 Extent of proposed carriageway widening

Proposed bus stops (see drawing 14254-H-05).

Existing ditch moved back 1m to provide a level verge adjacent to the footway, reducing the risk of pedestrian falls.

2.4 x 36.2m visibility splay.

10m radii with a taper to accommodate larger vehicle movements and to prevent cars crossing the centreline of Upnor road

Proposed priority junction leading to 5.5m wide access road.

2.4 x 47.6m visibility splay.

Proposed lighting column
Widening to 5.5m carriageway

Proposed lighting column
10m radii.

Eastbound	Westbound
85%ile 26.70 mph 42.96 kph	85%ile 27.70 mph 44.57 kph
$SSD=vt+v^2/2(d+0.1a)$	$SSD=vt+v^2/2(d+0.1a)$
where: v = speed (m/s) t = driver reaction time (s) d = deceleration (m/s ²) 1kph= 0.2778 m/s	where: v = speed (m/s) t = driver reaction time (s) d = deceleration (m/s ²) 1kph= 0.2778 m/s
v= 11.93	v= 12.38
t= 1.5	t= 1.5
d= 3.68	d= 3.68
a= 8	a= -8
vt= 17.90	vt= 18.57
v ² = 142.41	v ² = 153.27
2(d+0.1a)= 8.96	2(d+0.1a)= 5.76
SSD= 33.794 m plus 2.4 36.194 inc bonet length	SSD= 45.180 m plus 2.4 47.580 inc bonet length

DO NOT SCALE

Notes:

- Drawing is based on topographical survey and an architect plan provided by Clague Architects.
- Visibility splay lengths have been calculated based on an ATC Survey commissioned for a week long period commencing 30th January 2020.
- ATC Survey recorded speeds of 26.7mph for eastbound traffic and 27.7mph for westbound traffic. This data has been used in calculations set out in Manual for Streets to find the required length of visibility splays using a reaction time of 2s and a deceleration rate of 3.68m/s² allowing for a gradient of 8% decreasing from east to west.
- Existing vegetation along the site frontage and leading to the proposed bus stop location will need to be removed or relocated to keep visibility clear.

REV	DATE	BY	DESCRIPTION	CHK	APD
P8	24.11.20	CS	Carriageway widened	CS	CS
P7	18.11.20	CS	Carriageway widened	CS	CS
P6	25.09.20	JM	Widening Dimensions	CS	CS
P5	14.09.20	JM	Revised Visibility Calcs	CS	CS
P4	28.08.20	JM	Topographical Survey	PL	PL
P3	27.08.20	JM	Localised Widening	PL	PL
P2	05.06.20	JM	Updated archplan	CS	CS
P1	16.03.20	JM	First Issue	CS	CS

client
ESQUIRE DEVELOPMENTS LTD


project
UPNOR ROAD, UPNOR

title
PROPOSED ACCESS DESIGN

project 14254	drwg H-08	rev P8
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Drawn JM	Checked CS	Approved CS	scale @ A3 1:500	date 25.09.20
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status
FOR INFORMATION P



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CAD Reference: **A3**

