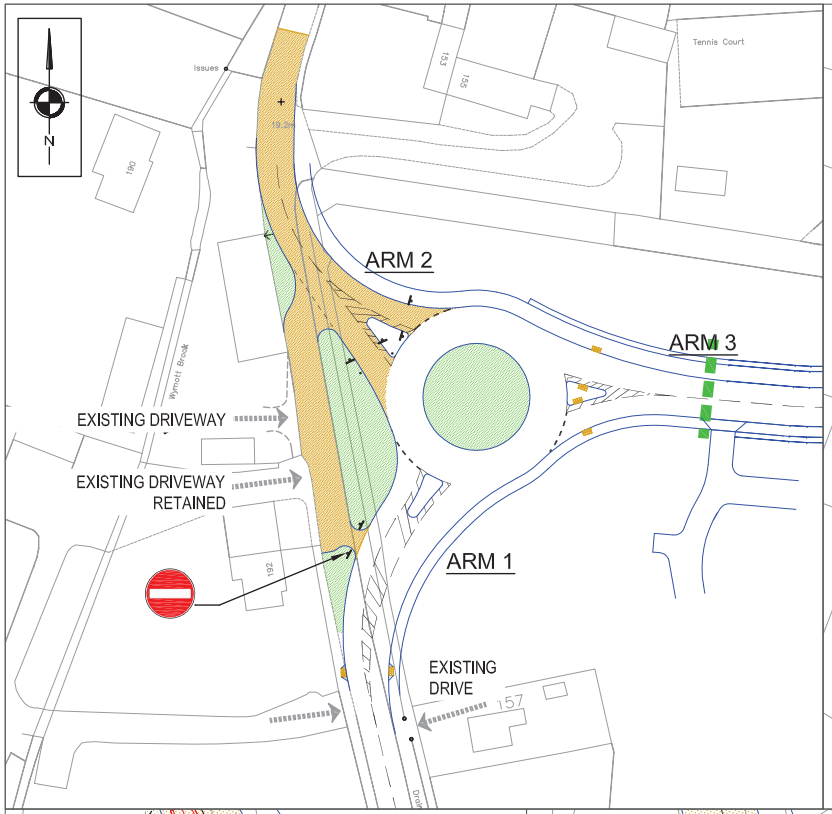
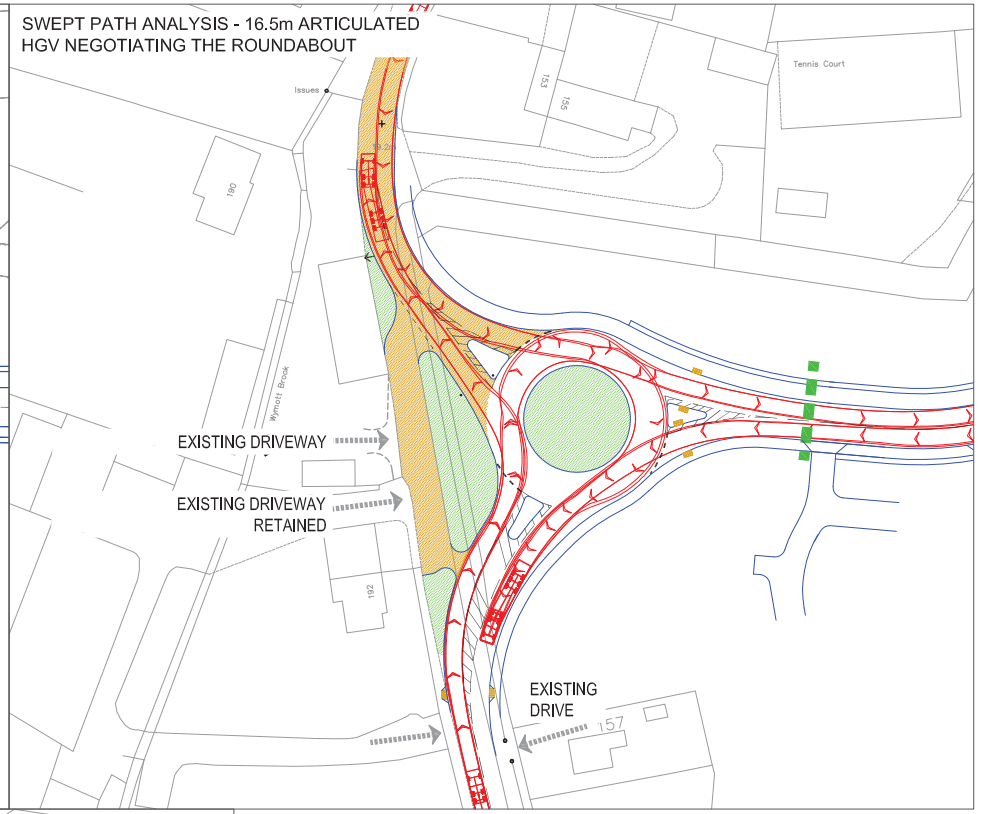


SWEPT PATH ANALYSIS - 16.5m ARTICULATED
HGV NEGOTIATING THE ROUNDABOUT



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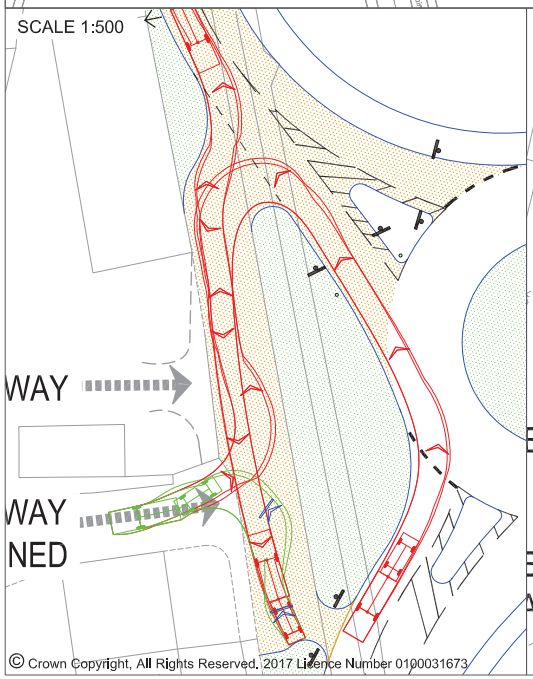

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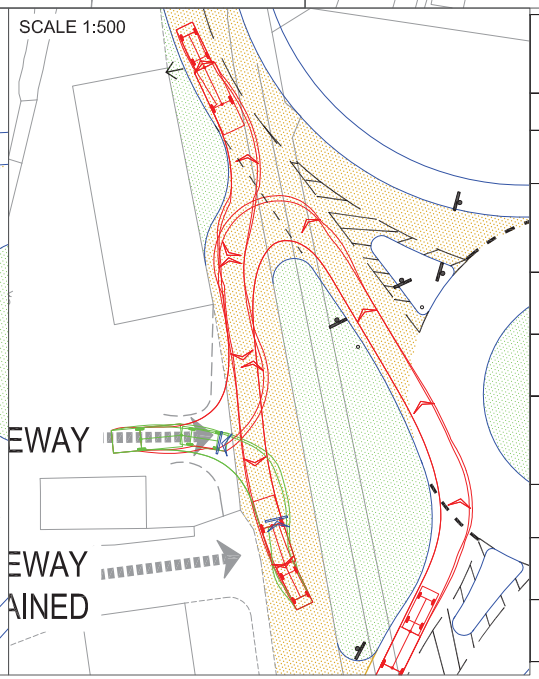

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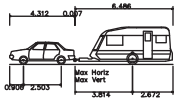
Roundabout Design Checklist – TD 16/07
Normal and Compact

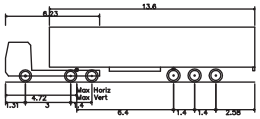
Design Feature	Design Requirements	Arm 1	Arm 2	Arm 3
Approach Half Width (v)	Typically 2m – 7.3m	3.6m	3.2m	3.65m
Entry Width (e)	Min 3m per lane Single 3m<e<10.5m (4.5m ideal) Dual 6m<e<15m (3m-3.5m ideal)	4.5m	4.5m	4.5m
Entry Radius (r)	10m – 100m (20m ideal) Normal – 20m min for HGV's)	14m	28m	30m
ICD (D)	>28m	34m	34m	34m
Entry Path Curvature (Deflection)	Normal - <100m radius Compact - <70m radius (DMRB: urban overruns OK)	96m	47m	90m
Circulatory Carriageway	1.0 – 1.2 x max entry width max 15m	7m	7m	7m
Exit Radius	Normal 20m – 100m (40m ideal) Compact – 15m – 20m	40m	60m	100m
Exit Width	Normal – 6m min Compact – single lane	6m	5m	6m

NOTES



Car & Caravan

Overall Length	10.805m
Overall Width	2.130m
Overall Body Height	2.473m
Min Body Ground Clearance	0.201m
Max Track Width	2.130m
Lock to Lock Time	4.00s
Curb to Curb Turning Radius	5.042m



Max Legal Length (UK) Articulated Vehicle (16.5m)

Overall Length	16.500m
Overall Width	2.550m
Overall Body Height	3.632m
Min Body Ground Clearance	0.396m
Max Track Width	2.500m
Lock to Lock Time	6.00s
Curb to Curb Turning Radius	6.870m

REVISIONS

REV	DESCRIPTION	DATE	BY
B	-ROUNDABOUT RELOCATED	08.06.17	BA
C	-TRAFFIC CALMING MEASURES SHOWN ALONG LONGMEANYGATE.	13.06.17	BA
D	-EASTERN ARM REALIGNED (ARM 3).	15.06.17	BA
E	-MINOR IMPROVEMENTS	28.06.17	BA
F	-MINOR IMPROVEMENTS	16.02.18	BA
G	ONE WAY SIGNAGE DETAILED FOR PRIVATE DRIVE ON WESTERN SIDE OF ACCESS. VISIBILITY SPLAYS PLOTTED ON FROM THE DRIVEWAY SERVING 157 LONGMEANYGATE	09.05.18	BA

S C P
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www.scptransport.co.uk, Email info@scptransport.co.uk

Client Name:
PROPERTY CAPITAL PLC

Project Title:
LEYLAND TEST TRACK, LEYLAND

Drawing Title:
ROUNDABOUT DESIGNERS CHECK LIST

Drawn By: BA	Date: 08.02.2017
Checked: PT	Scale: 1:1000 @ A3 UNLESS STATED
Status: PLANNING	Approved/Unapproved: -
Drawing No. SCP/15043/SK12	Rev. G