

# Appendix A – References

In the preparation of this report reference has been made to:

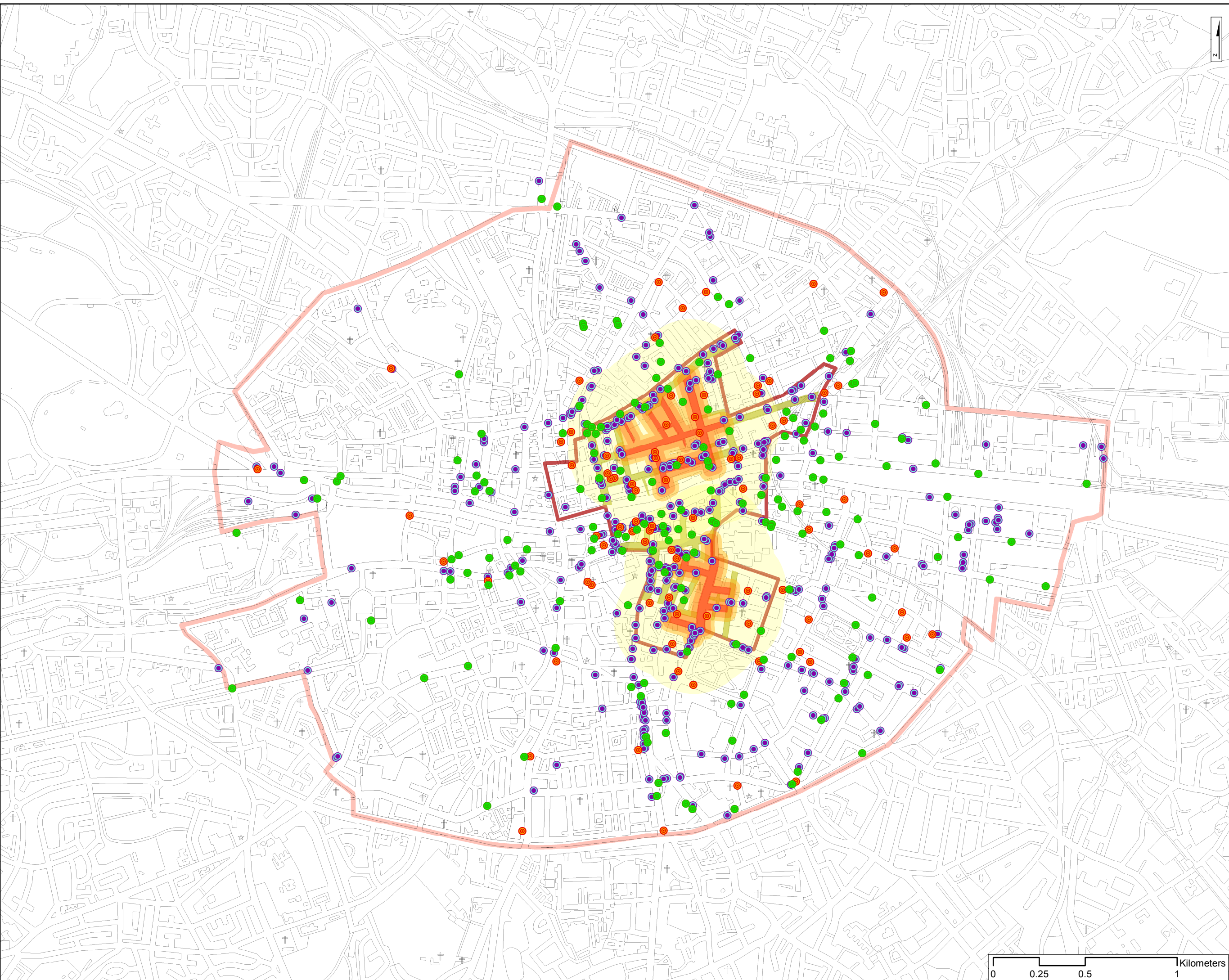
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- The National Transport Authority, 2030 Vision: The Greater Dublin Area Draft Transport Strategy 2011 – 2030 (2011);
- The National Transport Authority, Report on Trends in Mode Share of Vehicles and People Crossing the Canal Cordon 2006 to 2013 (2014);
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- O'Connor, D., Nix, J., Bradshaw, S., Shield, E., Report on Shopper Travel Behaviour in Dublin City Centre 2011 (2011);
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- The National Transport Authority, The National Rail Census 2012 (2013);
- Dublin City Council, Grafton Street Quarter Public Realm Plan 2014 (2014);
- Dublin City Council, Liberties Local Area Plan 2009 (2009);
- Dublin City Council, Parnell Square Cultural Quarter Vision Document: A Catalyst for Renewal and Growth along the Civic Spine (2013); and
- Transport for London, How to Provide Temporary Cycle Parking at Events?

**Appendix B – Gis Outputs**



- Key
- Proposed Cycle Parking Locations
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
  - ▭ City Centre Retail Core
  - ▭ Category 1 Retail Streets
  - ▭ Category 2 Retail Streets
  - ▭ 30m
  - ▭ 50m
  - ▭ 300m
  - ▭ Project Area Boundary



# HalcrowBarry

Halcrow Barry  
Classon House, Dundrum Business Park, Dublin 14  
Tel: +353 (1) 485 1400  
www.jbbarry.ie

Client

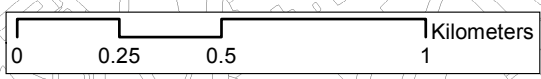


Project **Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing **Principal Retail Centres  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking**

Drawn by: O.O'R Date: 07.05.15  
Checked by: Date:  
Approved by: Date:

Drawing No. 005





- Key
- Proposed Cycle Parking Locations
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
- Base Cycle Network**
- B1 - Bus Lane (No Cycle Lane)
  - C1 - Cycle Track Separated from Road
  - C2 - Cycle Track Immediately Adjacent
  - C3 - Cycle Lane (Even within Bus Lane)
  - G1 - Cycle Trail or Greenway
  - Null
  - S1
  - S2 - Shared Walking and Cycling
  - Project Area Boundary

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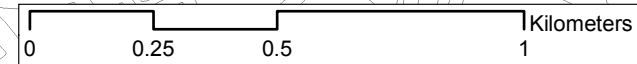


Project **Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing  
Current Cycle Network  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking

Drawn by: O. O'R Date: 07.05.15  
Checked by: Date:  
Approved by: Date:

Drawing No. 001





- Key
- Proposed High Density Cycle Parking
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
  - Dublin Bikes Stations
  - DART Stops
  - Luas: Green Line Stops
  - Luas: Red Line Stops
  - Luas: Green Line
  - Luas: Red Line
  - Luas: Red Line Docklands Extension
  - Project Area Boundary

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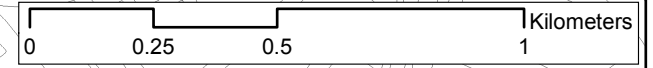


Project  
**Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing  
Current Public Transport Network  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking

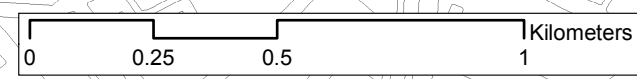
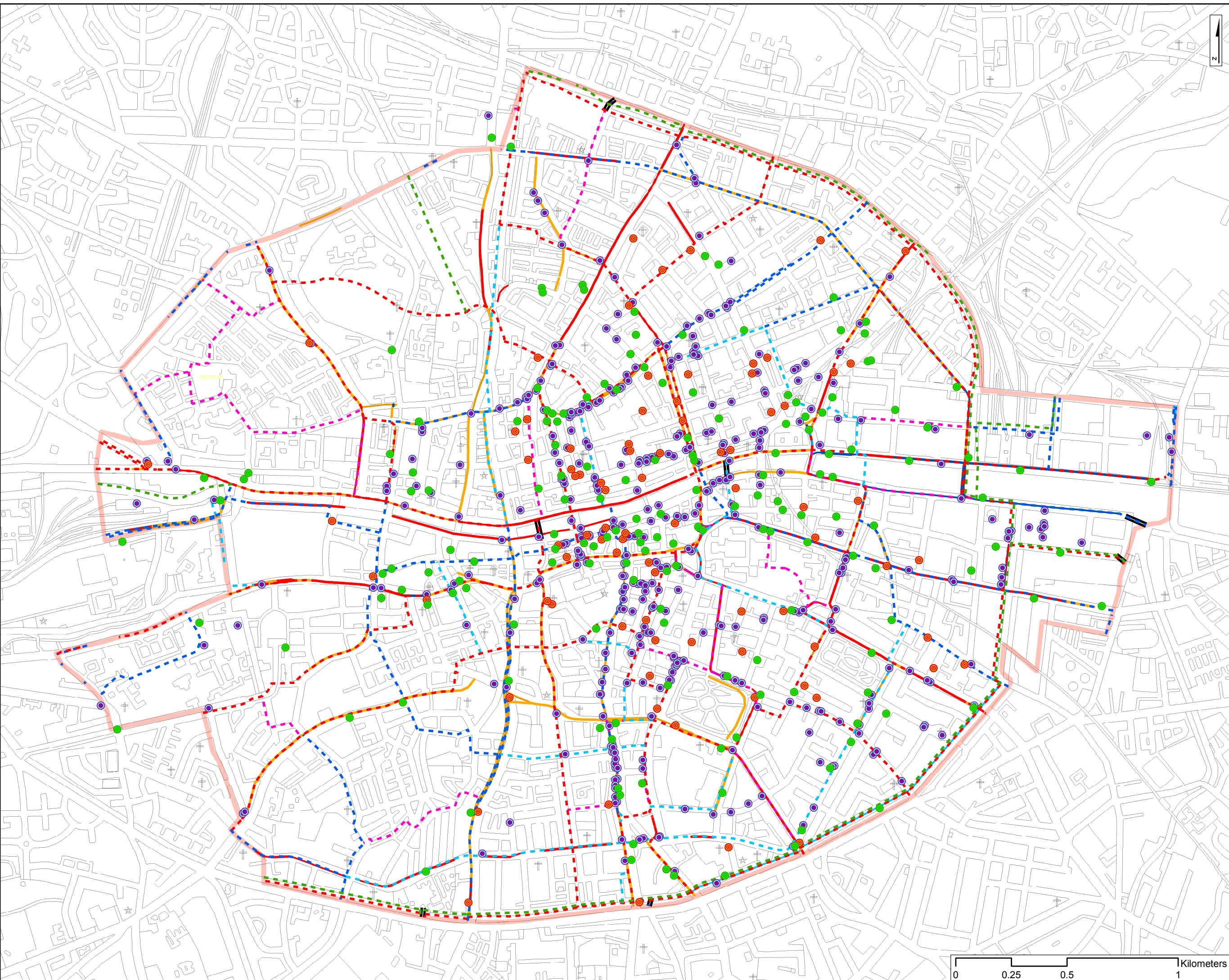
Drawn by: O. O'R Date: 07.05.15  
Checked by: Date:  
Approved by: Date:

Drawing No. 003





- Key**
- Proposed Cycle Parking Locations
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
- Proposed Cycle Network**
- Cross-City Link
  - Greenway
  - Primary
  - Secondary
  - Feeder
  - New Cycle Bridge
  - Permeability Link
- Base Cycle Network**
- B1 - Bus Lane (No Cycle Lane)
  - C1 - Cycle Track Separated from Road
  - C2 - Cycle Track Immediately Adjacent
  - C3 - Cycle Lane (Even within Bus Lane)
  - G1 - Cycle Trail or Greenway
  - Null
  - S1
  - S2 - Shared Walking and Cycling
  - Project Area Boundary



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Project **Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing **Future Cycle Network  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking**

Drawn by: O. O'R Date: 07.05.15  
Checked by: Date:  
Approved by: Date:

Drawing No. 002





- Key
- Proposed High Density Cycle Parking
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
  - Metro North: Stops
  - Blanchardstown BRT: Planned Stops
  - Clongriffin BRT: Planned Stops
  - Swords BRT: Emerging Route Preference
  - Swords BRT: Route Options
  - Dublin Bikes Stations: Expansion
  - Dublin Bikes Stations
  - DART Underground: 2030 Vision
  - DART Stops
  - Luas BXD: Cross City Line
  - Luas: Green Line Stops
  - Luas: Red Line Stops
  - Luas: Green Line
  - Luas: Red Line
  - Luas: Red Line Docklands Extension
  - Project Area Boundary

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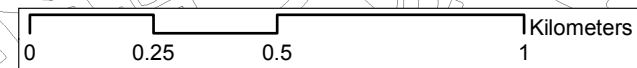


Project **Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing **Future Public Transport Network  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking**

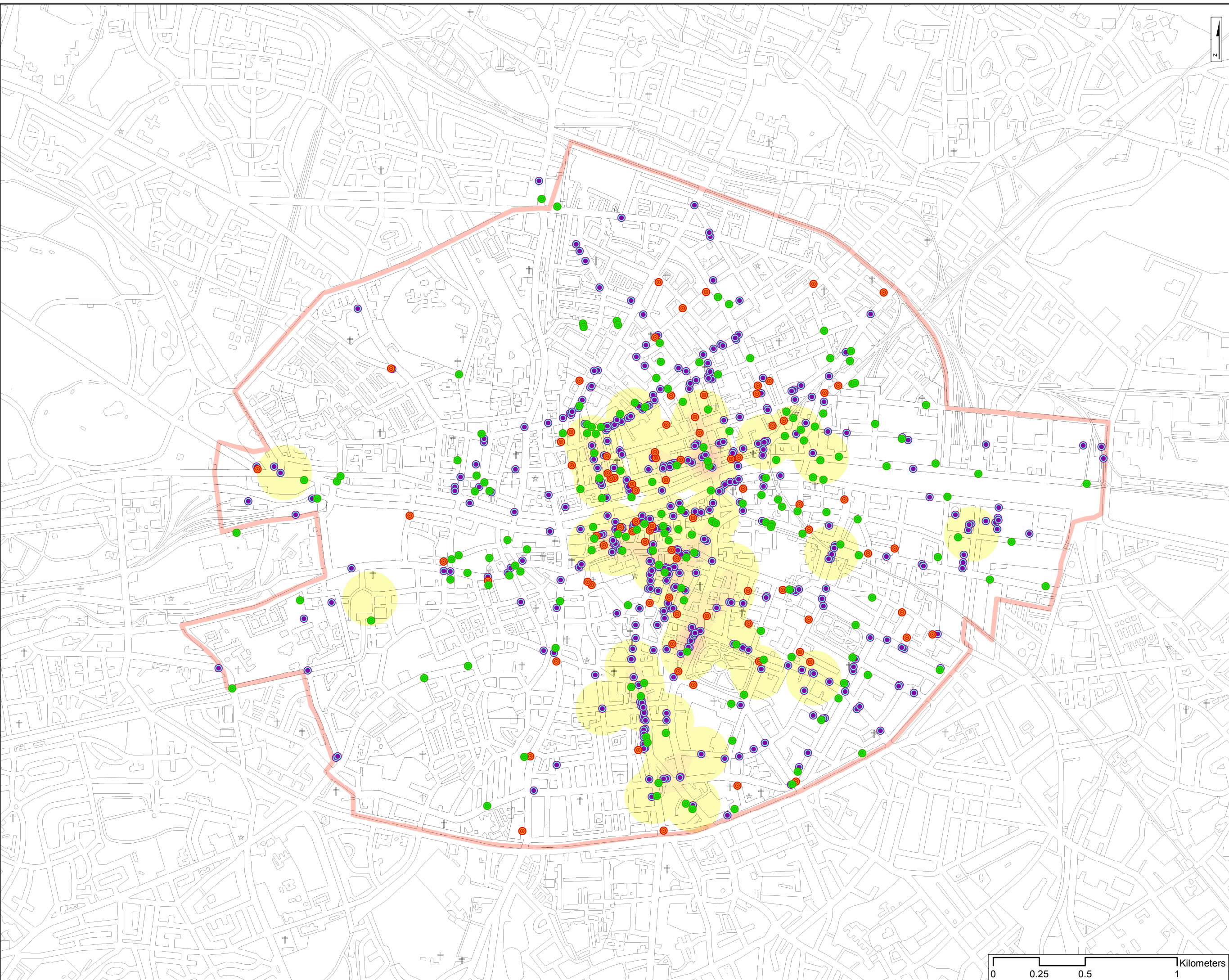
Drawn by: O'OR Date: 07.05.15  
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Drawing No. 004





- Key
- Proposed Cycle Parking Locations
  - Unfeasible High Density Cycle Parking
  - Existing On-Street Cycle Parking
- Haphazard Cycle Parking**  
% Max Density (R 150m)
- 1-26
  - 27-44
  - 45-62
  - 63-79
  - 80-97
  - 98-123
  - 124-150
  - 151-176
- Project Area Boundary



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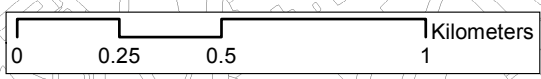


Project **Feasibility Study for the Provision of City Centre High Density Cycle Parking**

Drawing **Haphazard Cycle Parking  
Existing Cycle Parking  
Proposed Cycle Parking  
Unfeasible Cycle Parking**

Drawn by: O'OR Date: 07.05.15  
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Drawing No. 006



## **Appendix C - Data Tables Created for Demand Analysis**

The totals shown in tables 1, 2 and 3 are the inbound and outbound cycle traffic volumes at three hour intervals averaged over the two day period of the survey.

Table 1: Average total cycle traffic at canal cordon sites at three hour intervals (Dublin City Council Statistics 2012):

Site Number	Location	Average D1&2 In 07:00 - 10:00	Average D1&2 In 10:00 - 13:00	Average D1&2 In 13:00 - 16:00	Average D1&2 In 16:00 - 19:00	Average D1&2 Out 07:00 - 10:00	Average D1&2 Out 10:00 - 13:00	Average D1&2 Out 13:00 - 16:00	Average D1&2 In 16:00 - 19:00
1	Ringsend Road	268	91	116	188	164	59	103	228
2	Grand Canal Street Upper	203	61	88	176	239	76	79	229
3	Northumberland Road	363	102	104	203	130	62	102	262
4	Huband Bridge	162	28	33	46	74	28	34	121
5	Baggot Street Lower (Macartney Bridge)	334	86	109	126	111	77	104	217
6	Leeson Street Lower	744	167	156	223	149	104	135	498
7	Charlemont Street	503	124	104	159	108	70	131	499
8	Richmond Street South	852	294	213	238	88	91	176	668
9	Clanbrasil Street Upper	671	158	124	145	109	97	196	700
10	Donore Avenue	85	36	35	57	35	23	38	86
11	Dolphin's Barn Street	91	58	69	96	70	45	70	143
12	Herberton Road	158	38	31	52	56	31	52	136
13	South Circular Road	80	26	35	46	41	26	24	50
14	Old Kilmainham Road	39	19	21	26	17	12	22	43
15	Kilmainham Lane	77	15	16	20	7	8	15	67
16	St Johns Road West	74	19	21	42	48	12	21	96
17	Conyngnam Road	104	25	36	43	45	17	19	89
18	Chesterfield Avenue	311	33	27	38	31	18	38	262
19	North Road	35	13	27	40	31	26	30	57
20	Blackhorse Avenue	60	23	27	29	15	7	25	50
21	Old Cabra Road	139	52	41	40	29	25	53	101
22	Annamoe Road	46	10	13	34	25	12	26	37
23	Charleville Road	60	14	14	12	9	12	27	35
24	N3 at Dalymount	154	55	52	45	27	33	57	137
25	Phibsborough Road	307	89	101	133	94	49	88	218
26	Royal Canal Bank	66	14	13	8	3	9	10	46
27	Lower Dorset Street	521	117	115	146	103	79	123	406
28	Russell Street at the bridge	110	23	19	40	26	18	33	138
29	Summerhill Parade at the bridge	187	75	58	74	53	32	63	169
30	North Strand Road at Newcomen Bridge	887	176	147	194	130	89	211	756
31	Ossary Road	39	21	19	26	10	15	18	41
32	Sheriff Street Upper at the bridge	49	14	20	29	27	16	20	83
33	Northwall Quay at the bridge	173	59	53	103	87	33	59	144
34	East Road	165	32	33	54	52	30	37	176
35	Eastwall Road	134	28	42	100	104	24	39	133
36	Eastlink Bridge	134	27	49	159	152	40	44	112
37	Sir John Rogersons Quay	282	78	115	444	538	102	93	231
Totals 37 Sites		8657	2292	2285	3625	3028	1499	2409	7457
Totals 33 Sites		7943	2128	2047	2869	2183	1304	2196	6806
D = Day						In = Inbound			
Average D1 & 2 = (Sum D1 +Sum D2) / 2						Out = Outbound			

Table 2: Current and projected average total cycle traffic at canal cordon sites assuming 2012 mode share (Dublin City Council Statistics 2012):

Site Number	Location	Average Day 1&2 Total In	Inbound 2020 @ 2012 Mode Share	Inbound 2030 @ 2012 Mode Share	Average Day1&2 Total Out	Outbound 2020 @ 2012 Mode Share	Outbound 2030 @ 2012 Mode Share
1	Ringsend Road	663	781	930	553	652	776
2	Grand Canal Street	528	622	741	623	734	874
	Upper						
3	Northumberland Road	771	909	1082	555	655	779
4	Huband Bridge	269	317	377	256	302	359
5	Baggot Street Lower (Macartney Bridge)	654	771	917	509	600	714
6	Leeson Street Lower	1289	1520	1810	884	1043	1241
7	Charlemont Street	889	1049	1248	808	952	1134
8	Richmond Street	1595	1881	2239	1022	1205	1435
	South						
9	Clanbrassil Street	1097	1294	1540	1102	1299	1546
	Upper						
10	Donore Avenue	212	250	298	182	214	255
11	Dolphin's Barn Street	314	370	440	328	387	460
12	Herberton Road	278	328	390	274	323	385
13	South Circular Road	185	218	260	140	165	197
14	Old Kilmainham Road	103	121	145	93	110	131
15	Kilmainham Lane	128	150	179	97	114	135
16	St Johns Road West	155	183	218	176	208	247
17	Conyngham Road	207	244	291	170	200	238
18	Chesterfield Avenue	408	481	573	349	412	490
19	North Road	114	134	160	144	170	202
20	Blackhorse Avenue	138	163	194	96	113	135
21	Old Cabra Road	272	320	381	207	244	291
22	Annamoe Road	101	119	142	100	117	140
23	Charleville Road	99	116	138	82	97	115
24	N3 at Dalymount	305	360	428	253	298	354
25	Phibsborough Road	629	742	883	448	528	628
26	Royal Canal Bank	100	118	140	67	78	93
27	Lower Dorset Street	899	1060	1261	710	837	997
28	Russell Street at the bridge	191	225	268	214	252	300
	29						
30	North Strand Road at Newcomen Bridge	1403	1655	1970	1184	1397	1662
	31						
32	Sheriff Street Upper at the bridge	111	131	156	145	171	204
	33						
34	East Road	284	334	398	294	346	412
35	Eastwall Road	303	357	425	300	353	420
36	Eastlink Bridge	369	435	517	347	409	487
37	Sir John Rogersons Quay	918	1082	1288	964	1136	1353
Totals 37 Sites		16858	19884	23666	14392	16975	20204
Totals 33 Sites		14986	17676	21038	12489	14730	17532
D = Day				In = Inbound			
Average D1 & 2 = (Sum D1 +Sum D2) / 2				Out = Outbound			

Table 3: Total canal cordon traffic at 33 sites: Current and projected cycling mode share [P/C = Pedal Cyclist, In = Inbound Traffic, Out = Outbound Traffic, All totals represent the number of vehicle trips through the 33 canal cordon sites] (DCC Canal Cordon Count Data 2012).

Vehicle	Average Total In + Out	Average Total In	Average Total Out	
Car	277656.00	144774.00	132882.00	
Dbus	8135.00	4055.50	4079.50	
HGV2X	6303.00	3015.50	3287.50	
HGV3X	566.00	288.50	277.50	
HGV4X	645.00	332.00	313.00	
HGV5+X	341.50	162.00	179.50	
LGV	37832.00	18826.00	19006.00	
M/C	6390.50	3329.00	3061.50	
Obus	2503.00	1282.00	1221.00	
<b>P/C</b>	<b>27474.50</b>	<b>14986.00</b>	<b>12488.50</b>	
Ped	51682.00	17069.50	34612.50	
Taxi	39616.50	20102.00	19514.50	
Total	459145.00	228222.00	230923.00	
Projected Total 2017	510569.24	253782.86	256786.38	
<b>Current mode share cycling (%)</b>	<b>5.98</b>	<b>6.57</b>	<b>5.41</b>	
<b>2017 Total Cycling @ 15% Mode Share</b>	<b>76585.39</b>	<b>38067.43</b>	<b>35391.37</b>	
Vehicle	Average In 07:00 - 10:00	Average In 10:00 - 13:00	Average In 13:00 - 16:00	Average In 16:00 - 19:00
Car	50055.50	31505.00	30693.50	32520.00
Dbus	1132.50	906.50	883.50	1133.00
HGV2X	865.50	1079.50	767.00	303.50
HGV3X	93.00	94.50	59.50	41.50
HGV4X	104.00	94.00	102.00	32.00
HGV5+X	36.50	58.50	41.00	26.00
LGV	5278.50	5698.50	4804.50	3044.50
M/C	1425.00	637.50	601.00	665.50
Obus	379.50	300.00	304.50	298.00
<b>P/C</b>	<b>7942.50</b>	<b>2127.50</b>	<b>2047.00</b>	<b>2869.00</b>
Ped	17069.50	0.00	0.00	0.00
Taxi	4926.00	5282.00	4978.50	4915.50
Total	89308.00	47783.50	45282.00	45848.50
Projected Total 2017	99310.50	53135.25	50353.58	50983.53
<b>Current mode share cycling (%)</b>	<b>8.89</b>	<b>4.45</b>	<b>4.52</b>	<b>6.26</b>
<b>2017 Total Cycling @ 15% Mode Share</b>	<b>14896.57</b>	<b>7970.29</b>	<b>7553.04</b>	<b>7647.53</b>
Vehicle	Average Out 07:00 - 10:00	Average Out 10:00 - 13:00	Average Out 13:00 - 16:00	Average In 16:00 - 19:00
Car	23669.00	26222.00	34654.50	48336.50
Dbus	1112.00	941.50	915.50	1110.50
HGV2X	821.00	1167.50	896.00	403.00
HGV3X	88.00	102.50	61.00	26.00
HGV4X	85.00	102.00	93.00	33.00
HGV5+X	67.00	41.00	47.50	24.00
LGV	3559.50	5558.50	5566.50	4321.50
M/C	461.50	502.50	658.00	1439.50
Obus	306.00	270.00	290.50	354.50
<b>P/C</b>	<b>2183.00</b>	<b>1304.00</b>	<b>2196.00</b>	<b>6805.50</b>
Ped	0.00	0.00	0.00	15868.00
Taxi	4076.00	5448.50	5061.50	4928.50
Total	36428.00	41660.00	50440.00	83650.50
Projected Total 2017	40507.94	46325.92	56089.28	93019.36
<b>Current mode share cycling (%)</b>	<b>5.99</b>	<b>3.13</b>	<b>4.35</b>	<b>8.14</b>
<b>2017 Total Cycling @ 15% Mode Share</b>	<b>6076.19</b>	<b>6948.89</b>	<b>8413.39</b>	<b>13952.90</b>

Table 4: Henry Street Footfall: Inbound – Average Hourly Totals (DCC Raw Pedestrian Counter Statistics 2013)

Henry Street: Inbound - Average Hourly Totals							
Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
00:00:00	56	72	87	68	91	96	100
01:00:00	31	46	41	43	53	70	73
02:00:00	20	41	32	32	37	63	70
03:00:00	26	61	55	58	61	73	80
04:00:00	31	48	51	41	53	38	42
05:00:00	101	93	104	87	92	57	37
06:00:00	155	160	151	164	152	106	58
07:00:00	199	240	253	231	248	143	61
08:00:00	396	403	462	450	442	268	100
09:00:00	597	599	618	644	596	582	229
10:00:00	944	1015	1033	1122	1053	1110	492
11:00:00	1394	1475	1507	1585	1572	1584	828
12:00:00	1799	1905	1929	2065	2058	2109	1293
13:00:00	2399	2598	2586	2671	2690	2621	1659
14:00:00	2243	2301	2356	2484	2578	2986	1903
15:00:00	2293	2406	2412	2643	2627	3259	2060
16:00:00	2525	2591	2626	2890	2904	3737	2279
17:00:00	2578	2666	2798	2975	2999	3467	2259
18:00:00	1970	2077	2100	2387	2237	2476	1730
19:00:00	1043	1104	1173	1690	1465	1364	814
20:00:00	497	479	534	1270	785	568	397
21:00:00	300	279	318	592	426	384	246
22:00:00	188	195	199	254	254	243	164
23:00:00	123	133	141	155	193	192	111

Table 5: Grafton Street Footfall: Inbound – Average Hourly Totals (DCC Raw Pedestrian Counter Statistics 2013)

Grafton Street: Inbound - Average Hourly Totals							
Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
0:00:00	356	349	473	439	651	1056	1170
1:00:00	280	241	356	265	418	834	988
2:00:00	246	358	303	377	407	709	878
3:00:00	229	265	411	343	542	843	1167
4:00:00	212	141	292	164	301	485	689
5:00:00	93	72	75	74	105	191	253
6:00:00	149	168	165	172	182	148	127
7:00:00	358	407	380	416	401	200	122
8:00:00	1013	1129	1089	1120	1045	335	202
9:00:00	1056	1119	1084	1135	1145	745	388
10:00:00	1199	1244	1183	1292	1377	1477	925
11:00:00	1716	1762	1722	1805	1992	2423	1592
12:00:00	2613	2609	2522	2755	2884	3382	2414
13:00:00	3482	3749	3659	3748	3878	3847	2835
14:00:00	3143	3265	3149	3357	3622	4252	3162
15:00:00	2901	2926	2927	3125	3534	4335	3334
16:00:00	3066	3001	3002	3332	3716	4299	3316
17:00:00	3551	3788	3955	4249	4385	4229	3178
18:00:00	2988	3353	3572	4160	3769	3308	2296
19:00:00	1708	1965	2154	3034	2509	2288	1445
20:00:00	1069	1197	1327	2083	1717	1573	973
21:00:00	789	1013	1047	1348	1416	1359	701
22:00:00	598	868	826	995	1358	1348	664
23:00:00	490	729	708	928	1288	1335	544

Table 6: Henry Street Footfall: Inbound – Average Footfall Each 4 Week Period in 2013 (DCC Raw Pedestrian Counter Statistics 2013)

Henry Street: Inbound - Average footfall over four week Divisions in 2013									
4 week Period	Average Daily Footfall							Average Weekly Footfall	Average Daily Footfall
	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
1	16858	18542	22061	26012	21648	26622	14495	146237	20891
2	20020	20783	20826	24379	22861	24891	13967	147726	21104
3	18255	21252	21977	24004	23261	28829	15214	152791	21827
4	18297	22921	22662	28096	24964	27443	13471	157854	22551
5	20443	22856	23665	24062	26888	29999	15271	163183	23312
6	20388	22464	22553	24746	23911	26575	15464	156101	22300
7	25837	24501	29360	29049	29095	30168	19182	187191	26742
8	26486	26607	28527	31160	29253	29187	19983	191202	27315
9	26743	27131	27418	28907	27248	26697	20350	184493	26356
10	21687	21066	22285	23615	25013	25537	17765	156967	22424
11	20616	23793	23221	26881	24293	24136	17602	160541	22934
12	23490	24090	23438	27471	27615	27996	19093	173192	24742
13	25679	22798	18371	27404	27630	30705	20265	172851	24693

Table 7: Grafton Street Footfall: Inbound – Average Footfall Each 4 Week Period in 2013 (DCC Raw Pedestrian Counter Statistics 2013)

Grafton Street: Inbound - Average footfall over four week Divisions in 2013									
4 week Period	Average Daily Footfall							Average Weekly Footfall	Average Daily Footfall
	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
1	22379	31031	35404	39915	37139	42810	24644	233321	33332
2	29335	31757	33955	37581	42295	45701	27792	248415	35488
3	28125	29831	32953	34969	39631	47172	33385	246064	35152
4	27788	33685	33839	40075	39739	44804	26572	246502	35215
5	29289	31350	30968	36196	38028	44646	31630	242107	34587
6	32132	31643	33022	37346	39153	42334	33846	249476	35639
7	34818	35444	37313	42168	42935	44472	34053	271203	38743
8	36885	38352	40837	42140	43598	43735	34990	280536	40077
9	37071	38762	39831	41904	42350	42223	35261	277402	39629
10	37155	37415	38584	41953	45479	45327	35471	281383	40198
11	37076	40841	40302	45036	46690	43928	35412	289285	41326
12	36002	38423	39456	43203	47982	46362	37153	288581	41226
13	44902	45761	36511	46809	49351	51463	43514	318311	45473



Table 8 A: NTA Projected Population 2030 Greater than or Equal to 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Ballybough	4624	N/A	0	N/A	0	0	0	0	
Ballybough - croke Park	3422	North circular road and belvidire road junction	3	Sheffield Stand	3	9	8	20	Adjacent Site Outside Project Area - Cultural Attraction - Croke Park
		Dorset street outside gaa ticket office	5	Sheffield Stand	5	11			
Christchurch-Francis St	2244	Francis street outside reillys pharmacy	3	Sheffield Stand	3	5	20	39	Blanchardstown BRT - Christchurch Clongriffin BRT - Christchurch
		Francis street opposite the liberty bell pub	4	Sheffield Stand	4	8			
		The coombe outside oven den house.	4	Sheffield Stand	4	10			
		Christchurch square	4	Sheffield Stand	4	8			
		End of Patricia street outside spar	5	Sheffield Stand	5	8			
Clanbrassil Street-Sth Circular	2224	South Circular road tesco	3	Sheffield Stand	3	8	3	8	
Cork Street	3425	Cork street	3	Sheffield Stand	3	6	14	33	Luas Red Line
		Fatima luas stop	5	Sheffield Stand	5	15			
		Cork street	6	Sheffield Stand	6	12			
Cork Street-Hospital	2827	N/A	0	N/A	0	0			
Dorset Street	3444	N/A	0	N/A	0	0			
Dorset Street-Berkley Rd	2718	Berkeley road outside Flanagan's pharmacy	2	Sheffield Stand	2	7	13	43	
		Berkeley road outside post office	2	Sheffield Stand	2	4			
		Blessington street outside La Pausa cafe	2	Sheffield Stand	2	6			
		Bloomington street outside Dargans pharmacy.	3	Sheffield Stand	3	18			
		Berkeley road outside Berkeley wash	4	Sheffield Stand	4	8			
Grand Canal Docks	9560	Blood stone road	4	Stainless Steel Curved	4	10	107	226	Cultural Attraction - Grand Canal Theatre (Board Gais Energy Theatre)
		Grand canal docks outside fresh	4	Stainless Steel Curved	4	12			
		Blood stone road	4	Stainless Steel Curved	4	12			
		Top of Forbes street	4	Stainless Steel Curved	4	7			
		Sir john Robertson quay	4	Stainless Steel Curved	4	12			
		Grand canal docks	5	Stainless Steel Curved	5	15			
		Admiral brown street	6	Stainless Steel Curved	6	12			
		Benson street	8	Stainless Steel Curved	8	16			
		Horse fair	8	Stainless Steel Curved	8	16			
		All along Forbes street	12	Stainless Steel Curved	12	24			
		All along Forbes street	12	Stainless Steel Curved	12	24			
		A'll along bood stone road	12	Stainless Steel Curved	12	24			
		Blood stone /road horse fair intersection	12	Stainless Steel Curved	12	24			
		All along blood stone road	12	Stainless Steel Curved	12	18			

Table 8 B: NTA Projected Population 2030 Greater than or Equal to 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Griffith College	2369	N/A	0	N/A	0	0	0	0	Clongriffin BRT - Clanbrassil Street
IFSC-Luas	2170	Both wall quay opposite the Spenser.	4	Stainless Steel Curved	4	12	22	63	Luas Red Line
		Mayor street lower outside AIB	6	Stainless Steel Curved	6	21			
		Mayor square outside Snap and national college of Ireland.	12	Stainless Steel Curved	12	30			
James Street-Guinness Brewery	4146	N/A	0	N/A	0	0	0	0	
James Street-Storehouse	5086	James street outside McCanns pub	3	Sheffield Stand	3	5	7	12	Cultural Attraction - Guinness Store House
		NA	4	Sheffield Stand	4	7			
James Street-Watling St	5488	N/A	0	N/A	0	0	0	0	
Kilmainham-Royal Hosp	10935	Houston station	166	Sheffield Stand	166	206	166	206	Luas Red Line - Heuston Train Station
Landsdowne	6208	N/A	0	N/A	0	0	0	0	
Mater	2395	North Circular road outside Matter hospital.	25	Stainless Steel Curved	25	37	25	37	Metro North - Mater
Mountjoy	2324	N/A	0	N/A	0	0	0	0	
North Wall Quay	10904	East wall road outside the O2	4	Sheffield Stand	4	24	62	128	Luas Red Line X2 Cultural Attraction - The O2 Arena
		Mayor street upper beside the point luas station	6	Sheffield Stand	6	24			
		East wall road outside the O2	18	Sheffield Stand	18	36			Adjacent Site Outside Project Area - Docklands DART Station
		Sponsor Dock Luas station	34	Sheffield Stand	34	44			
Oxmanstown	2456	N/A	0	N/A	0	0	0	0	
Parnell Square	2564	Parnell Street outside Centra	1	Hoops	2	2	14	44	Cultural Attraction - The Gate Theatre Cultural Attraction - Dublin City Gallery The Hugh Lane
		Parnell square west	4	Sheffield Stand	4	12			
		Parnell street outside king fisher restaunt.	4	Sheffield Stand	4	6			
		Parnell square north	4	Sheffield Stand	4	24			
Parnell Square	2564	Parnell square west outside the rotunda hospital	8	Sheffield Stand	8	14	21	27	
		Cavendish road outside the Ambassador theatre.	13	Sheffield Stand	13	13			
Pearse Street - Grand Canal Station	3586	Grand canal street lower	4	Sheffield Stand	4	10	9	20	Adjacent Site Outside Project Area - Grand Canal Dock DART Station
		Grand canal docks	5	Stainless Steel Curved	5	10			

Table 8 C: NTA Projected Population 2030 Greater than or Equal to 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Portobello - richmond St	2762	NA	0	HapHazard	0	0	0	0	
Ringsend	4823	N/A	0	N/A	0	0	0	0	
Smithfield	2245	NA	1	Hoops	2	2	14	21	Blanchardstown BRT - Queen Street Cultural Attraction - Collins Barracks
		NA	1	Hoops	2	2			
		Queen street probation service	10	Sheffield Stand	10	17			
Stoneybatter - Stanhope St	2577	N/A	0	N/A	0	0	0	0	Blanchardstown BRT - Stoneybatter
Summerhill - Rutland St	2140	Start of Summer hill	3	Sheffield Stand	3	9	3	9	
Talbot Street	2047	Foley street outside dance Ireland	2	Sheffield Stand	2	5	38	85	Luas Red Line
		Foley street	3	Sheffield Stand	3	12			
		Foley street	3	Sheffield Stand	3	18			
		Amiens street under train tracks	3	Sheffield Stand	3	12			
		Mabbot lane	6	Sheffield Stand	6	6			
		Talbot street across the road from Paddy Power	9	Sheffield Stand	9	14			
		Talbot street outside wake cup	12	Sheffield Stand	12	18			
Thomas Street - Meath St	2390	Thomas street across from the hill top bar	3	Sheffield Stand	3	6	3	6	Blanchardstown BRT - Liberties Quarter
Trinity College - Sandwith St	2087	Pearce street	2	Sheffield Stand	2	8	4	14	
		Bottom of Westmoreland street	2	Sheffield Stand	2	6			

Table 9 A: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Amiens Street	1487	na	0	na	0	0	0	0	Clongriffin BRT Stop
Baggot Street - Lad Lane	534	na	1	Hoops	2	2	4	12	
		Fitzwilliam Place	2	Sheffield Stand	2	10			
Baggot Street Lwr	216	Maggot street lower outside Medmark healthcare	2	Sheffield Stand	2	12	21	62	
		Baht street lower outside Larry Murphy's	2	Sheffield Stand	2	8			
		Maggot street lower outside bank of ireland	4	Sheffield Stand	4	16			
		Fitzwilliam street lower	4	Sheffield Stand	4	12			
		Fitzwilliam street lower	4	Sheffield Stand	4	8			
		Baggot street lower outside tailored finance.	5	Sheffield Stand	5	6			
Bolton Street	1524	Dorset Street Upper outside Ritzzy Rags Shop	2	Sheffield Stand	2	8	53	125	
		Parnell street	3	Sheffield Stand	3	9			
		Capel street outside Dublin College of Advanced Studies	4	Sheffield Stand	4	14			
		Start of kings inn street	4	Sheffield Stand	4	12			
		Kings Inn Street	4	Sheffield Stand	4	14			
		Parnell street outside euro giant	5	Sheffield Stand	5	15			
		Capel Street outside The Horse Shoe shop	6	Sheffield Stand	6	9			
		Parnell street outside cineworld.	7	Sheffield Stand	7	14			
		Bolton Street outside DIT	7	Sheffield Stand	7	18			
Parnell street outside cycleways.	11	Sheffield Stand	11	12					

Table 9 B: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Camden Street	702	na	0	na	0	0	0	0	
Camden Street - Garda HQ	697	Camden street lower outside centra shop	1	Sheffield Stand	1	11	72	165	Luas Green Line Stop
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		Camden street lower outside ulster bank	2	Sheffield Stand	2	4			
		Camden street outside penny farthing cycles	2	Sheffield Stand	2	2			
		Camden street lower	2	Sheffield Stand	2	6			
		Camden street lower across from Fontana cafe	2	Sheffield Stand	2	6			
		Camden street lower outside tommy Moore jewellers	2	Sheffield Stand	2	2			
		Wexford street Infront of bank of ireland	2	Sheffield Stand	2	10			
		Harcourt road in front of regius building	4	Sheffield Stand	4	12			
		Camden street lower outside cracker nut cafe	4	Sheffield Stand	4	12			
		Camden street lower Infront of enable ireland	5	Sheffield Stand	5	13			
		Camden street lower Simon community shop.	5	Sheffield Stand	5	13			
		Camden street Infront of great deals store.	6	Sheffield Stand	6	12			
		Camden street lower Infront of icon health store.	6	Sheffield Stand	6	12			
Camden street upper outside damascus gate restaurant	8	Sheffield Stand	8	12					
Harcourt street outside Starbucks	17	Sheffield Stand	17	34					

Table 9 C: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Capel Street	1648	Capel street opposite spar	1	Sheffield Stand	1	1	44	107	Luas Red Line Stop
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		Jervis street	2	Sheffield Stand	2	8			
		Jervis street outside McDonolds.	3	Sheffield Stand	3	12			
		Capel street outside capel kebab and pizza house	3	Sheffield Stand	3	9			
		Capel street outside spar	3	Sheffield Stand	3	6			
		Great strand street outside pantibar	3	Sheffield Stand	3	6			
		Jervis street opposite TP Smiths	3	Sheffield Stand	3	9			
		Upper abbey street near the Jervia Luas stop.	3	Sheffield Stand	3	5			
		Capel street outside mcQuillan tools	6	Sheffield Stand	6	12			
		Grattan bridge	6	Sheffield Stand	6	18			
		Wolfe tone street outside AXA office	7	Sheffield Stand	7	17			
Capel Street - Jervis	883	Capel street outside AIB bank	1	Sheffield Stand	1	5	31	74	
		na	1	Hoops	2	2			
		Mary street outside Mary Mall	2	Sheffield Stand	2	8			
		Capel street outside codys of Capel Street.	2	Sheffield Stand	2	2			
		Wolfe Tone Street outside Alexanders bridal shop	3	Sheffield Stand	3	9			
		Wolfe tone street	5	Sheffield Stand	5	11			
		Parnell street outside Jervis medical centre	5	Sheffield Stand	5	7			
		Jervis Street outside Penny's Parnell Street outside Alexander's bridal shop	6	Sheffield Stand	6	18			
Christchurch	1491	Patrick street opposite daybreak shop	2	Sheffield Stand	2	8	2	8	
Christchurch-Merchant Quay	530	Merchants quay	4	Sheffield Stand	4	8	9	23	Cultural Attraction - Dublinia and Viking World
		High street	5	Sheffield Stand	5	15			

Table 9 D: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Christchurch-Wood Quay	0	Wood quay outside DCC	5	Sheffield Stand	5	7	25	45	Cultural Attraction - Wood Quay Venue and My City Exhibition Cultural Attraction - Christ Church Cathedral
		Christ church place outside sunny's newsagent	6	Sheffield Stand	6	10			
		Start of westborough street beside the butchers bar	14	Sheffield Stand	14	28			
Clanbrassil Street	1750	Ovoca	4	Sheffield Stand	4	4	4		
Collins Barracks	3	na	0	na	0	0	0	0	Cultural Attraction - National Museum: Decorative Arts and His Luas Red Line Stop
Coombe	1331	na	0	na	0	0	0	0	
Coombe-Dublin Corpo	1636	na	0	na	0	0	0	0	
Dorset Street-Temple St	1403	North Frederick street outside Lady beauty Parlour	3	Sheffield Stand	3	9	3	9	
Fourcourts	622	Ormond square	3	Sheffield Stand	3	4	18	42	Luas Red Line Stop Cultural Attraction - The Four Courts
		Opposite 179 Church street	4	Sheffield Stand	4	16			
		Four courts luas stop	11	Sheffield Stand	11	22			
Gardiner Street	1605	Parnell street outside lomdis	2	Sheffield Stand	2	8	58	163	
		Parnell street outside temple hall	2	Sheffield Stand	2	10			
		Parnell street outside 147 deli	2	Sheffield Stand	2	10			
		Top of Parnell street opposite Londis	2	Sheffield Stand	2	8			
		Cumberland street North outside nam thanh supermarket	2	Sheffield Stand	2	10			
		Cathal Brugha street	4	Sheffield Stand	4	10			
		Top of Parnell street outside Foleys pharmacy	4	Sheffield Stand	4	10			
		top of Parnell street	4	Sheffield Stand	4	14			
		Marlborough street opposite An Board Pleanala	5	Sheffield Stand	5	13			
		Marlborough street outside eircon and kanoodle	8	Sheffield Stand	8	24			
		Cathal Brugha street outside the Irish aid office	9	Sheffield Stand	9	18			
		Cathal Brugha Street outside the Living Room pub	14	Sheffield Stand	14	28			
Gardiner Street-Ritland Place	1755	Top of Parnell square east.	2	Sheffield Stand	2	4	2	4	Cultural Attraction - James Joyce Cultural Centre
Georges Street	402	Wexford street in front of whelans off licence	3	Sheffield Stand	3	3	22	49	Cultural Attraction - National Archives
		Aungier street outside DIT	4	Railing	4	6			
		Kevin's street outside O'Hara's pharmacy	5	Sheffield Stand	5	10			
		New bride street Infront of small green	5	Sheffield Stand	5	10			
		Aungier street outside DIT	5	Sheffield Stand	5	20			

Table 9 E: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Georges Street-Andrews Lane	38	na	1	Hoops	2	2	37	47	
		na	1	Hoops	2	2			
		Saint Andrew street	3	Sheffield Stand	3	6			
		Trinity street	4	Railing	4	8			
		Trinity street outside jack jones shop	4	Sheffield Stand	4	6			
		Bottom of grafton streer	10	Sheffield Stand	10	11			
		College green outside dubarry of Ireland shop	12	Sheffield Stand	12	12			
Georges Street-Dublin Castle	187	Exchequer Street outside Fallon Byrne	1	Sheffield Stand	1	4	22	52	Blanchardstown BRT Stop - South Great Georges Street Cultural Attraction - Dublin Castle Cultural Attraction - Chester Beatty Library
		Excheqer Street	1	Hoops	2	2			
		na	1	Hoops	2	2			
		Exchequer Street	1	Hoops	2	2			
		Exchequer street	2	Sheffield Stand	2	8			
		George's street opposite Dublin business school	4	Sheffield Stand	4	8			
		George's street great south outside Dublin business school	4	Sheffield Stand	4	16			
		South George's street outside Diwali	5	Sheffield Stand	5	10			
Georges Street-Ship St	1203	Aungier street outside queen beauty salon	1	Hoops	2	2	13	38	
		Aungier street outside YMCA	5	Sheffield Stand	5	12			
		Stephens street upper beside IBOA House	6	Sheffield Stand	6	24			



Table 9 F: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Grafton Street-Drury st	205	William street south duke street gallery.	2	Sheffield Stand	2	12	74	141	
		George's street outside Hogans pub	3	Sheffield Stand	3	6			
		Drury street outside Carousel	3	Sheffield Stand	3	6			
		Fade street outside the rage record store	3	Stainless Steel Curved	3	8			
		Fade street outside hogans bar	3	Stainless Steel Curved	3	6			
		South George's street outside laser dvd	4	Sheffield Stand	4	4			
		William street south outside dada restauntsnt	5	Sheffield Stand	5	10			
		Johnstone place outside pharmacy	6	Sheffield Stand	6	9			
		Start of South William street outside jewl in the crown	7	Sheffield Stand	7	12			
		Coppinger row	8	Sheffield Stand	8	20			
		Drury street outside George's st. arcade	8	Sheffield Stand	8	10			
		Drury street outside Irish design shop	9	Sheffield Stand	9	18			
		Edge of exchequer street outside pharmacy and rustic stone	13	Sheffield Stand	13	20			
Grafton Street-Duke St	91	na	1	Hoops	2	2	16	33	
		Molesworth street	4	Railing	4	6			
		St Stephens green north outside permanent tsb	10	Sheffield Stand	10	25			
Grafton Street-Molesworth St	62	na	1	Hoops	2	2	25	69	Cultural Attraction - National Library of Ireland
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	2	Sheffield Stand	2	11			
		na	3	Sheffield Stand	3	10			
		Goldsworthy street outside Foxx Coffee House	6	Sheffield Stand	6	18			
		St Stephen's green North	8	Sheffield Stand	8	24			

Table 9 G: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Grafton Street-Stephens Green SC	499	na	1	Hoops	2	2	75	170	
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		St Stephens green Luas in front of certus	5	Sheffield Stand	5	20			
		York street royal college of surgeons	10	Sheffield Stand	10	30			
		York street across from Dublinbike station	10	Sheffield Stand	10	30			
		Stephens green in front of beneton shop	15	Sheffield Stand	15	30			
Noel Purcell Walk Infront of beaux lane house	25	Sheffield Stand	25	50					
Grafton Street-Wicklow St	114	Suffolk street	4	Railing	4	12	39	92	
		Coppinger row	4	Railing	4	8			
		na	4	Railing	4	12			
		Chatham road outside DIT music and drama	4	Sheffield Stand	4	5			
		Clarendon street across from BT	4	Sheffield Stand	4	4			
		Johnstons place outside pearls shop	5	Sheffield Stand	5	15			
		Chatham road outside Mao restaurant	6	Sheffield Stand	6	12			
		St. Stephens Green outside oxfam and specsavers	8	Sheffield Stand	8	24			
Heuston	1253	Houston train station	8	Sheffield Stand	8	14	24	38	Luas Red Line Stop
		Heuston Luas stop	16	Sheffield Stand	16	24			

Table 9 H: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
IFSC-Connolly Luas	807	Custom House Quay outside AIB International Centre	1	Sheffield Stand	1	7	30	60	Luas Red Line Stop
		Store street outside Bus Eireann	3	Sheffield Stand	3	9			Luas Red Line Stop
		Georges dock outside Ely chq	4	Sheffield Stand	4	12			
		George's Dock across the road from KPMG	4	Stainless Steel Curved	4	14			
		Amiens Street at Luas station	8	Sheffield Stand	8	8			
		Beresford Place Infront of Busaras.	10	Sheffield Stand	10	10			
James Hospital	1049	St James hospital	40	Sheffield Stand	40	40	40	40	Luas Red Line Stop X2
Kings Inn	935	Dorset street upper outside techno logic	2	Sheffield Stand	2	8	2	8	
Leeson Street	223	Hatch street lower	3	Sheffield Stand	3	9	18	39	Blanchardstown BRT Stop - Leeson Street Lower
		Hatch street lower	4	Sheffield Stand	4	8			
		End of Hatch street lower both sides of the road outside cafe sol	11	Sheffield Stand	11	22			
Merrion Square	337	na	1	Hoops	2	2	28	55	Cultural Attraction - No. 29 Georgian House Museum
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		Merrion square North	4	Sheffield Stand	4	12			
		Top of baggot street lower end of pembroke street lower	5	Sheffield Stand	5	8			
		Merrion square east Fitzwilliam street lower	5	Sheffield Stand	5	15			
6	Sheffield Stand	6	12						
Merrion Square-Leinster House	30	na	1	Hoops	2	2	10	18	Cultural Attraction - National History Museum
		Start of Leinster street south	3	Sheffield Stand	3	8			Cultural Attraction - National Museum of Ireland
		Leinster street south outside TCD Leinster street	5	Sheffield Stand	5	8			Cultural Attraction - National Gallery of Ireland

Table 9 I: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Mount Street	578	Mount street lower opposite howl at the moon club	3	Sheffield Stand	3	9	37	92	
		Mount street lower outside board bia	4	Railing	4	10			
		Mount street lower opposite new mount house	4	Sheffield Stand	4	12			
		Mount street upper	6	Sheffield Stand	6	18			
		Mount street lower opposite new mount house	6	Sheffield Stand	6	15			
		Mount street uppwr	7	Sheffield Stand	7	14			
		Mount street ctescent	7	Sheffield Stand	7	14			
Mountjoy Square	1568	North circular road outside carolans off licence	2	Sheffield Stand	2	8	16	46	
		Mountjoy square noeth	5	Sheffield Stand	5	20			
		Mountjoy square south outside dit	9	Sheffield Stand	9	18			
North King Street	1375	North king street	2	Sheffield Stand	2	12	21	58	
		North kings street	3	Sheffield Stand	3	9			
		North kings streetboutside macro	3	Sheffield Stand	3	9			
		North kings street outside centra	4	Sheffield Stand	4	8			
		Church street Londis	4	Sheffield Stand	4	8			
North king street	5	Sheffield Stand	5	12					
O'Connell Street - Bachelors Walk	1233	na	1	Hoops	2	2	71	152	Metro North - O Connell Bridge
		na	1	Hoops	2	2			
		Middle abbey street outside arnotts carpark	2	Sheffield Stand	2	12			
		Middle abbey street	3	Sheffield Stand	3	9			
		End of Liffey street lower outside the grand social	4	Sheffield Stand	4	6			
		Middle abbey street outside celebration party shop.	4	Sheffield Stand	4	12			
		Middle abbey street outside arnotts.	4	Sheffield Stand	4	6			
		Middle abbey street outside hidden hearing.	4	Sheffield Stand	4	12			
		Middle abbey street across the road from the Gin Palace pub	5	Sheffield Stand	5	10			
		Middle abbey street outside austrailia travel.	5	Sheffield Stand	5	13			
		Liffey street outside entrance to Arnotts.	8	Sheffield Stand	8	16			
		Middle abbey street outside independent house newspaper limited.	10	Sheffield Stand	10	25			
Prince's street north outside penny's	18	Sheffield Stand	18	27					

Table 9 J: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
O'Connell Street - Cathedral St	1518	O'Connell Street outside the Gresham hotel	1	Hoops	2	2	31	67	Cultural Attraction - The Spire Cultural Attraction - St. Mary's PRO Cathedral
		na	1	Hoops	2	2			
		Talbot Street outside Carrolls shop	4	Sheffield Stand	4	8			
		Marlborough street outside admiral restraunt	4	Sheffield Stand	4	12			
		Talbot Street outside Singer shop	5	Sheffield Stand	5	15			
		Marlborough Street outside Spar shop	5	Sheffield Stand	5	5			
		Cathal Brughha Street outside DIT	9	Sheffield Stand	9	23			
O'Connell Street - Ilac Centre	346	na	1	Hoops	2	2	29	62	
		Parnell street outside Paddy Powers	1	Hoops	2	2			
		Parnell street across the road from Euro Giant shop	2	Sheffield Stand	2	2			
		Parnell street outside beauty chic	2	Sheffield Stand	2	10			
		Parnell Street outside Burger King	4	Sheffield Stand	4	12			
		Parnell street outside Centra	6	Sheffield Stand	6	15			
		Parnell Streer outside Aldi	11	Sheffield Stand	11	19			

Table 9 K: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
O'Connell Street - Lwr Abbey Street	179	na	1	Hoops	2	2	81	169	Clongriffin BRT Stop O'Connell Bridge Luas Red Line Stop Cultural Attraction - The General Post Office Cultural Attraction - The Abbey Theatre
		na	1	Hoops	2	2			
		Sack like place	2	Sheffield Stand	2	6			
		Eden Quay ooutside Liberty Hall	2	Sheffield Stand	2	6			
		Abbey street lower near abbey street luas station	3	Sheffield Stand	3	12			
		Bresford Place beside Liberty Hall and bus eireann bus stop	3	Sheffield Stand	3	9			
		Beresford Place median	3	Sheffield Stand	3	6			
		Eden Quay outside Beresford Court	4	Sheffield Stand	4	10			
		Marlborough street	4	Sheffield Stand	4	8			
		O'Connell street median behind Sir John Gray monument	4	Sheffield Stand	4	14			
		Start of marborough street outside the abbey theatre	5	Sheffield Stand	5	7			
		Prince's street north outside penny's.	5	Sheffield Stand	5	8			
		Talbot street outside Guiney and co.	6	Sheffield Stand	6	15			
		Sacville Place	7	Railing	7	14			
		Abbey Street Lower outside Beresford Court.	8	Sheffield Stand	8	16			
		Eden quay	10	Sheffield Stand	10	12			
Abbey Street Lower outside Abbey Theatre.	11	Sheffield Stand	11	22					
Oxmanstown - Arbour Hill	1425	Parkgate street outside Londis\Subway	3	Sheffield Stand	3	6	10	17	
		Infirmary road	7	Sheffield Stand	7	11			

Table 9 L: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Oxmanstown - Montpellier	1101	na	0	na	0	0	0	0	
Patricks Cathedral	1354	na	0	na	0	0	0	0	Cultural Attraction - Saint Patrick's Cathedral
Pearse Street	1187	Pearce street outside garden area	3	Sheffield Stand	3	18	7	26	
		Pearce street opposite parser square	4	Sheffield Stand	4	8			
Phibsboro Road	1610	na	0	na	0	0	0	0	
Phibsboro Road - Broadstone	1502	na	0	na	0	0	0	0	
Phoenix Park	1594	Outside criminal courts of justice	42	Sheffield Stand	42	54	42	54	
Portobello	1477	End of Adelaide road beside kiosk	4	Sheffield Stand	4	10	13	28	Adjacent Site Outside Project Area Blanchardstown BRT Stop Stop
		Charlemont place beside luas station	9	Sheffield Stand	9	18			Adjacent Site Outside Project Area Luas Green Line Stop
Prussia Street	1651	na	0	na	0	0	0	0	Blanchardstown BRT Stop - Prussia Street
Prussia Street - Grangegorman	1045	Prussia street	4	Sheffield Stand	4	7	4	7	
Seville Place	1694	Amiens street outside the funky skunk	4	Sheffield Stand	4	10	8	20	Clongriffin BRT Stop Portland Row DART - Connolly Train Station
		North strand road	4	Sheffield Stand	4	10			
Smithfield - Luas Stop	1554	na	1	Hoops	2	2	35	71	Luas Red Line Stop Cultural Attraction - Jameson Distillery Cultural Attraction - Smithfield Viewing Tower
		na	1	Hoops	2	2			
		Aaran quay outside bank of Ireland	4	Sheffield Stand	4	12			
		Smithfield near luas station	6	Sheffield Stand	6	6			
		Top of Smithfield	6	Sheffield Stand	6	12			
		Phoenix street north	7	Sheffield Stand	7	21			
Stephens Green	206	Start of st. Stephen's Green terrace.	4	Sheffield Stand	4	10	11	26	Luas Green Line Stop Metro North - St Stephens Green Blanchardstown BRT Stop - St Stephen's Green
		Hume street	7	Sheffield Stand	7	16			
Stephens Green - Cuffe St	1241	Wexford street djinn shop across the road from opium	2	Sheffield Stand	2	5	21	65	Blanchardstown BRT Stop - Aungier St
		Wexford street Infront of mega bikes.	3	Sheffield Stand	3	6			
		Wexford street outside solo clothes shop.	3	Sheffield Stand	3	5			
		Cuffe street across from O'callaghan Stephen green hotel	5	Railing	5	25			
		Mercer street outside DCC	8	Sheffield Stand	8	24			

Table 9 M: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Stephens Green - fitzwilliam Sq	343	Fitzwilliam street upper	4	Sheffield Stand	4	8	19	42	
		Start of Fitzwilliam square north	4	Sheffield Stand	4	10			
		Pembroke street lower opposite coffee angel.	4	Sheffield Stand	4	10			
		Fitzwilliam square north	7	Sheffield Stand	7	14			
Stephens Green - Iveagh Gardens	105	Earlsfort Terrace	4	Railing	4	16	4	16	Cultural Attraction - The National Concert Hall
Stoneybatter	1692	Manor street	6	Sheffield Stand	6	12	6	12	
Summerhill	937	na	0	na	0	0	0	0	
Temple Bar - Aston Quay	258	na	1	Hoops	2	2	44	83	Clongriffin BRT Stop - O'Connell Bridge
		na	1	Hoops	2	2			
		Fleet Street outside hard rock cafe	3	Sheffield Stand	3	6			
		Westmoreland street outside Bewleys	4	Sheffield Stand	4	8			
		Fleet Street outside TGI restaurant.	4	Sheffield Stand	4	8			
		Bedford row beside Ladbrokes	4	Sheffield Stand	4	8			
		Westmoreland street outside fexco	4	Sheffield Stand	4	4			
		Fleet Street across from thunder road cafe	8	Sheffield Stand	8	12			
College green median	13	Sheffield Stand	13	33					
Temple Bar - Essex Quay	1080	na	1	Hoops	2	2	43	81	Cultural Attraction - City Hall
		Parliament street outside subway	2	Sheffield Stand	2	6			
		Parliament Street across from florentina restaurant	3	Sheffield Stand	3	9			
		Essex street west outside the gaiety school of acting.	3	Sheffield Stand	3	6			
		Start of castle street	4	Railing	4	6			
		Essex street outside the porterhouse pub	4	Sheffield Stand	4	4			
		Essex street outside zaytoon	4	Sheffield Stand	4	6			
		Parliament street outside spar shop	5	Sheffield Stand	5	10			
		Parliament street outside paramount hotel	5	Sheffield Stand	5	10			
Open square beside Dublin City hall	11	Sheffield Stand	11	22					



Table 9 N: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Temple Bar - Wellington Quay	754	na	1	Hoops	2	2	78	151	Cultural Attraction - National Photographic Archive
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		na	1	Hoops	2	2			
		Essex street east outside the Clarence hotel	3	Sheffield Stand	3	7			
		Temple bar outside Rory's fishing shop.	4	Sheffield Stand	4	8			
		Eustace street outside the Italian corner restaurant	4	Sheffield Stand	4	8			
		Eustace street outside the orseman pub	4	Sheffield Stand	4	6			
		Aston quay outside house of colour	4	Sheffield Stand	4	8			
		Cecilia street outside luigi malones restaurant	4	Sheffield Stand	4	6			
		Essex street outside the shack restaurant.	5	Sheffield Stand	5	10			
		Dame street outside Nico's restaurant	5	Sheffield Stand	5	8			
		Bottom of George's street beside the mercantile	6	Sheffield Stand	6	30			
		Wellington quay	6	Sheffield Stand	6	12			
Cope street behind central bank	7	Sheffield Stand	7	14					
Essex street east outside costa cafe.	8	Sheffield Stand	8	12					
Cecilia street outside temple lane recording studios	8	Sheffield Stand	8	12					
Tenters	1356	na	0	na	0	0	0	0	
Tenters - Warrenmount Place	810	na	0	na	0	0	0	0	
Thomas Street	1581	Cornmarket street outside farrow and ball	3	Sheffield Stand	3	6	16	30	
		Thomas street outside Massey bros funeral home	4	Sheffield Stand	4	6			
		Thomas street outside st johns priory	9	Sheffield Stand	9	18			

Table 9 O: NTA Projected Population 2030 Less than 2000 within Defined NTA Zones & Current & Proposed Cycle Parking Capacity within Each Zone (NTA Population Projections & HB Survey of Existing On-Street Public Cycle Parking).

Zone Name	Population 2030	Cycle Stand Location	Number of Stands	Stand Type	Current Capacity	Proposed Capacity After Expansion	Current Capacity Total	Total Proposed Capacity After Expansion	Attractors in Zone
Trinity College - campus	184	na	0	na	0	0	0	0	Cultural Attraction - Trinity College Dublin & Book of Kells
Trinity College - city Quay	897	Marks lane	2	Sheffield Stand	2	16	2	16	
Trinity College - D'olier St	288	Burgh quay	2	Sheffield Stand	2	4	59	104	
		Burgh quay	4	Sheffield Stand	4	12			
		Hawkins street	4	Sheffield Stand	4	4			
		D'Oliver street	5	Sheffield Stand	5	11			
		D'Oliver street	6	Sheffield Stand	6	15			
		Hawkins street outside PCI college	8	Sheffield Stand	8	8			
		Burgh quay outside Jaffa deli Pearce street and Townsend street	10	Sheffield Stand	10	10			
		20	Sheffield Stand	20	40				
Trinity College - Fenian St	872	na	1	Hoops	2	2	23	68	DART - Pearse Train Station
		na	1	Hoops	2	2			
		Westland row	3	Sheffield Stand	3	12			
		Merrion street lower	4	Railing	4	16			
		Westmoreland street	4	Railing	4	12			
		Merrion street lower island Lincoln Place	4	Sheffield Stand	4	12			
		4	Sheffield Stand	4	12				
Trinity College - Tara St	640	Georges Quay	2	Sheffield Stand	2	6	13	43	DART - Tara Street Train Station
		Tara street	3	Sheffield Stand	3	9			
		Pearce street	4	Railing	4	12			
		Tara street	4	Sheffield Stand	4	16			

## **Appendix D – Cost Estimates**

## Drury Street Car Park Cycle Area: Order of Magnitude

<u>Item</u>	<u>Description</u>	<u>Estimated Qty</u>	<u>Unit</u>	<u>Estimated Rate</u>	<u>Estimated Total</u>
1	Clear internal of metal shelving / cages, existing bike stands and all other miscellaneous items	1	item	€49,280.00	€49,280.00
2	Form ramp and open as access into new proposed extended area	1	item	€29,760.00	€29,760.00
3	Repairs to all existing floors including epoxy paint finish and line marking throughout	680	m2	€55.00	€37,400.00
4	Repairs to existing walls including boxing out existing services, sand and cement plastering and paint finish	360	m2	€65.00	€23,400.00
5	Upgrade Lighting	1	item	€20,000.00	€20,000.00
6	CCTV	1	item	€30,000.00	€30,000.00
7	Appropriate ventilation	1	item	€10,000.00	€10,000.00
8	Toilets, shower rooms and ventilation to the same	1	item	€40,000.00	€40,000.00
9	Fire Certification Requirements	1	sum	€20,000.00	€20,000.00
10	Signs	1	sum	€15,000.00	€15,000.00
11	Bike Stands, supplied and fitted	200	nr	€220.00	€44,000.00
12	Cycle lockers supplied and fitted	8	nr	€550.00	€4,400.00
13	Fencing	1	sum	€5,000.00	€5,000.00

14	Access gate including electronic fob/keypad/leap card access	1	sum	€60,000.00	€60,000.00
15	Provisional / Contingency Sum	10	%		€38,824.00
16	Contractors Preliminaries, Overheads and Profit	15	%		€64,059.60
					€491,123.60
	VAT @ 13.5%				€66,301.69
					<b>€557,425.29</b>

Table F1: Drury Street Car Park Cycle Area: Detailed Cost Estimate

<b><u>New Build Internal Cycle Park, Brownfield Site City Centre</u></b>					
<b><u>Item</u></b>	<b><u>Description</u></b>	<b><u>Estimated Qty</u></b>	<b><u>Unit</u></b>	<b><u>Estimated Rate</u></b>	<b><u>Estimated Total</u></b>
1	Ref, Bruce Shaw Average Construction Costs, High Tech Industrial equivalent rate, "shell and core" average rate	400	m2	€1,075.00	€430,000.00
2	Allow fit out costs	400	m2	€350.00	€140,000.00
3	Allow for professional fees	1	sum		€71,250.00
					€641,250.00
	VAT @ 13.5%				€86,568.75
					<b>€727,818.75</b>

Table F2: Brownfield Internal Cycle Area: Detailed Cost Estimate

## Clery's Car Park Cycle Area: Order of Magnitude

<u>Item</u>	<u>Description</u>	<u>Estimated Qty</u>	<u>Unit</u>	<u>Estimated Rate</u>	<u>Estimated Total</u>
1	Clear internal of miscellaneous items	1	item	€3,520.00	€3,520.00
2	Repairs to all existing floors including epoxy paint finish and line marking throughout	100	m2	€55.00	€5,500.00
3	Railings and Gates	42	m	€225.00	€9,450.00
4	Upgrade Lighting	1	item	€2,000.00	€2,000.00
5	CCTV	1	item	€800.00	€800.00
6	Appropriate ventilation	1	item	€500.00	€500.00
7	Fire Certification Requirements	1	sum	€900.00	€900.00
8	Signs	1	sum	€500.00	€500.00
9	Bike Stands, supplied and fitted	26	nr	€220.00	€5,720.00
10	Provisional / Contingency Sum	10	%		€2,889.00
11	Contractors Preliminaries, Overheads and Profit	25	%		€7,944.75
					€39,723.75
					€5,362.71
					<b>€45,086.46</b>

VAT @ 13.5%

Table F3: Clery's Car Park Cycle Area: Detailed Cost Estimate

## Bruce Shaw Average Irish Construction Costs 2014

The average construction costs table is generated using Bruce Shaw's Cost Database and sets out typical building construction costs. Our database is the largest construction cost database in Ireland.

Average Costs	Cost Range		Including M & E Range	
<b>Commercial Offices</b>				
Suburban Naturally Ventilated				
Shell & Core	€1,150	€1,550	per sq.m.	10-15%
Developer Standard	€1,250	€1,650	per sq.m.	15-20%
Extra for Air Conditioning	€165	€350	per sq.m.	-
City Centre Air Conditioned				
Shell & Core	€1,550	€2,200	per sq.m.	15-20%
Developer Standard	€1,700	€2,400	per sq.m.	20-25%
<b>Office Fit Out</b>				
95% Open Plan, No Catering	€450	€650	per sq.m.	20-30%
75% Open Plan, Limited Catering	€650	€850	per sq.m.	20-30%
60% Open Plan, Full Catering	€850	€1,250	per sq.m.	25-35%
Corporate HQ	€1,300	€1,650	per sq.m.	25-35%
Open Plan Work Station	€1,000	€2,800	each	-
<b>High Tech Industrial</b>				
Shell & Core	€850	€1,300	per sq.m.	20-25%
Developer Standard	€750	€1,300	per sq.m.	25-45%

Table F4: Irish Construction Costs