



No Dimensions are to be scaled from this drawing.

**NOTES**

- 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.
- The contractor is responsible for obtaining all necessary licences for works in the Public Highway.
- If the CBR value for the sub grade is found to be less than 3%, the in situ measured value must be reported to Persimmon Homes Technical Dept for further advice.
- For details of all 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.
- All necessary pedestrian and traffic management shall be employed and agreed with the highway authority prior to works and be in accordance with Chapter 8 of the Traffic Signs Manual.
- Footway levels to follow the existing road channel profile.
- Continuity of access to occupied areas to be maintained to the satisfaction of the London Borough of Havering Engineer during any works within the Public Highway.
- The Developer/Contractor is to provide suitable and effective means of wheel washing facilities to prevent mud from being conveyed on to the Public Highway and to provide the means to clean the highway to the satisfaction of the London Borough of Havering Engineer.
- Any soft spots within the proposed Highway shall be dug out and backfilled with Type 1 granular sub base material in 150mm (max.) compacted layers.
- Any damage caused to the existing highways during the course of construction works to be replaced as directed by and to the satisfaction of the London Borough of Havering Engineer.
- No concrete to be poured or laid at temperatures below 2°C on a falling maximum thermometer or before temperatures reaches 2°C on a rising maximum thermometer.
- No works shall commence within the existing public highway until the agreement is signed.
- All fill material up to foundation level of the proposed highways to be approved and compacted in layers as directed and to the satisfaction of the Highways Inspector.
- Any existing live drains, sewers, ducts, cables etc. that will pass under the proposed highway shall be surveyed, probed, traced, rodded, jetted, CCTV etc. to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/or utility company involved.
- Any existing live manholes, chambers, boxes etc. that will be located within the proposed highway shall be surveyed to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/or Utility Company involved.
- All inwork within the carriageway to have 150mm deep frame. (manhole covers, gully gratings etc.)

**Legend**

Proposed Tactile Paving

Proposed Footway

Proposed Footway (Cyclway)

Road Traffic Signs (refer to sign schedule on 16-011/329)

Existing Street Lighting Column

Proposed Street Lighting Column

Buff Anti-slip Surface Dressing

Proposed Emergency Link

Proposed Footway (and Footway/Cyclway) Construction

Proposed Verge Construction

Highway Boundary

Existing Aquadrain Kerb along Bridge Deck

Existing Asphalt construction over the Bridge Deck

Existing Pedestrian Deterrent Paving

Extent of Existing Bridge Deck (NO EXCAVATION WITHIN THIS AREA)

Existing Pedestrian Deterrent Paving to be broken out to allow for new 3m wide footway construction

**REVISIONS**

T4	Shared footpath revised to 3m, street lighting column relocated, and existing path dimension added as per LB of Havering comments. WDAL logo revised.	08/08/18
T5	Existing aquadrain kerb, asphalt construction, pedestrian deterrent and bridge deck details added as well as associated note revised. Additional legend added, as per LB of Havering comments.	24/10/18
T6	Toucan Crossing relocated to the west to avoid shallow bridge deck as per LB of Havering comments.	08/02/19
T7	Proposed tactile paving construction note to the south added/ revised. Extent of Existing Bridge deck legend stating, "No excavation within this area" added, as per LB of Havering comments.	01/03/19
T8	S278 area level revised to tie in with private independent 3m footpath to the east of the plots 129-132.	07/06/19
T9	Existing Directional signage revised.	21/06/19
T10	Corridor paving's relocated, additional footpath and levels added, 15/08/19 existing ramp sign removed, footway extended to 3m to the east, proposed pedestrian guardrail and legend added as per HCC comments.	20/09/19
T11	Legend revised now showing reference number to all hatched area, and break out of deterrent paving hatching legend added to suit LB of Havering comments.	
T12	Stick on tactiles to the bridge deck note added. Guardrailing details and legend removed, and replaced with proposed grass verge, as per LB of Havering comments.	07/10/19

**WITHERS**  
DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

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**PROJECT**  
DOVERS CORNER  
RAINHAM

**CLIENT**  
PERSIMMON HOMES  
(ESSEX) LTD

**DRAWING TITLE**  
SECTION 278 GENERAL  
ARRANGEMENT - TOUCAN CROSSING

SCALE	DATE	INIT	CHKD
1:200 @ A1	08/16	nas	maw
STATUS			
TENDER			
DRG NO	REVISION		
16-011/326	T12		