



No Dimensions are to be scaled from this drawing.

- NOTES
1. All details are based on the combined Topographical Surveys drawing nos. 15802se-03 dated May 2015 by Survey Solutions; 23017-10-Topo-Survey dated May 2004 by Betteridge Turners & Partners; and GE00055-102-S1 to S4 rev B dated January 2008 by Scott White & Partners supplied by Persimmon Homes Essex. Levels are OS datum based and taken from survey control point ST01 established by GSY using OSGM02(GB).
 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. The contractor is responsible for obtaining all necessary licences for works in the Public Highway.
 4. If the CIR 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.
 5. For details of all on site works refer to the Overall External Works Plan Dwg. No. 16-011330 and associated Construction Details provided on Dwg. Nos. 16-011316-318.
 6. All necessary pedestrian and traffic management to be employed and agreed with the highway authority prior to works and be in accordance with Chapter 8 of the Traffic Signs Manual.
 7. Footway levels to follow the existing road channel profile.
 8. 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.
 9. No works shall commence within the existing public highway until the agreement is signed.
 10. 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.
 11. 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.
 12. 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.
 13. No works shall commence within the existing public highway until the agreement is signed.
 14. 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.
 15. Any existing live drains, sewers, ducts, cables etc. that will pass under the proposed highway shall be surveyed, protected, marked, roped, jacked, cased 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.
 16. 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.
 17. All ironwork within the carriageway to have 150mm deep frame (manhole covers, gully gratings etc.).

Legend

Existing Survey Data	3.00
Proposed Layout	3.00
Highway Boundary	3.00
Existing Electricity Cable	3.00
Existing Lighting Cable	3.00
Existing Undertended Trace	3.00
Proposed Tactile Paving	3.00
Corridor Paving (footway)	3.00
Corridor Paving (Cycleway)	3.00
Road Traffic Signs (refer to sign schedule on dig 16-011329)	RS1
Existing Street Lighting Column	LP
Proposed Street Lighting Column	LP
Buff Anti-skid Surface Dressing	5
Proposed Emergency Link	6
Proposed Footway (and Footway/Cycleway) Construction	7
Proposed Verge Construction	8
Existing Aquadrian Kerb along Bridge Deck	9
Existing Asphalt construction over the Bridge Deck	10
Existing Pedestrian Deterrent Paving	11
Extent of Existing Bridge Deck (NO EXCAVATION WITHIN THIS AREA)	12
Existing Pedestrian Deterrent Paving to be broken out to allow for new 3m wide footway construction	13

- REVISIONS**
- | | | |
|----|---|----------|
| T1 | Tender Issue | 21/06/19 |
| T2 | Corridor paving's relocated, additional footpath and levels added, 21/06/19 existing ramp sign removed, footway extended to 3m to the east, proposed pedestrian guardrail and legend added as per HCC comments. | 20/09/19 |
| T3 | 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. | 07/10/19 |
| T4 | Guardrailing details and legend removed, and replaced with proposed grass verge, as per LB of Havering comments. | |

SUBJECT TO SECTION 278 APPROVAL BY LONDON BOROUGH OF HAVERING

WITHERS
DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
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PROJECT
**DOVERS CORNER
RAINHAM**

CLIENT

**PERSIMMON HOMES
(ESSEX) LTD**

DRAWING TITLE
**SECTION 278 - TOUCAN CROSSING
OVERLAY**

SCALE	DATE	INIT	CHKD
1:200 @ A1	08/16	nas	maw
STATUS			
TENDER			
DRG NO	REVISION		
16-011/353	T4		