shall be WHITE thermoplastic and shall be screed or spray applied. A surface application of Ballotini shall be applied.

ZIG-ZAG ROAD MARKING DETAIL

Scale 1:50



TYPICAL ROAD MARKINGS FOR 'TOUCAN' CROSSING

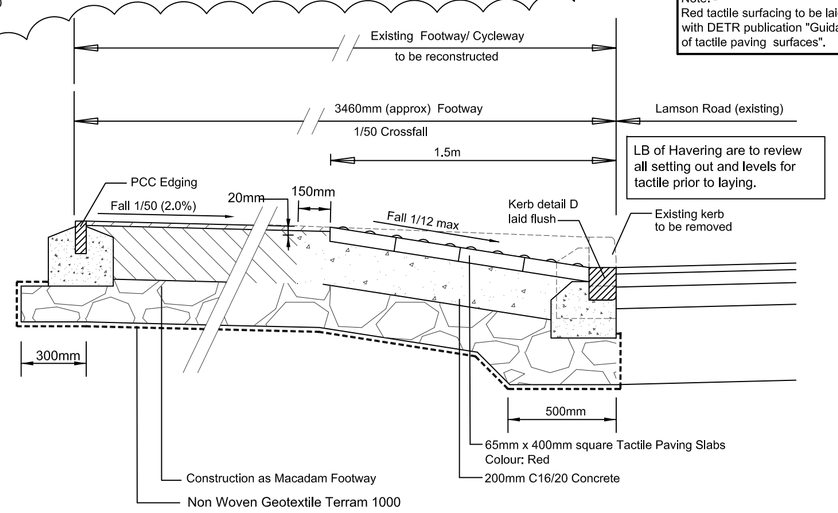
NTS

DIAG No.	Size mm	Description
1001	Continuous, 200mm wide	Stop line
1001.3	600mm long, 200mm wide	Terminal line
1001.3	2000mm long 100 wide	Zig-zag

Road markings shall be WHITE thermoplastic and shall be screed or spray applied. A surface application of Ballotini shall be applied.

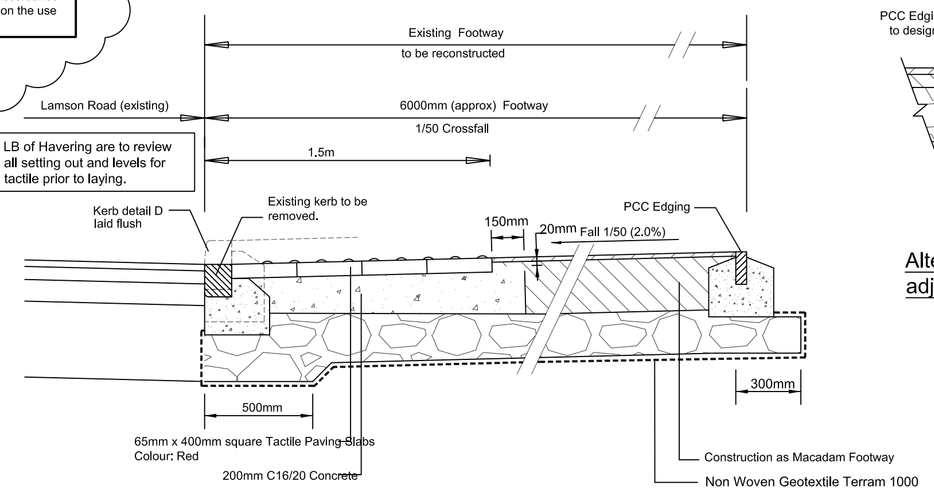
TOUCAN CROSSING ROAD MARKINGS SCHEDULE

Note: - Red tactile surfacing to be laid in accordance with DETR publication "Guidance on the use of tactile paving surfaces".



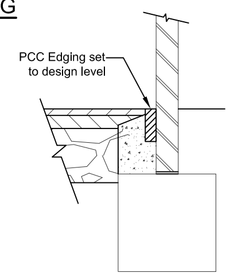
SECTION THROUGH TACTILE PAVED FOOTWAY TOUCAN CROSSING (Section A-A)

Scale 1:20



SECTION THROUGH TACTILE PAVED FOOTWAY TOUCAN CROSSING (Section B-B)

Scale 1:20

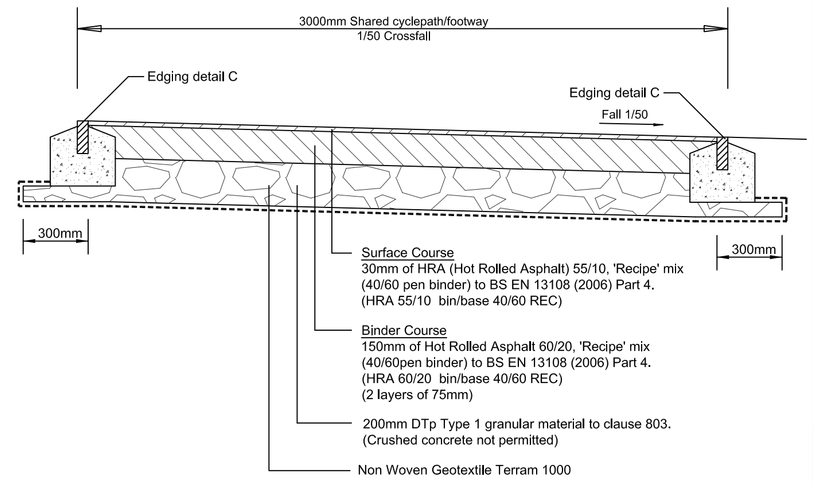


Alternative Edging Detail adjacent to Brick Screen Walls

NOTES.
FILL MATERIAL BENEATH ADOPTABLE HIGHWAYS WHERE GROUND LEVELS LOW
Adoptable fill material to be wholly in accordance with the Department of transport specification for highway works (conforming to clause 601/1) to the satisfaction of the local authority Highways Engineer and samples to be made available for inspection. Subject to the approval of the LA Engineer, suitable fill material May be assumed to be classes 1A, 1B, 1C, 2B, 6F1 & 6F2. (Max. 125mm min. 63 micron particle size). Certificates to be provided as proof of conformity to the specification.

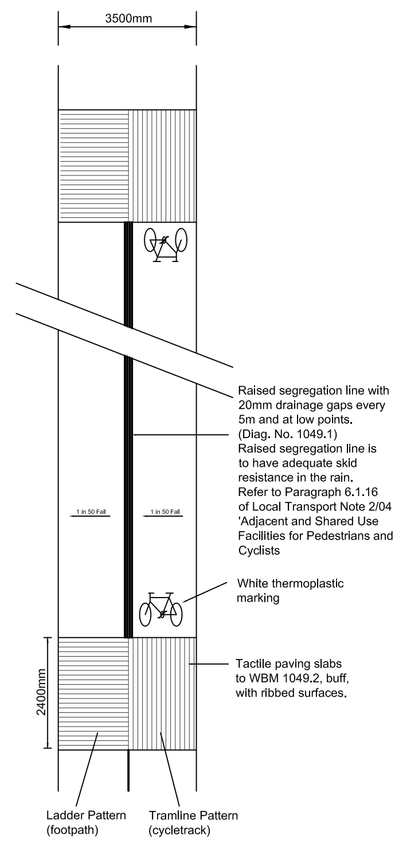
CARRIAGEWAY CONSTRUCTION			
	OPTION 1		OPTION 2
CBR Value	CAPPING LAYER THICKNESS	SUB BASE THICKNESS	SUB BASE THICKNESS
<2%	Further Discussion Necessary		
2%	600mm	150mm*	–
3%	350mm	150mm	300mm
4%	300mm	150mm	270mm
5%	250mm	150mm	230mm
8%	210mm	150mm	190mm
10%	180mm	150mm	180mm
15%+	–	150mm	150mm

* If the sub-grade is frost susceptible then overall thickness of road construction shall be 450mm



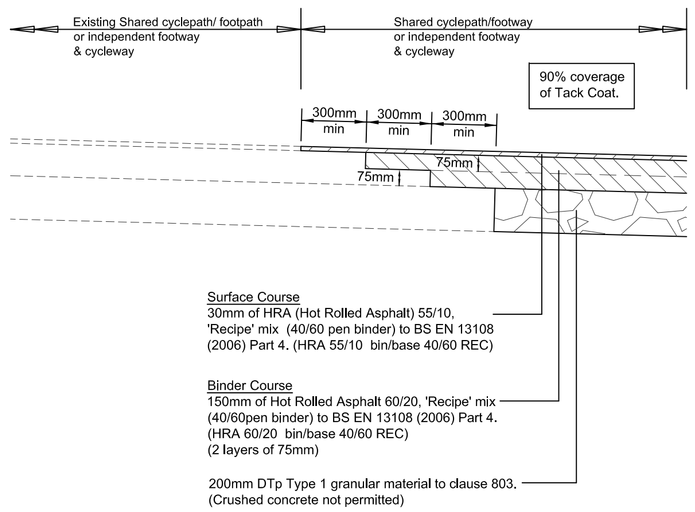
SHARED CYCLEPATH/FOOTWAY SECTION

Scale 1:20



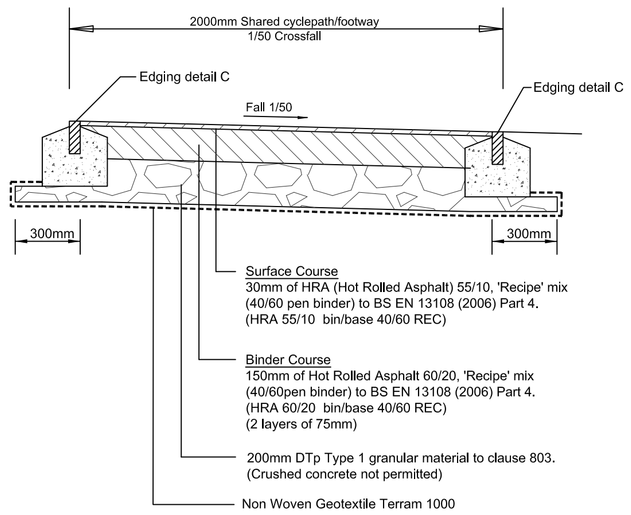
ROAD MARKINGS & TACTILE PAVING TO SEGREGATED FOOTWAY/ CYCLEWAY

NTS



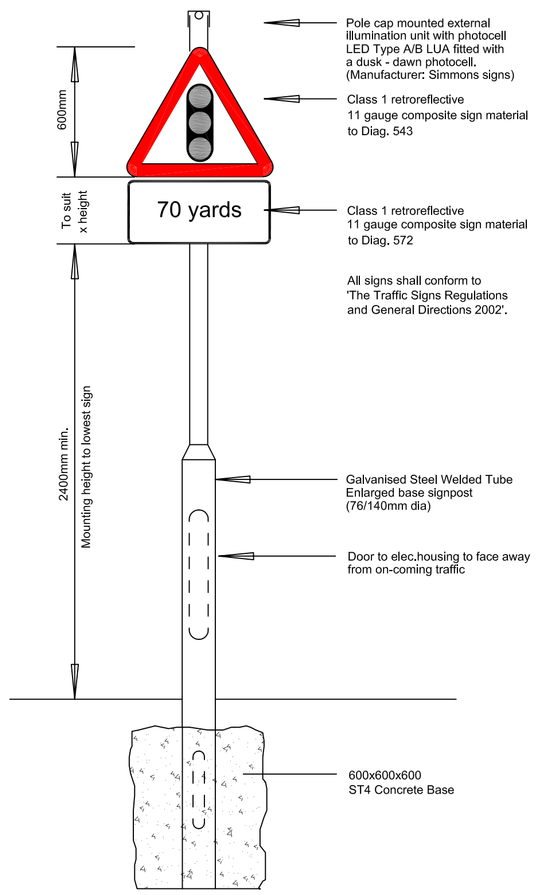
JOINT TO EXISTING UNSEGREGATED CYCLEPATH/FOOTWAY OR INDEPENDENT FOOTWAY & CYCLEWAY SECTION

Scale 1:20



UNSEGREGATED CYCLEPATH/FOOTWAY SECTION

Scale 1:20



TRAFFIC PRIORITY SIGN DETAILS RS1 & RS2

Not to scale

DIAG 7014
class 1 retroreflective
11 gauge composite sign material mounted on a new post or existing lamp column.

TEMPORARY SIGNS RS3 & RS4

Temporary signs are to be removed 3 months after completion of works.

Sign ref.	DTp ref.	Description	Face material	Size (mm)	Mounting Height (mm)	Minimum Carriageway Clearance (mm)	Illumination Type	Number of Posts	Post Diameter (mm)	Enlarged Base Mounting	Post Length (mm)	Foundation Size (mm)	Notes
RS1, RS2	543 572	Traffic lights 70 yards	Class 1 retroreflective	600 50'x' height	2400	450	ILLUMINATED	1	76/140	YES	3900	-	Sign RS1 to be mounted on post. Sign RS2 to be mounted on Post
RS3, RS4	7014	New road layout ahead	Class 1 retroreflective	600 50'x' height	2400	450	NOT LIT	1	76	NO	3900	600x600x600	Temporary signs to be removed 3 months after completion of works

*May be placed on nearby lighting column if available

Note. 1. All signs to be in accordance with the Traffic Signs Regulations and General Directions 2002.
2. All sign posts are to be galvanised.
3. All signs to have 450mm clearance from the edge of carriageway.
The exact positions to be agreed on site with L.A. Engineer.

SIGNS SCHEDULE

No Dimensions are to be scaled from this drawing.

NOTES
1. All dimensions in millimetres unless stated otherwise.
2. All works carried out in the Public Highway are to be carried out in accordance with the London Borough of Havering specification to the satisfaction of the Highways Engineer.
3. All signs and road markings shall conform to the 'Traffic Signs Regulations and General Directions 2016' and the 'Traffic Signs Manual'.
4. The contractor is responsible for obtaining all necessary licences for works in the Public Highway.
5. All road construction based on 5% CBR Value subject to insitu testing & CBR Value of imported granular fill material. If the CBR value for the sub grade is found to be less than 2%, the insitu measured value must be reported to PersimmonHomes Technical Dept for further advice.
6. All ironwork within the carriageway to have 150mm deep frame. (manhole covers, gully gratings etc).
7. Signs to be mounted at a minimum height of 2400mm if there is a possibility of conflict with cyclists.
8. All new road gullies are to connect to existing Highway drains.
9. For details of all private on-site works, refer to the Overall External Works Plan Drg. No. 16-011/330 and associated Construction Details provided on Drg. Nos. 16-011/316-318.

REVISIONS
T1 Tender issue. 21/09/16
T2 Toucan road marking details revised now showing addition of signal head mounted on NAL traffic signal retention sockets, section through tactile paved footway crossing revised, traffic sign to be made out of composite sign materials revised throughout, shared footway/ cyclepath sections crossfall revised to 1:50 throughout, and note revised, as per LB of Havering comments. Drawing title revised. 26/02/18
T3 Traffic priority sign details height revised to 2400mm; shared cyclepath/footpath section note revised, 'Non woven geotextile terran 1000' geotextile added to all of the adoptable road and footway details, as per LB of Havering comments. WDAL Logo revised. 08/06/18
T4 Section through tactile paved footway crossing, section A-A and B-B details revised to suit relocated touccan crossing location. Kerb detail 'HB305' removed. 08/02/19
T5 Section through tactile paved footway crossing, section A-A and B-B details revised, footway surface course details revised throughout to suit LB of Havering comments. 15/08/19
T6 Tactile details, kerbs and edging details revised to suit LB of Havering comments. 20/09/19
T7 Section A-A detail revised as per LB of Havering comments. 07/10/19

WITHERS DESIGN ASSOCIATES
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PROJECT
DOVERS CORNER RAINHAM

CLIENT
PERSIMMON HOMES (ESSEX) LTD

DRAWING TITLE
ADOPTABLE ROAD CONSTRUCTION DETAILS (S278) (Sheet 2 of 3)

SCALE	DATE	INIT	CHKD
As Shown @ A1	09/16	nas	maw

STATUS
Tender

DRG NO **16-011/329** REVISION **T7**