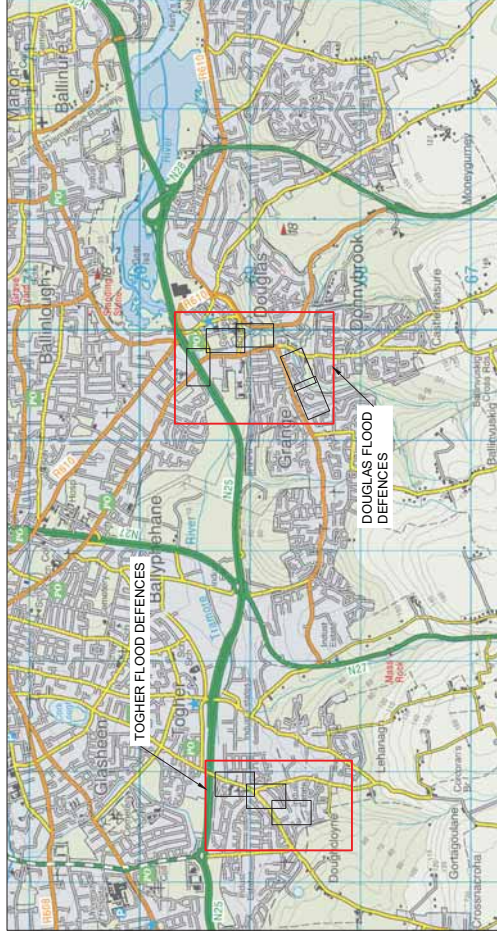


Cork County Council

Douglas Flood Relief Scheme (including Togher Culvert)

Proposed Scheme Drawings

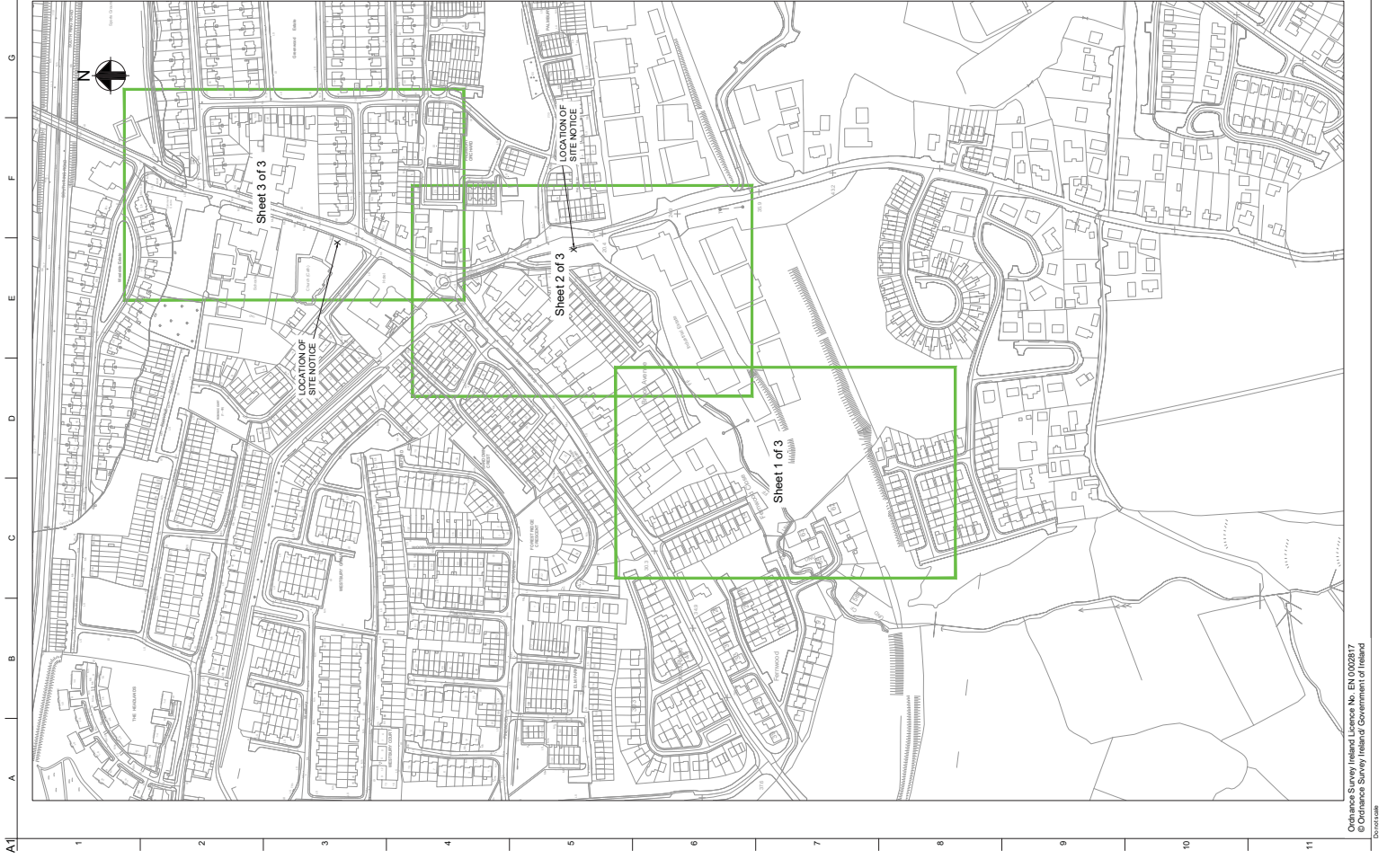
Drawing Number	Drawing Name
C-000-001	Cover Sheet
C-000-002	Index Sheet
C-000-003	Key Plan
C-000-004	Existing Flood Extents and Proposed Flood Benefit Area (Sheet 1 of 3)
C-000-005	Existing Flood Extents and Proposed Flood Benefit Area (Sheet 2 of 3)
C-000-006	Existing Flood Extents and Proposed Flood Benefit Area (Sheet 3 of 3)
C-000-007	Proposed Togher Flood Defences - (Sheet 1 of 3)
C-000-008	Proposed Togher Flood Defences - (Sheet 2 of 3)
C-000-009	Proposed Togher Flood Defences - (Sheet 3 of 3)
C-000-010	Proposed Douglas Flood Defences - (Sheet 1 of 5)
C-000-011	Proposed Douglas Flood Defences - (Sheet 2 of 5)
C-000-012	Proposed Douglas Flood Defences - (Sheet 3 of 5)
C-000-013	Proposed Douglas Flood Defences - (Sheet 4 of 5)
C-000-014	Proposed Douglas Flood Defences - (Sheet 5 of 5)
C-000-015	Proposed Flood Defences - Sections (Sheet 1 of 3)
C-000-016	Proposed Flood Defences - Sections (Sheet 2 of 3)
C-000-017	Proposed Flood Defences - Sections (Sheet 3 of 3)
C-000-018	Proposed Flood Defences - Togher Details Sheet 1 of 2
C-000-019	Proposed Flood Defences - Togher Details Sheet 2 of 2
C-000-020	Proposed Tree Replanting - Togher Sheet 1 of 2
C-000-021	Proposed Tree Replanting - Togher Sheet 2 of 2
C-000-022	Proposed Tree Replanting - Douglas Sheet 1 of 2
C-000-023	Proposed Tree Replanting - Douglas Sheet 1 of 2



Location Plan

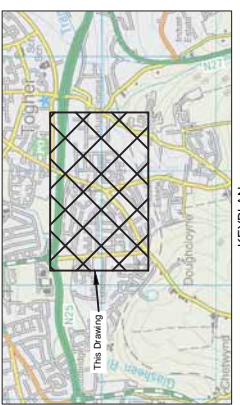
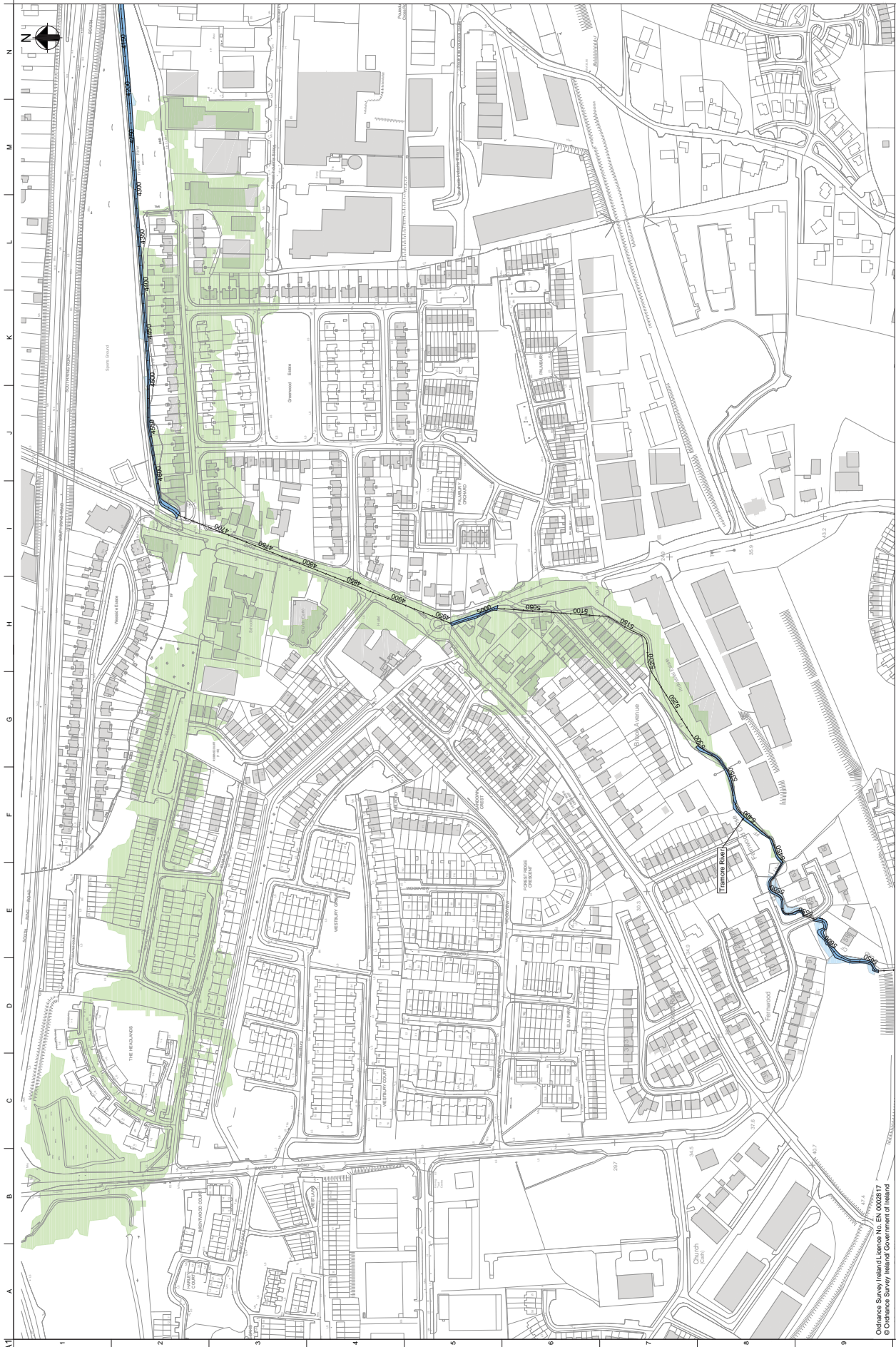
ARUP
 One Ainslie & Grenville Buildings,
 100, Grand Canal,
 Dublin,
 Ireland.
 Tel: +353 (0)1 4222200
 Fax: +353 (0)1 4772345

OPW
 O. B. Regan's Green,
 100, Grand Canal,
 Dublin,
 Ireland.
 Tel: +353 (0) 1 427 0661
 Fax: +353 (0) 1 470 0271



Notes

1. The 1 in 100 year fluvial flood extents shown on this map have been reproduced from the Leam Management Study current scenario maps (Ref: MBUMEXTCURS001 & 002).



- Legend**
- Benefiting Lands (Defended Against Flood Events up to 1 in 100 Year Fluvial Event)
 - 1% AEP Fluvial Flood Extent (1 in 100yr Fluvial)
 - Watercourse
 - Channel Centreline and Chainage

Rev	Date	By	Checked	App'd
PL1	11.05.17	SB	DT	KL



ARUP

One Albert Quay
 The Arcade, Dublin 2
 Tel: +353 (0)1 478 7676 Fax: +353 (0)1 478 2246
 www.arup.com

Client
 Cork County Council

Project Title
 Douglas Flood Relief Scheme
 (Including Toghther Culvert)

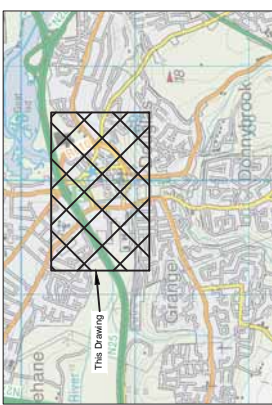
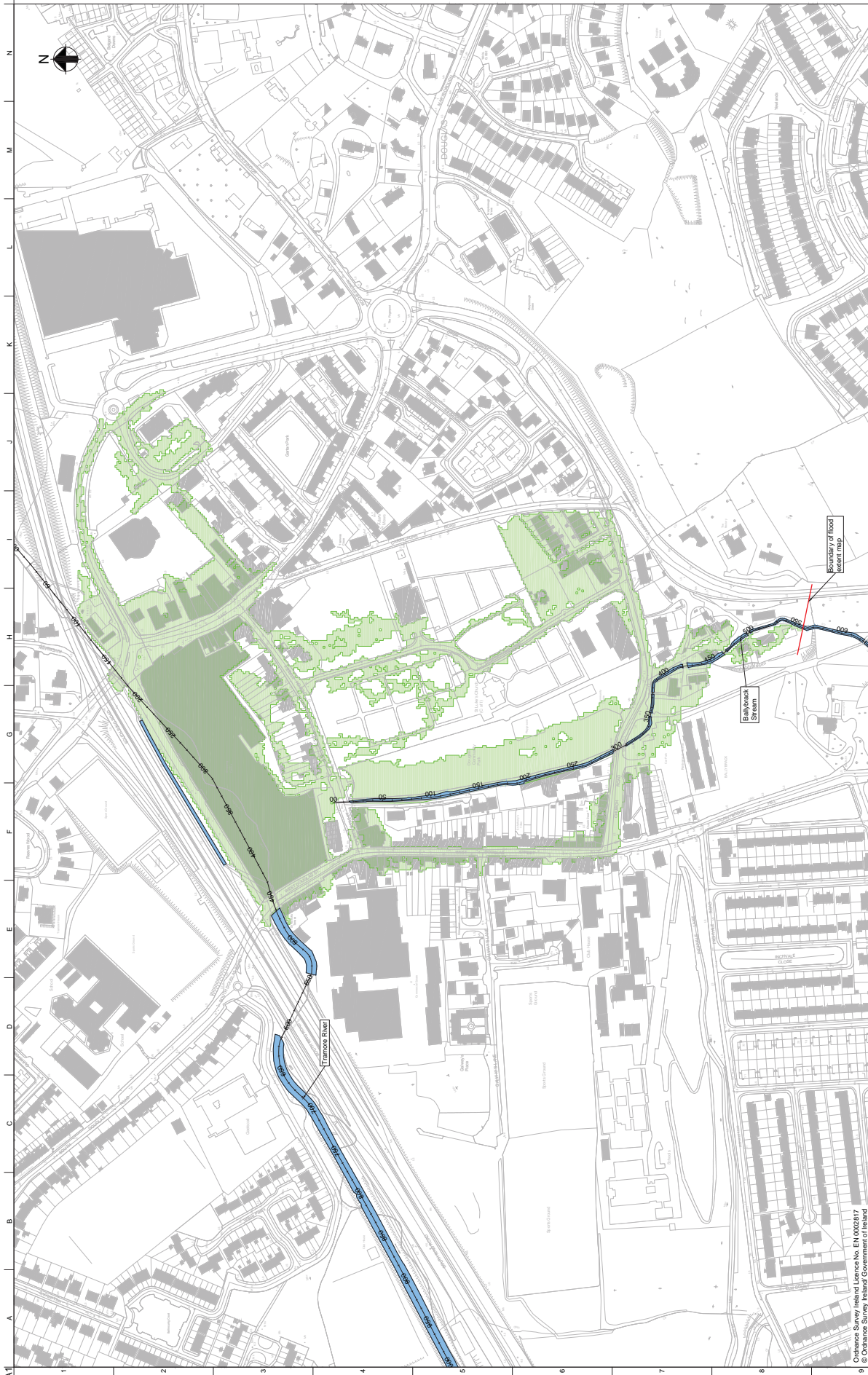
Drawing Title

Existing Flood Extents and
 Proposed Flood Benefit Area
 Sheet 1 of 3

Scale: A1 1:2000 Sheet A3 1:4000

Discipline
 Civil Planning

Drawn By
 234335-00
 Checked By
 C-000-004



- Legend**
- Benefiting Lands (Defended Against Flood Events up to 1 in 100 Year Fluvial Event)
 - 1% AEP Fluvial Flood Extent (1 in 100yr Fluvial)
 - Watercourse
 - Channel Centreline and Chainage

Project Title
**Douglas Flood Relief Scheme
(Including Toghier Culvert)**

Client
Cork County Council

Drawing Title
**Existing Flood Extents and
Proposed Flood Benefit Area
Sheet 2 of 3**

Scale: A1: 1:2000 Size: A3: 1:4000

Rev: Cx/ll Planning

Drawn by: **234335-00**

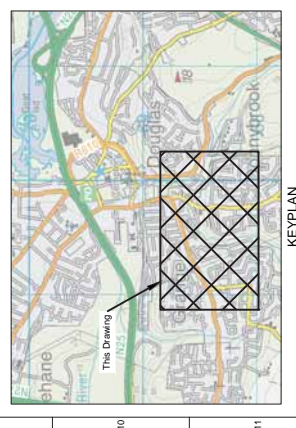
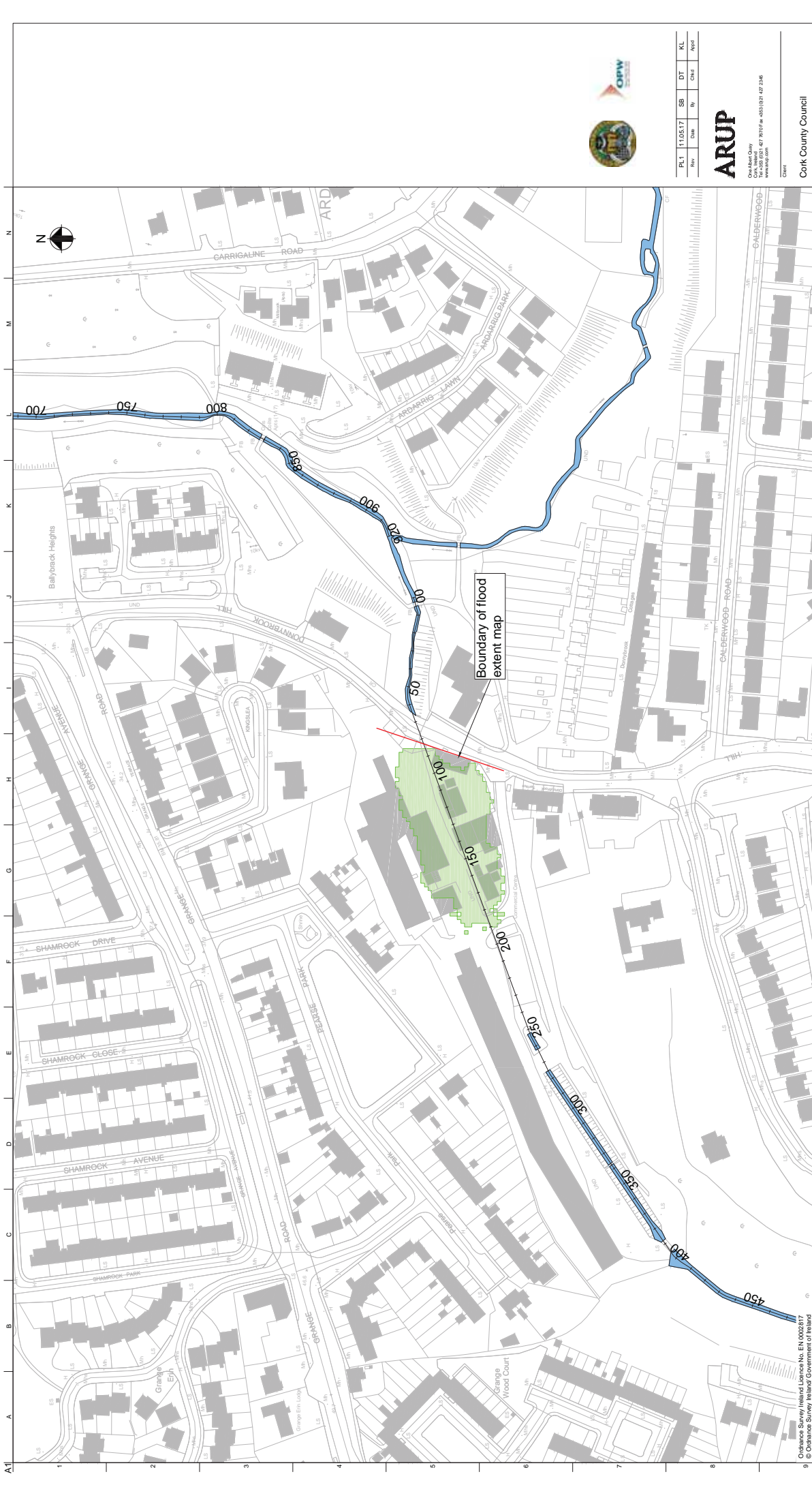
Checked by: **PL1**

Project No: **C-000-005**

Rev	Date	By	Chkd	Apprd
PL1	11.05.17	SB	DT	KL

ARUP
One Albert Quay
The Waterfront
Dublin 8, Ireland
Tel: +353 (0)1 477 8767 Fax: +353 (0)1 477 2346
www.arup.com





- Legend**
- Benefiting Lands (Defended Against Flood Events up to 1 in 100 Year Fluvial Event)
 - 1% AEP Fluvial Flood Extent (1 in 100yr Fluvial)
 - Watercourse
 - Channel Centrelines and Chainage

Project Title
**Douglas Flood Relief Scheme
(Including Trough Culvert)**

Client
Cork County Council

Drawing Title
**Existing Flood Extents and
Proposed Flood Benefit Area
Sheet 3 of 3**

Scale: A1 1:1000 Site A3 1:2000

Author: Civil
Checked: Planning

Drawn: PL1

Project No: **234335-00**
Drawing No: **C-000-006**

Rev. Date By Chkd Apprd

PL1	11.05.17	SB	By	DT	KL
				Chkd	Apprd

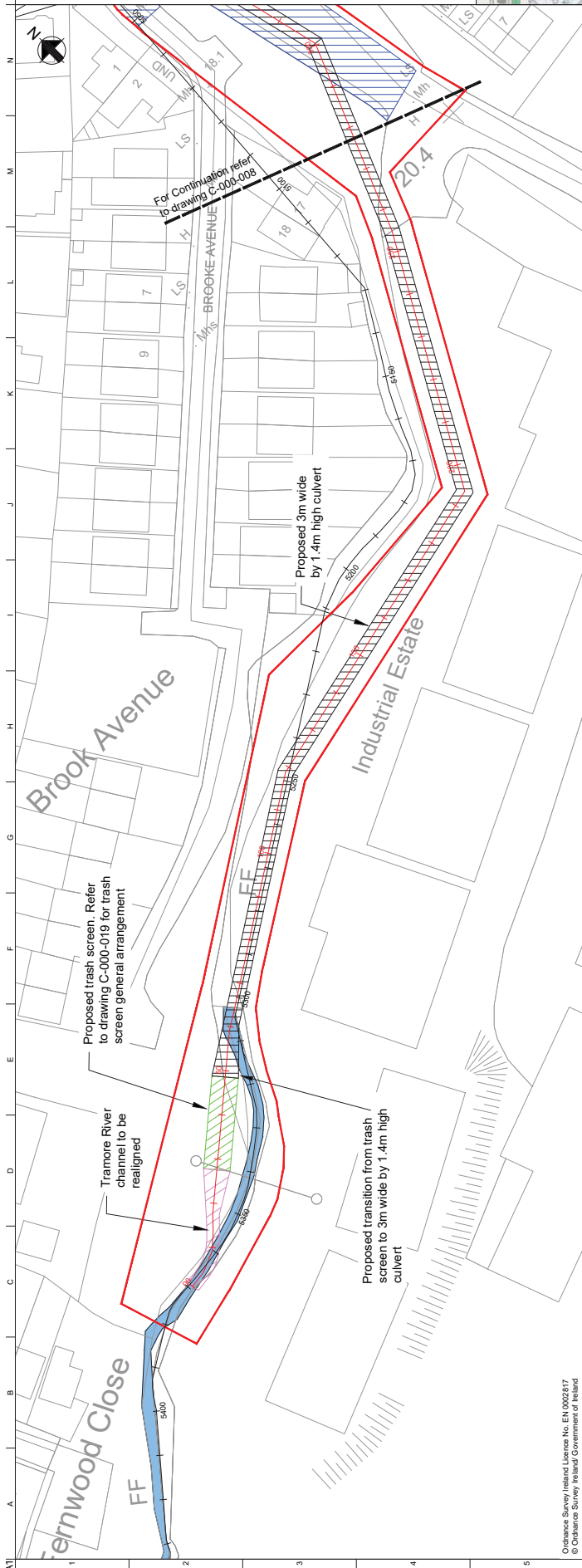
ARUP
One Albert Quay
Dublin 4, Ireland
Tel: +353 (0)1 477 8767 Fax: +353 (0)1 477 2346
www.arup.com



A1 1 2 3 4 5 6 7 8 9 10 11

A B C D E F G H I J K M N

0.0000



Ordnance Survey Ireland License No. EH 0002817
 © Ordnance Survey Ireland Government of Ireland

- Legend**
- Proposed Regrading
 - Proposed Culvert
 - Proposed Works Area
 - Watercourse
 - Location and Reference of Cross Section
 - Proposed Channel Realignment
 - Proposed Trash Screen
 - Proposed Culvert Chainage
 - 150
 - 150
 - 150

Notes:

1. All levels are in Metres Ordnance Datum Mean Head (MOD) unless otherwise noted.



Rev.	Date	By	Checked	App'd	KL
PL1	11.05.17	SB	DT		

ARUP
 One Albert Quay
 The Liberties, Dublin 1
 Tel: +353 (0)1 427 8177 Fax: +353 (0)1 427 2345
 www.arup.com

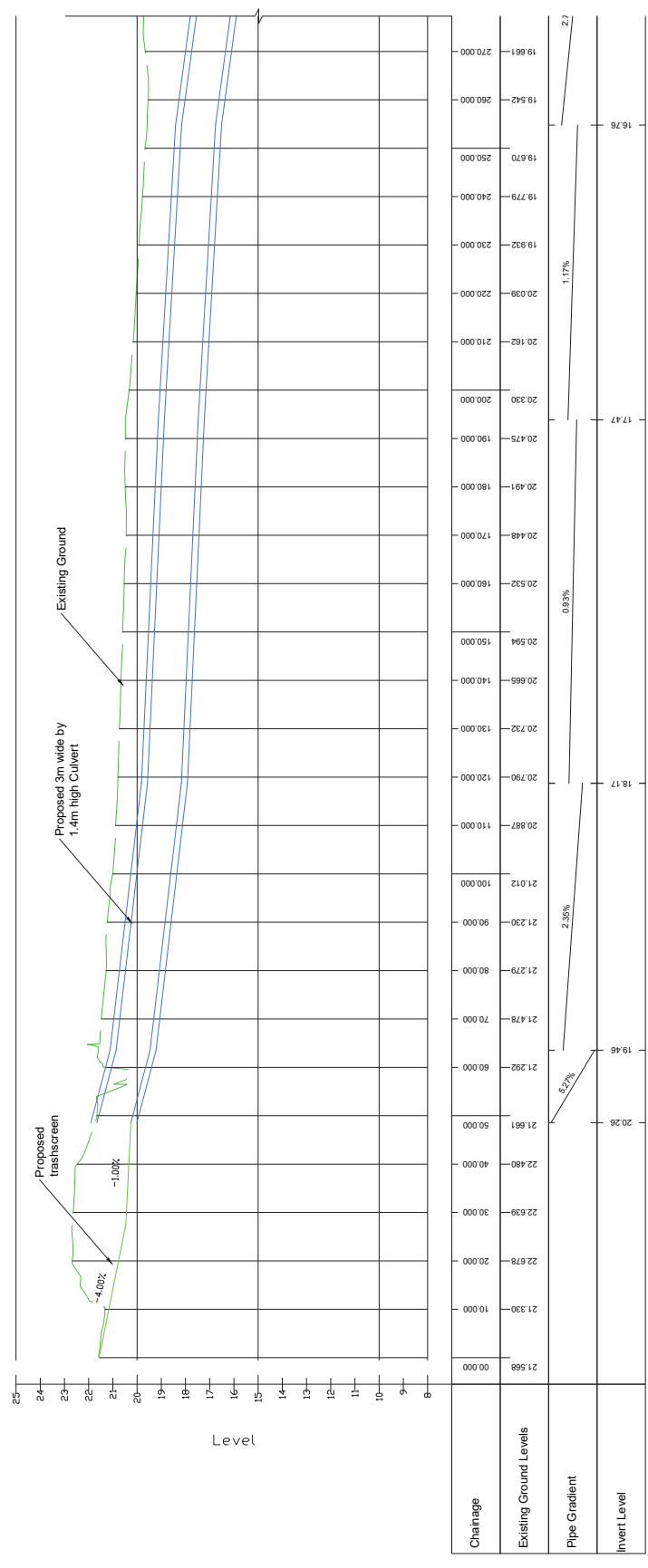
Client
 Cork County Council

Project Title
**Douglas Flood Relief Scheme
 (Including Toghther Culvert)**

Drawing Title
**Proposed Toghther Flood Defences
 (Sheet 1 of 3)**








Scale: A1 1:500 Scale: A3 1:1000
 Date: Civil
 Status: Planning

Drawn By: PL1
 Checked By: PL1
 Project No: C-000-007

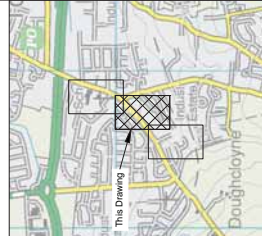


Chainage	Existing Ground Levels	Pipe Gradient	Invert Level
21568	21330	8.2%	2026
21661	21292	2.35%	1946
21687	21279	1.17%	1817
21729	21279	0.89%	1747
21779	21279	1.17%	1676
21929	21279		
22039	21279		
22162	21279		
22330	21279		
22448	21279		
22522	21279		
22594	21279		
22665	21279		
22732	21279		
22790	21279		
22887	21279		
22912	21279		
23000	21279		
23092	21279		
23162	21279		
23300	21279		
23422	21279		
23542	21279		
23611	21279		
23681	21279		
23700	21279		

Legend

-  Proposed Regrading
-  Proposed Culvert
-  Proposed Works Area
-  Watercourse
-  Location and Reference of Cross Section
-  Proposed Culvert Chaining
-  Tramore River Chaining

Notes:
 1. All levels are in Metres Ordnance Datum Mean Head (MOD) unless otherwise noted.



Rev	Date	By	Chkd	Appd	KL
PL1	11.05.17	SB	DT	CHD	ARUP

ARUP
 One Albert Quay
 The Liberties
 Dublin 8, Ireland
 Tel: +353 (0)1 478 7611
 Fax: +353 (0)1 478 7612
 www.arup.com

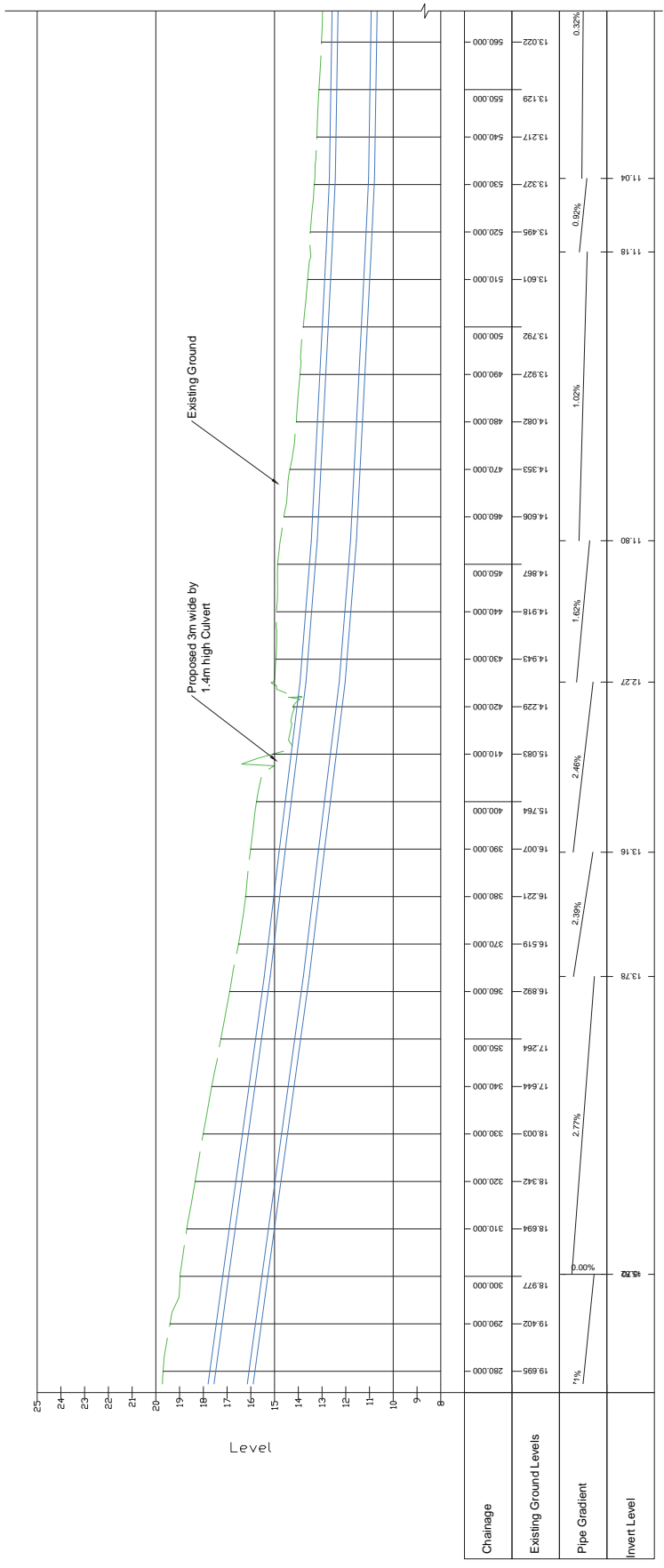
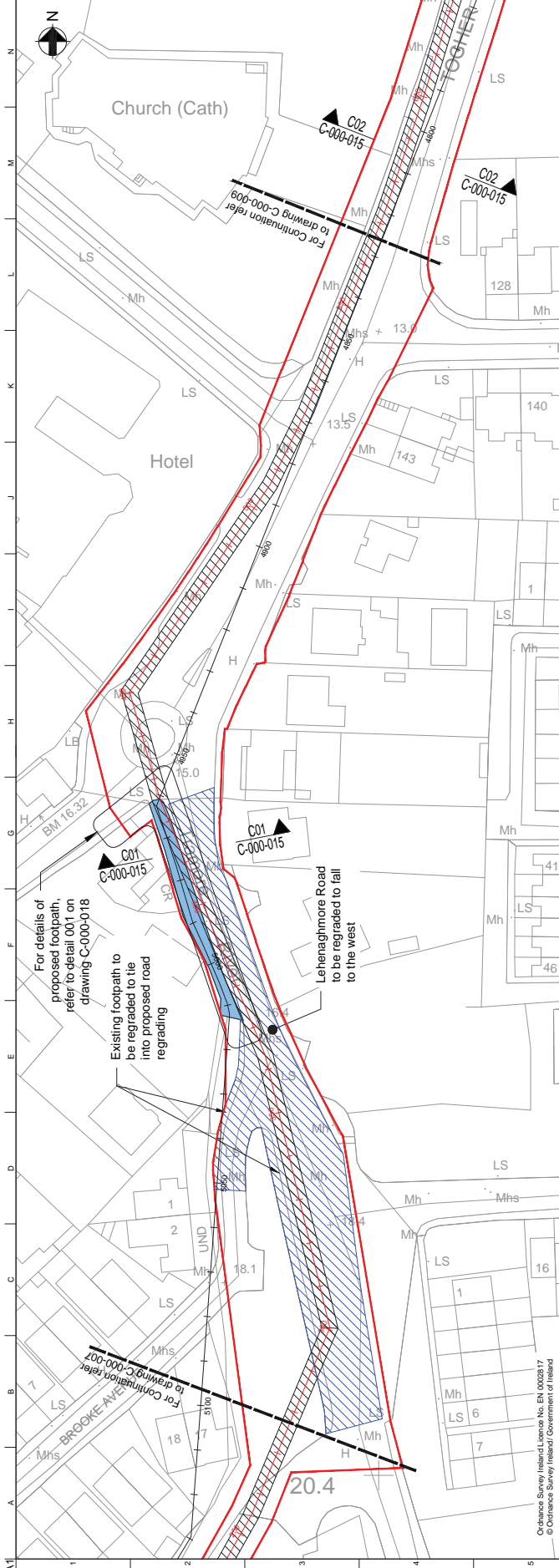
Cork County Council

Project Title
**Douglas Flood Relief Scheme
 (Including Togher Culvert)**

Drawing Title
**Proposed Togher Flood Defences
 (Sheet 2 of 5)**

Scale: A1: 1:500
 Scale: A3: 1:1,000

Author: Planning
 Title: PL1
 No: **234-335-00**
 Rev: **C-000-008**

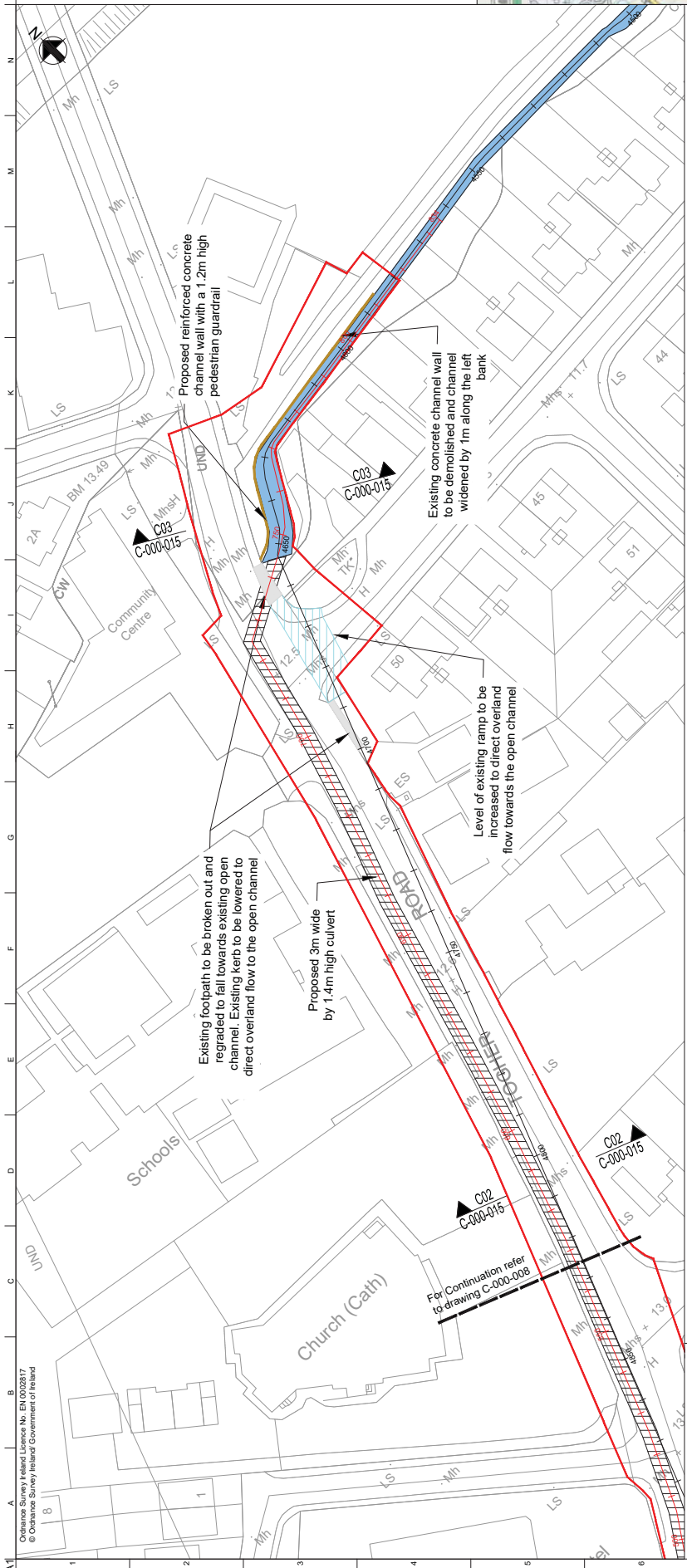


Legend

- Proposed Culvert
- Proposed Concrete Channel Wall and Pedestrian Guardrail
- Proposed Works Area
- Watercourse
- Location and Reference of Cross Section
- Proposed Culvert
- Chaining
- Tramore River Chaining

Notes:

1. All levels are in Metres Ordnance Datum Mean Head (mOD) unless otherwise noted.



OPW

ARUP

One Albert Quay
 The Waterfront
 Dublin 8, Ireland
 Tel: +353 (0)1 407 8100 Fax: +353 (0)1 407 2246
 www.arup.com

Client: Cork County Council

Project Title: Douglas Flood Relief Scheme (Including Together Culvert)

Project No: 234-335-00

Sheet: 1 of 3

Scale: 1:1,000

Author: Civil

Checked: Planning

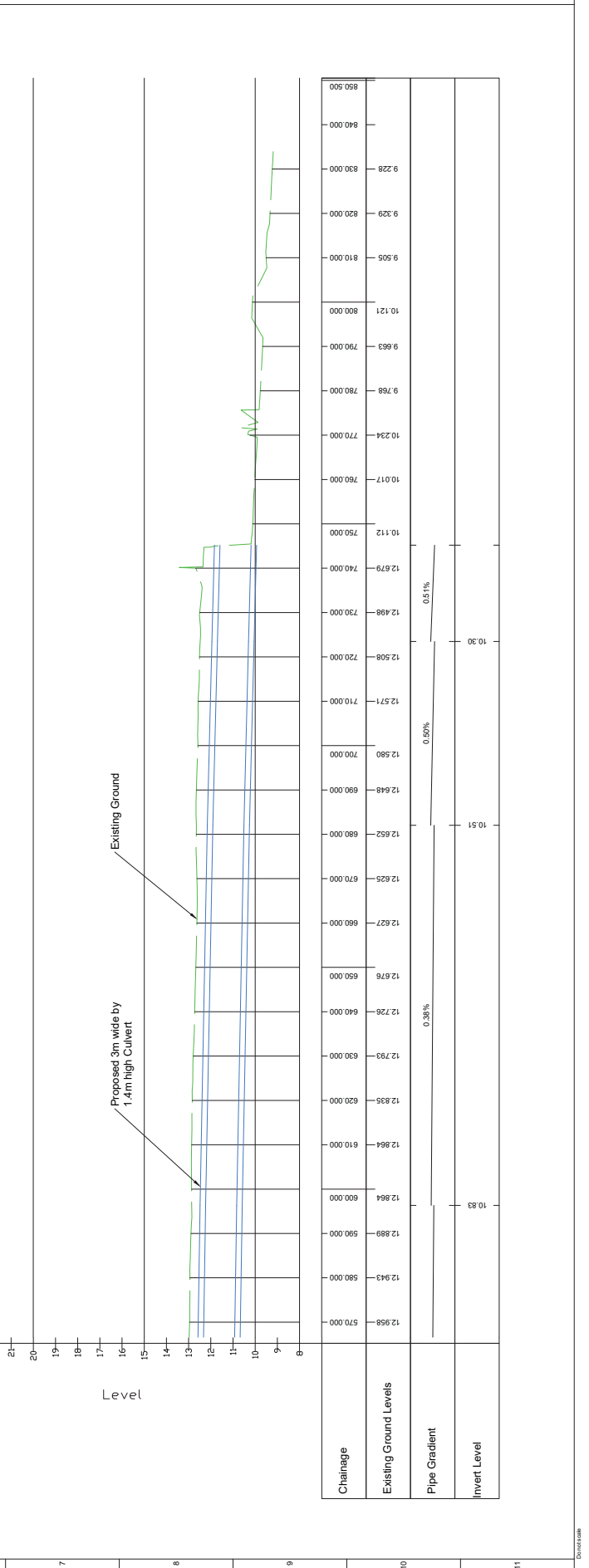
Date: 11/05/17

Rev: 1

DT: DT

KL: KL

ARUP



Notes:

1. All levels are in Metric Ordnance Datum Mean Head (mOD) unless otherwise noted.



Rev	Date	By	Checked	App'd
PL1	11.05.17	SB	DT	KL

ARUP

One Albert Quay
 The North Wall
 Dublin 1
 Tel: +353 (0)1 477 8177 Fax: +353 (0)1 477 2246
 www.arup.com

Client
 Cork County Council

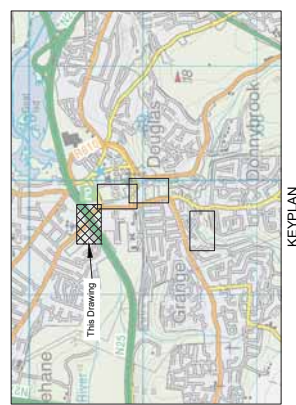
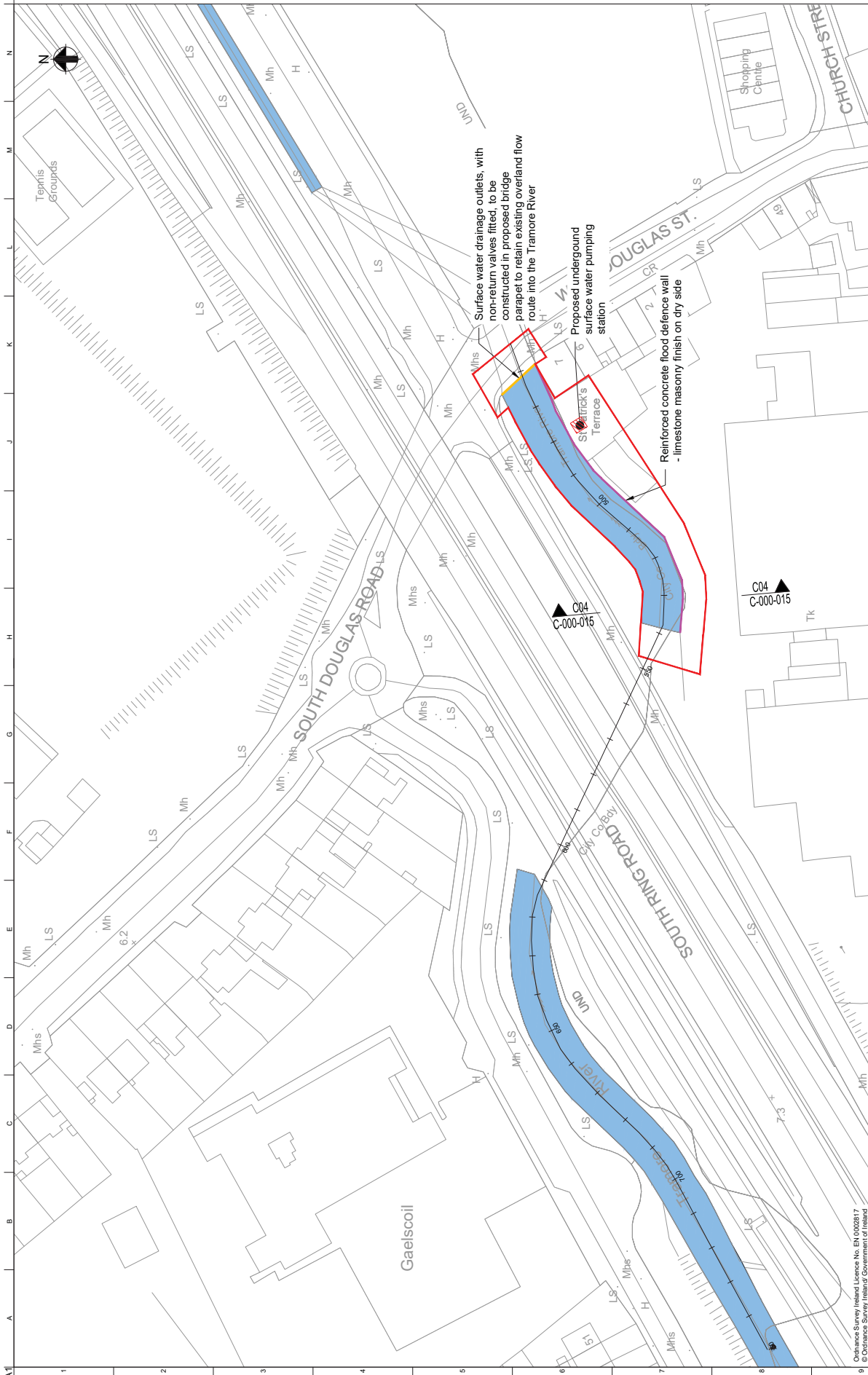
Project Title
 Douglas Flood Relief Scheme
 (Including Toghier Culvert)

Drawing Title
 Proposed Douglas Flood Defences
 (Sheet 1 of 5)

Scale: A1 1:500 Scale: A3 1:1000

Discipline
 Civil Planning

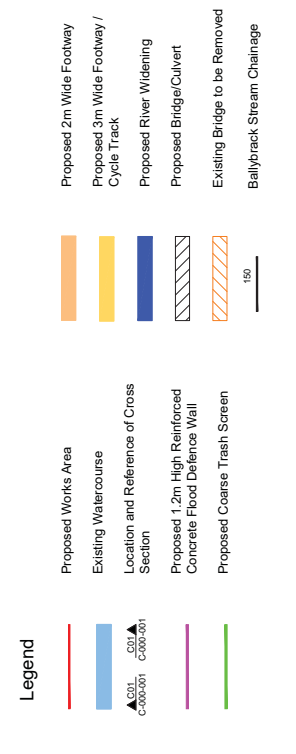
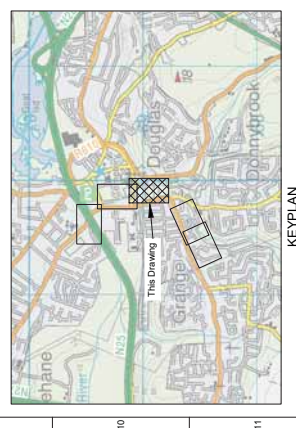
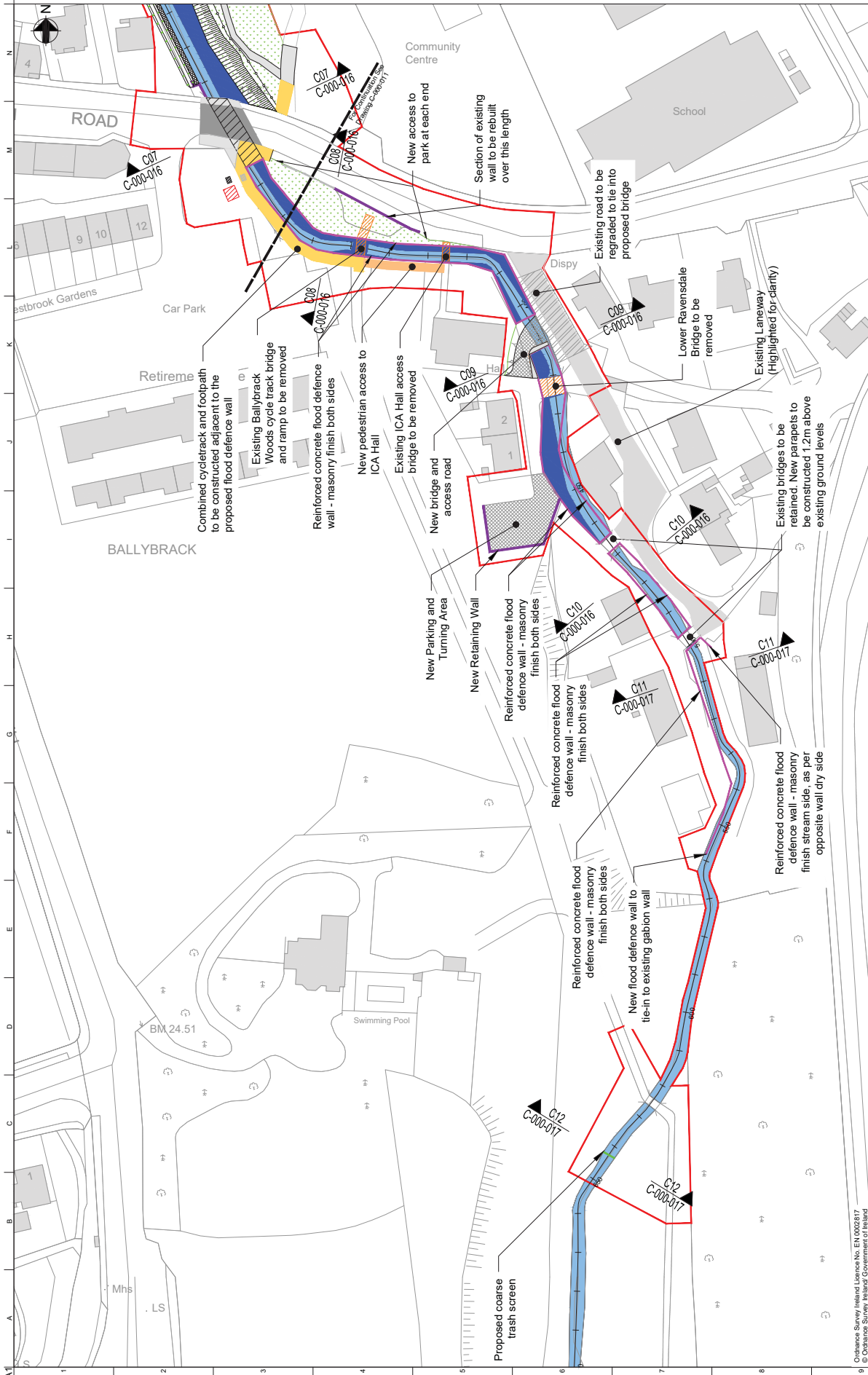
Drawn By
 234.335-00
 Checked By
 PL1
 Project No.
 C-000-010



- Legend**
- Proposed Works Area
 - Existing Watercourse
 - ▲ C04 C-000-015 Location and Reference of Cross Section
 - Proposed 1.2m High Reinforced Concrete Flood Defence Wall
 - Proposed 1.2m High Reinforced Concrete Bridge Parapet
 - 150 Tramore River Chainage

Ordnance Survey Ireland Licence No. EI4.002817
 © Ordnance Survey Ireland / Government of Ireland

Notes:
 1. All levels are in Metres Ordnance Datum Mean Head (mOD) unless otherwise noted.



Project Title
Douglas Flood Relief Scheme (Including Toghur Culvert)

Drawing Title
Proposed Douglas Flood Defences (Sheet 3 of 5)

Scale: A1 1:500 Size: A3 1:1000

Rev: 001 Status: Planning

Client
Cork County Council

Drawn By: **234335-00**

Checked By: **PL1**

Project No: **C-000-012**

ARUP
 One Albert Quay
 The Waterfront, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Legend

- Channel Regrading
- Proposed Culvert
- Proposed Works Area
- Watercourse
- Proposed Coarse Screen
- Location and Reference of Cross Section
- Culvert Chaining
- Grange Stream Chaining

OSYA
C0000003

1:50
1:50

Notes:

1. All levels are in Metres Ordnance Datum Mean Head (MOD) unless otherwise noted.



Rev	Date	By	CHK	Appd	KL
PL1	11.05.17	SB	DT	CHD	APD

ARUP

One Albert Quay
Dublin 2, Ireland
Tel: +353 (0)1 477 8177 #1-800-331-427-2346
www.arup.com

Client
Cork County Council

Project Title
**Douglas Flood Relief Scheme
(Including Toghur Culvert)**

Drawing Title
**Proposed Douglas Flood Defences
(Sheet 5 of 5)**

Scale: A1: 1:500
Scale: A3: 1:1,000

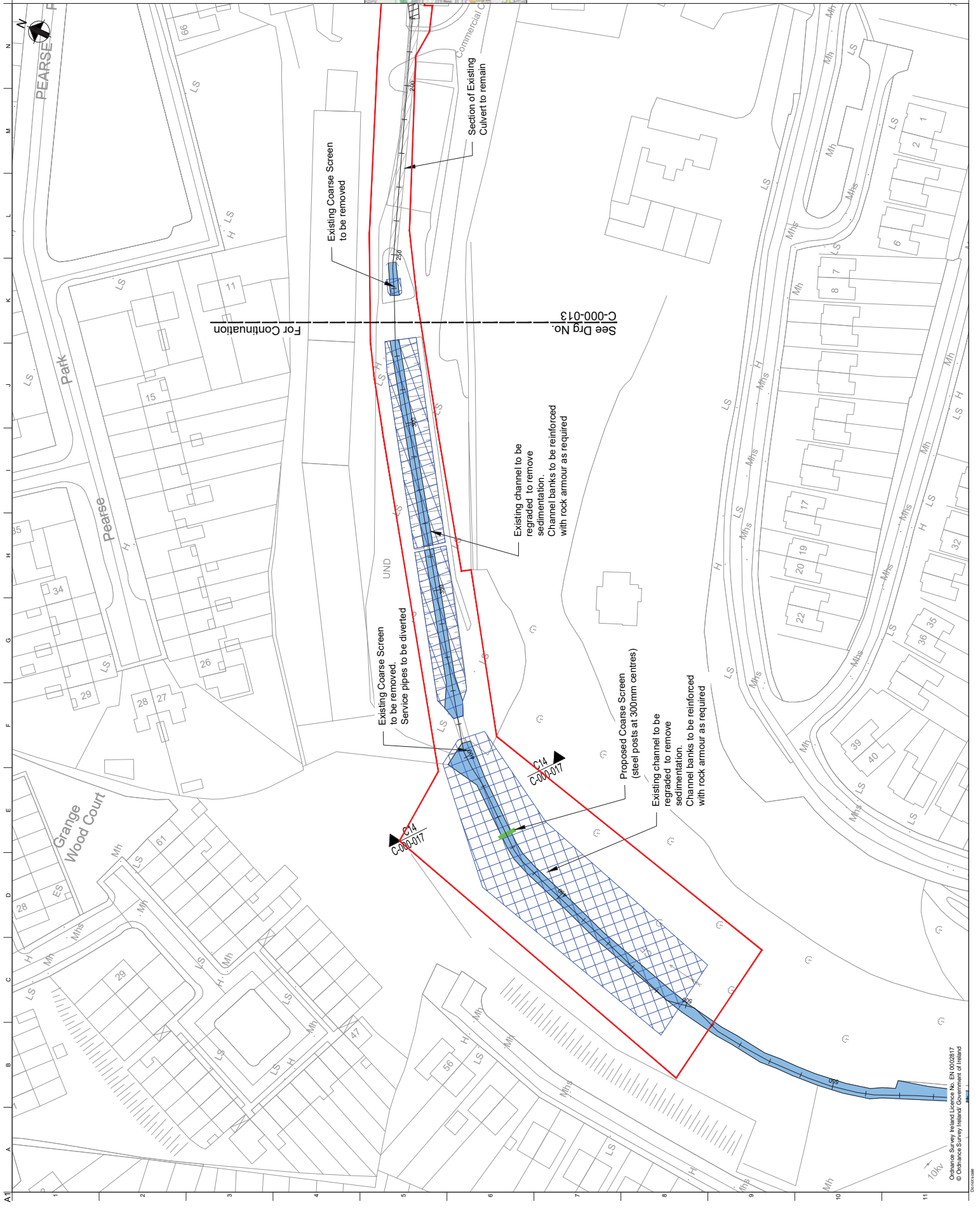
Rev: Civil

Author: Planning

Project No: **234-335-00**

Rev: **PL1**

Code: **C-000-014**



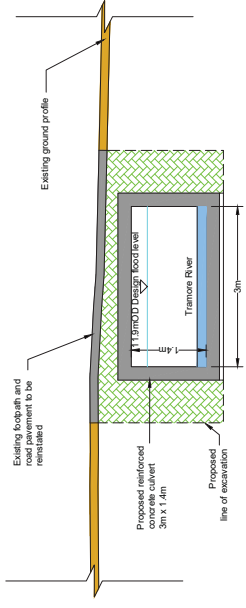
For Continuation
See Drg No. C-000-013

Notes:

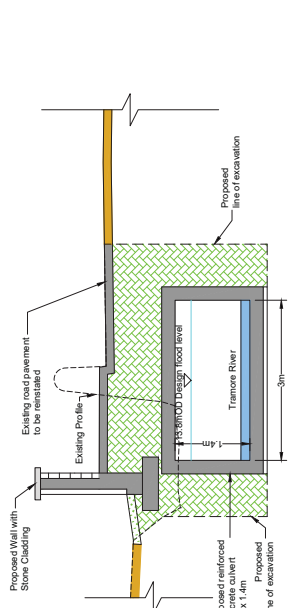
1. All levels are in Metres Ordnance Datum Mean Head (mOD) unless otherwise noted.

A | B | C | D | E | F | G | H | I | J | K | L | M | N

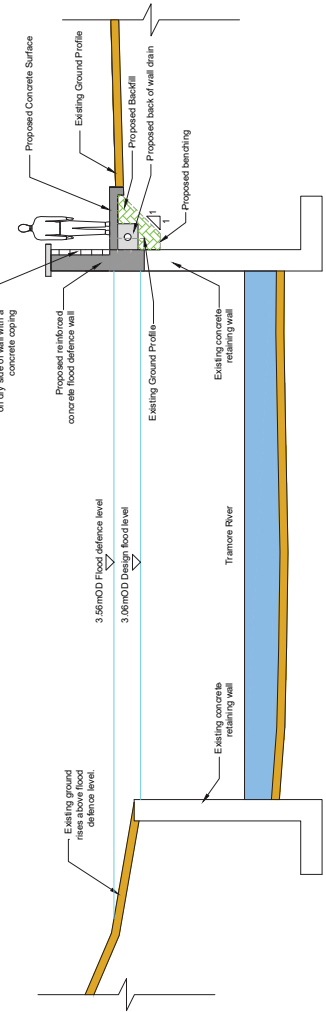
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11



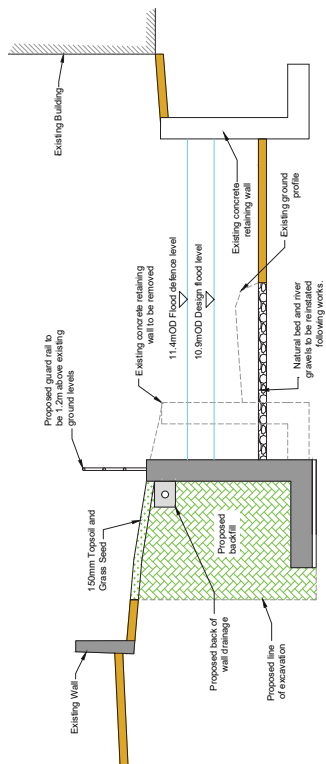
C02 Cross Section (Togher Road)
Scale 1:50



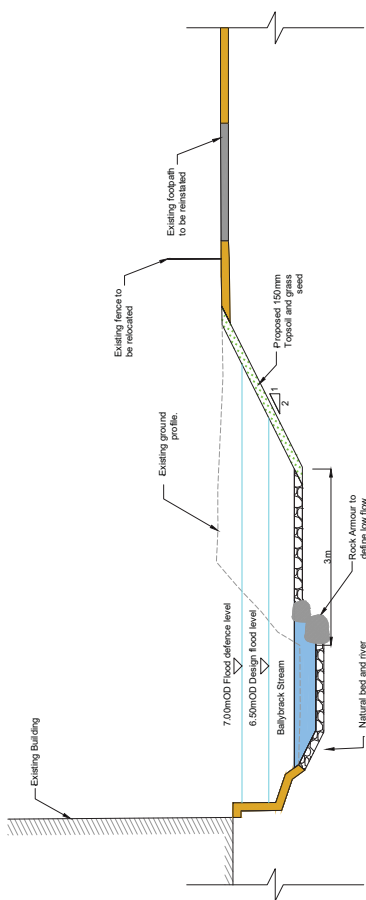
C01 Cross Section (Lehenaghmore Road)
Scale 1:50



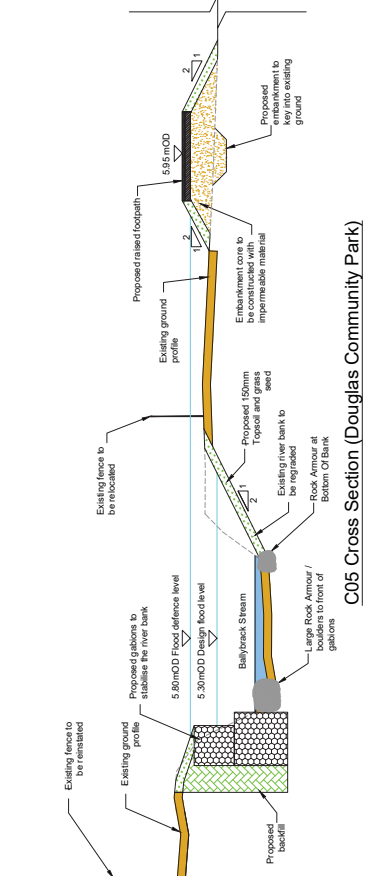
C04 Cross Section (Douglas Mills)
Scale 1:50



C03 Cross Section (Griffin Pianos)
Scale 1:50



C06 Cross Section (Douglas Community Park)
Scale 1:50



C05 Cross Section (Douglas Community Park)
Scale 1:50



Rev	Date	By	CHK	App'd	KL
PL1	11.05.17	PS	DT	CHD	APD

ARUP

One Albert Quay
The Waterfront
Dublin 8, D04 N716
www.arup.com

Client: **Cork County Council**

Project Title: **Douglas Flood Relief Scheme (including Togher Culvert)**

Drawing Title: **Proposed Flood Defences Sections Sheet 1 of 3**

Scale: A1 1:50, A2 1:100, A3 1:200, A4 1:500, A5 1:1000

Discipline: **Civil**

Sub-discipline: **Planning**

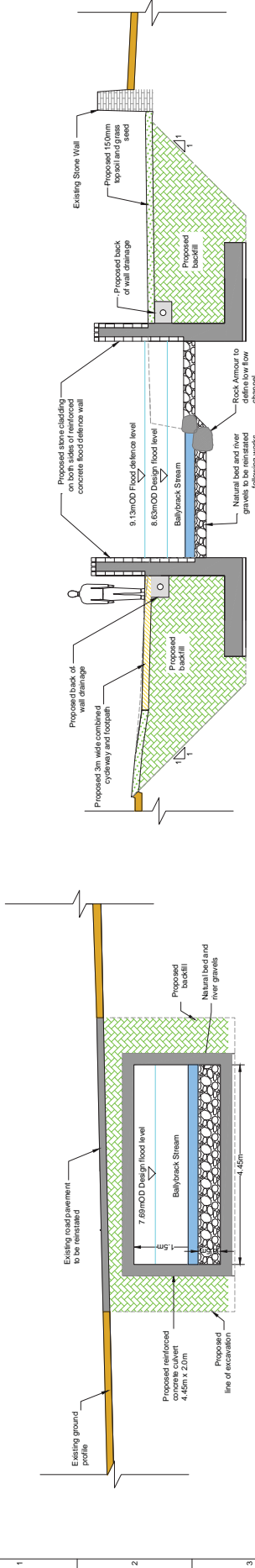
Drawn by: **234335-00**

Rev: **PL1**

Code: **C-000-015**

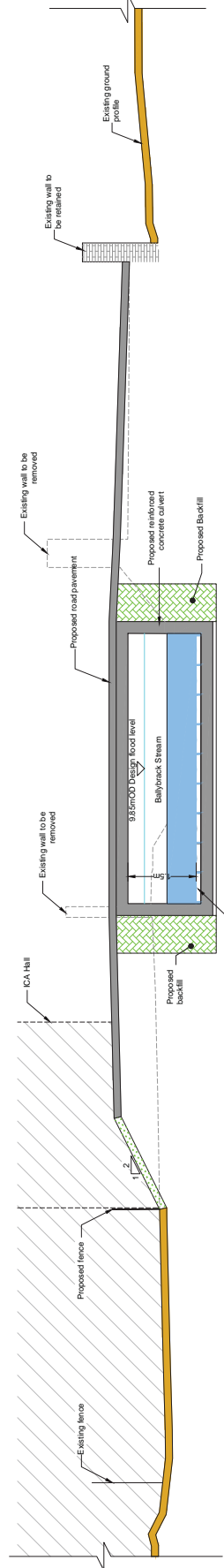
Notes:

1. All levels are in Metres Ordnance Datum Main Head (mOD) unless otherwise noted.

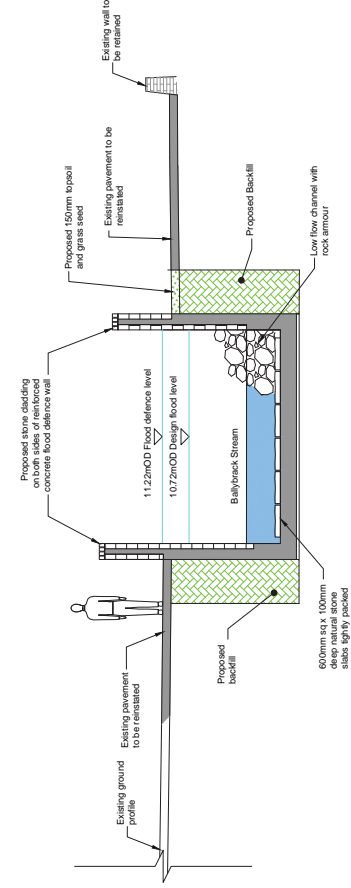


C07 Cross Section (Church Road)
Scale 1:50

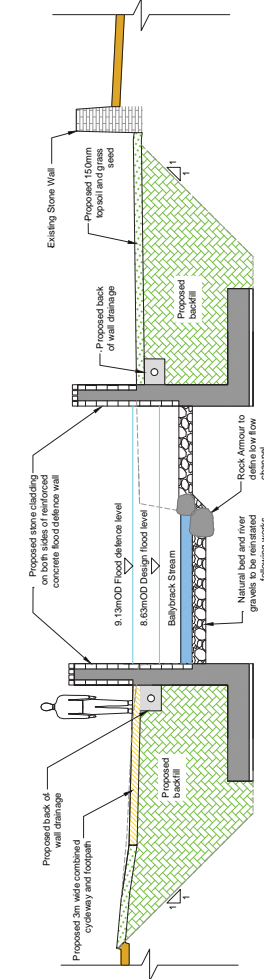
C8 Cross Section (Ravensdale)
Scale 1:50



C9 Cross Section (Lower Ravensdale Bridge)
Scale 1:50



C10 Cross Section (Ravensdale)
Scale 1:50



Rev	Date	By	Chk	Appd	KL
PL1	11/05/17	SB	DT	Chd	Apnd

ARUP
One Albert Quay
The North Wall
Dublin 1
www.arup.com

Client: **Cork County Council**

Project Title: **Douglas Flood Relief Scheme (Including Trough Culvert)**

Sheet No: **1:50** Scale: **A3 1:100**
Discipline: **Civil**
Sub-discipline: **Planning**

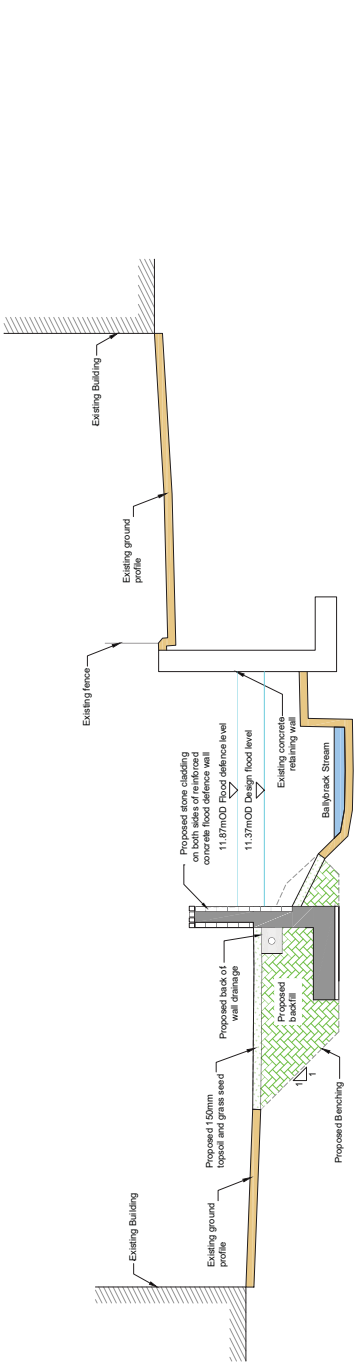
Drawn: **23/03/16**
Checked: **PL1**
Project No: **C-000-016**

Proposed Flood Defences Sections
Sheet 2 of 3

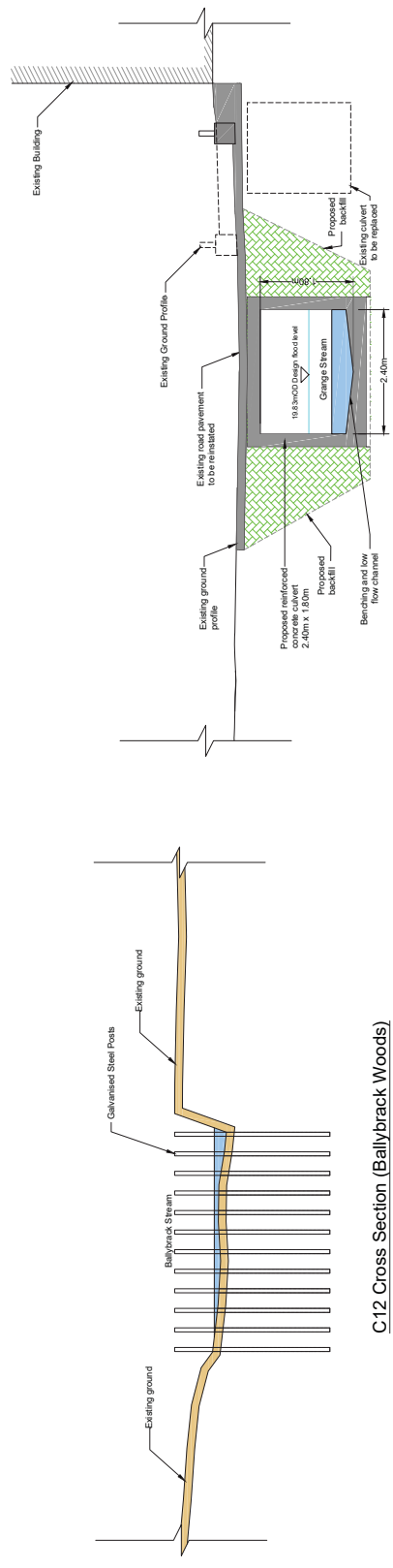
Notes:

1. All levels are in Metres Ordnance Datum Mean Head (mOD) unless otherwise noted.

A | B | C | D | E | F | G | H | J | K | L | M | N

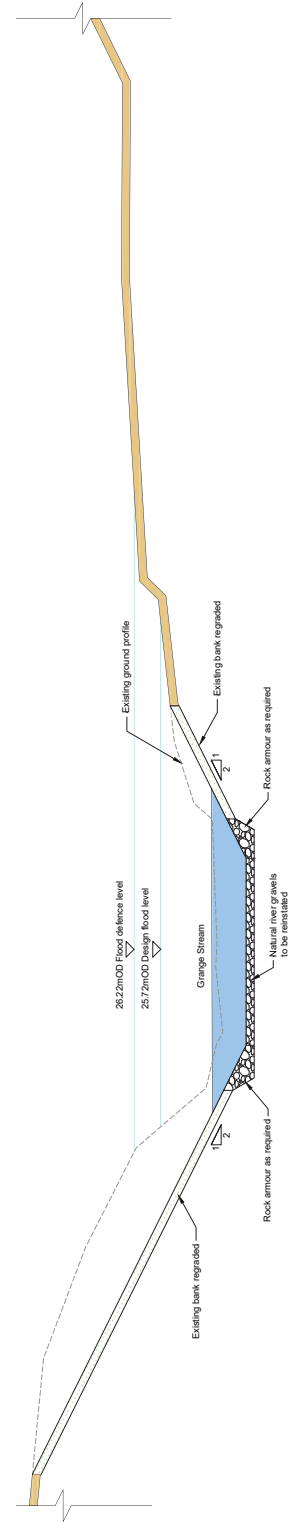


C-11 Cross Section (Ravensdate)
Scale 1:50



C-12 Cross Section (Ballybrook Woods)
Scale 1:50

C-13 Cross Section (Grange Stream Culvert)
Scale 1:50



C-14 Cross Section (Donnybrook CC)
Scale 1:50



Rev	Date	By	CHK	DT	KL
PL1	11.05.17	SB	DT	CHD	APPL

ARUP

One Albert Quay
Dublin 4, Ireland
Tel: +353 (0)1 477 8177 Fax: +353 (0)1 477 2346
www.arup.com

Client

Cork County Council

Project Title
**Douglas Flood Relief Scheme
(Including Toghier Culvert)**

Drawing Title

Proposed Flood Defences Sections
Sheet 3 of 3

Scale: A1 As Shown

Role: Civil

Speciality: Planning

Drawn By: **234335-00**

Rev: **PL1**

Project No: **C-000-017**

Notes:

1. All levels are in Metres Ordnance Datum Mean Head (mOD) unless otherwise noted.



Rev	Date	By	CHKD	Appd
PL1	11.05.17	SB	DT	KL

ARUP

One Albert Quay
 Dublin 1, Ireland
 Tel: +353 (0)1 477 8100
 www.arup.com

Client

Cork County Council

Project Title
**Douglas Flood Relief Scheme
 (Including Toghther Culvert)**

Drawing Title

**Proposed Flood Defences
 Toghther Details
 Sheet 1 of 2**

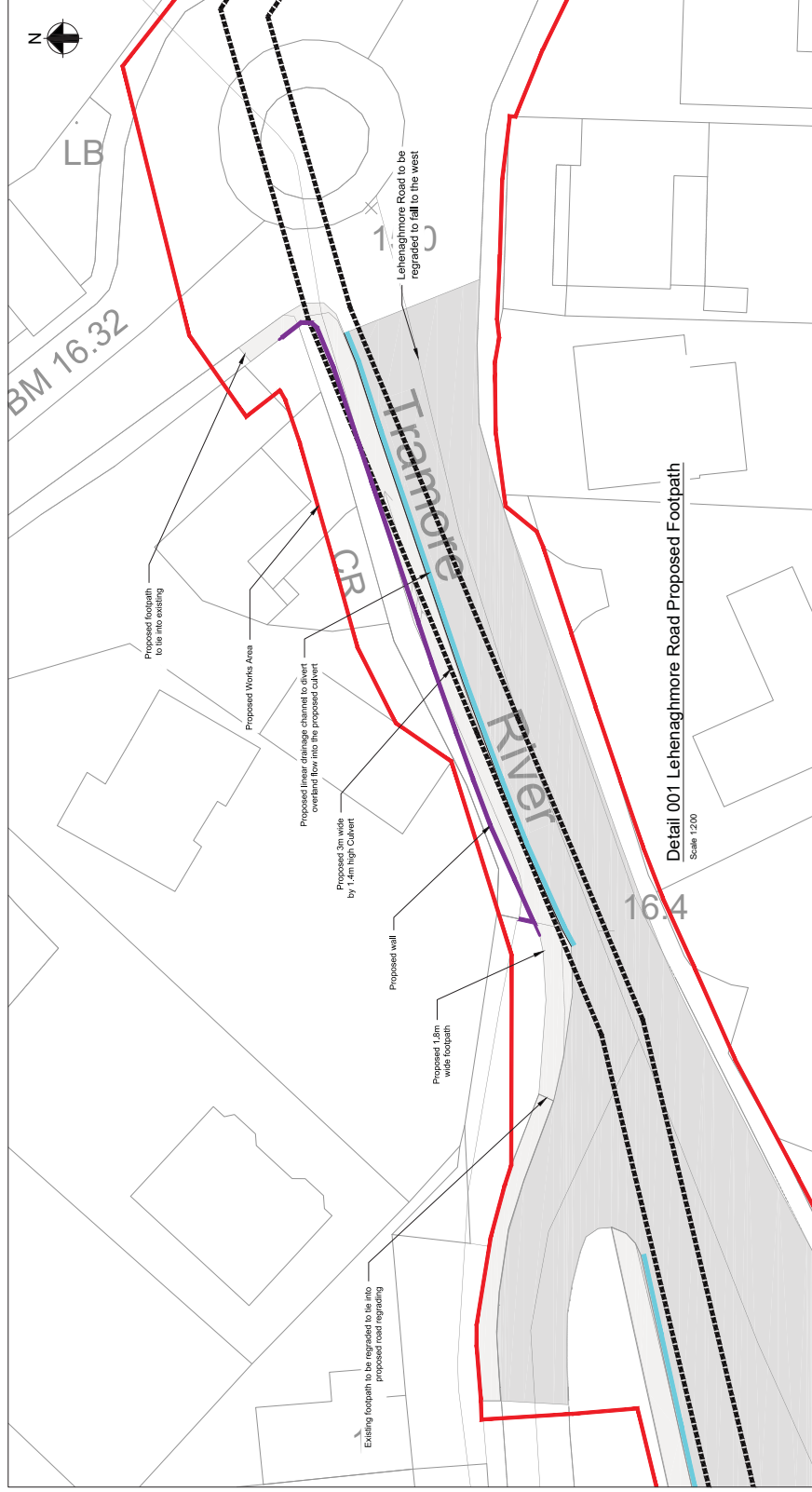
Scale: A1 1:200 Size: A3 1:400
 Date: 11.05.17
 Rev: 01

Author: Planning

Drawn: **PL1**

Project No:
234-335-00

Drawing No:
C-000-018



Detail 001 Lehenaghmore Road Proposed Footpath
 Scale 1:200

A J K L M N

1 2 3 4 5 6 7 8 9 10 11

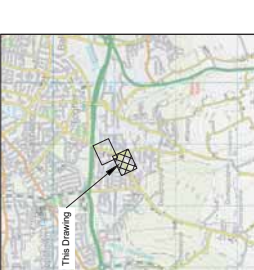
Legend

- Proposed Works Area
- Watercourse
- Proposed Semi Mature Tree Planting

Notes:

- All elevations in Metres. Ordnance Datum Mean Height (ODM) unless otherwise stated.

Ordnance Survey Ireland Licence No. EI 0022817
 © Ordnance Survey Ireland/ Government of Ireland



ARUP
 One Albert Quay
 The Liberties, Dublin 8
 Tel: +353 (0)1 477 6767 Fax: +353 (0)1 477 2345
 www.arup.com

Rev.	Date	By	Checked	App'd	RL
PL1	11.05.17	SB	DT	CHD	AYSD

Cork County Council

Project Title: Douglas Flood Relief Scheme (including Toghur Culvert)

Drawing Title: Proposed Tree Replanting Toghur - Sheet 1 of 2

Scale: A1 1:1000, A2 1:2000

Site No: 234335-00

Rev: PL1

C-000-020



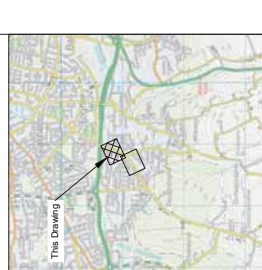
Legend

- Proposed Works Area
- Watercourse
- Proposed Semi Mature Tree Planting

Notes:

- All dimensions in Metres. Ordnance Datum Mean Height (ODM) unless otherwise stated.

Ordnance Survey Ireland Licence No. EI1 0023817
 © Ordnance Survey Ireland/ Government of Ireland



OPW

PL1	11.05.17	SB	DT	RL
Rev	Date	By	Chkd	Appd

ARUP
 One Albert Quay
 The Liberties, Dublin 8
 Tel: +353 (0)1 427 8175 Fax: +353 (0)1 427 2345
 www.arup.com

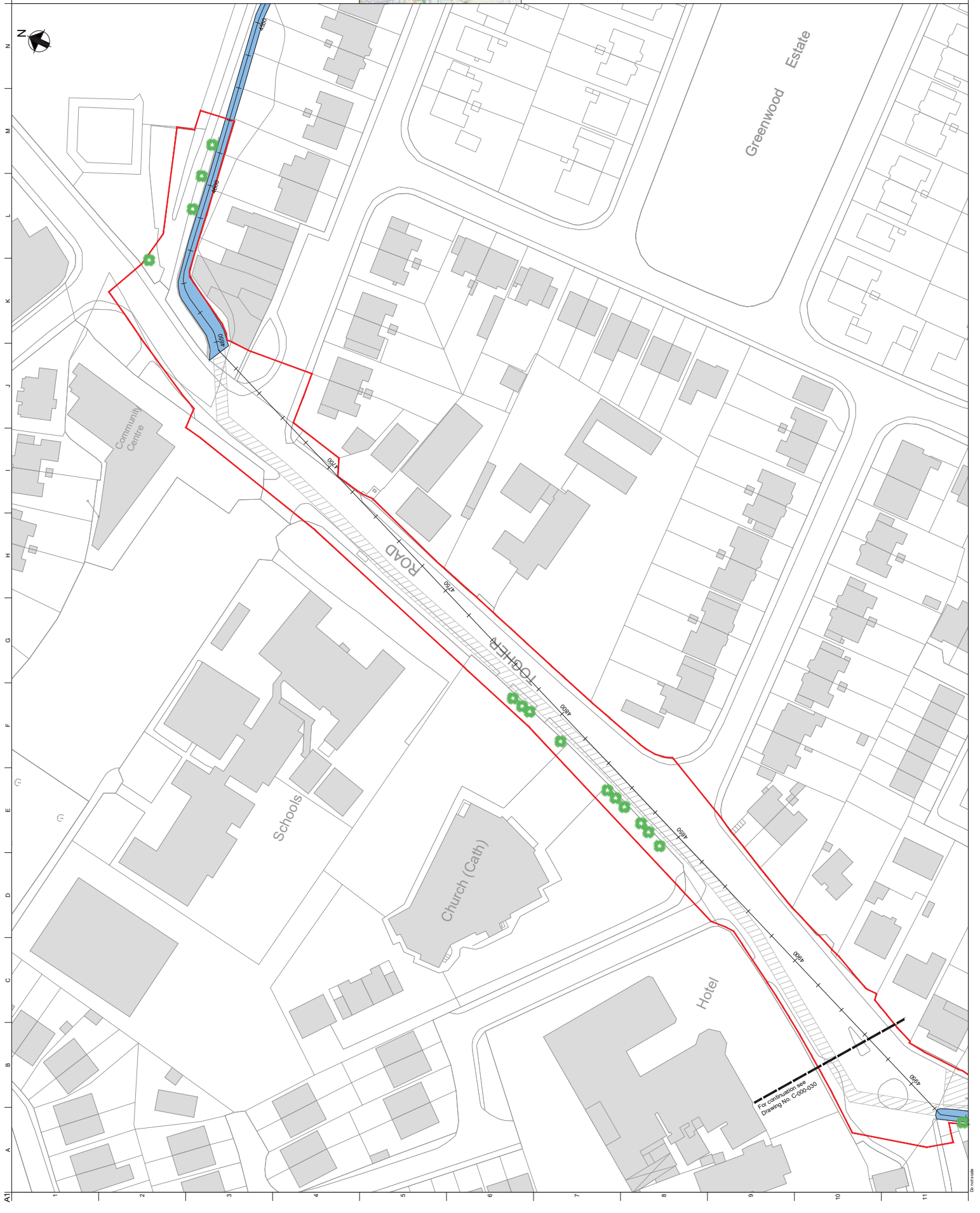
Client
 Cork County Council

Project Title
 Douglas Flood Relief Scheme
 (Including Toghra Culvert)




Drawing Title
 Proposed Tree Replanting
 Toghra - Sheet 2 of 2

Scale: A1 1:1000 Scale: A3 1:2000
 Date: 11.05.17
 Rev: 01
 Status: Planning

Drawn By: PL1
 Checked By: PL1
 Project No: C-000-021



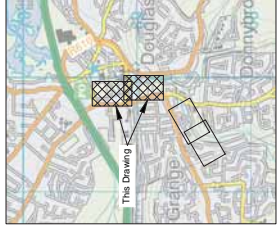
Legend

-  Proposed Works Area
-  Watercourse
-  Proposed Semi Mature Tree Planting

Notes:

1. All levels are in Metres. Ordnance Datum Mean (AOD) unless otherwise noted.

Ordnance Survey, Ireland Licence No. EI1 0002817
© Ordnance Survey (Ireland) / Government of Ireland



KEY PLAN



Rev	Date	By	Checked	App'd
P1	25.04.17	SB	DT	KL

ARUP

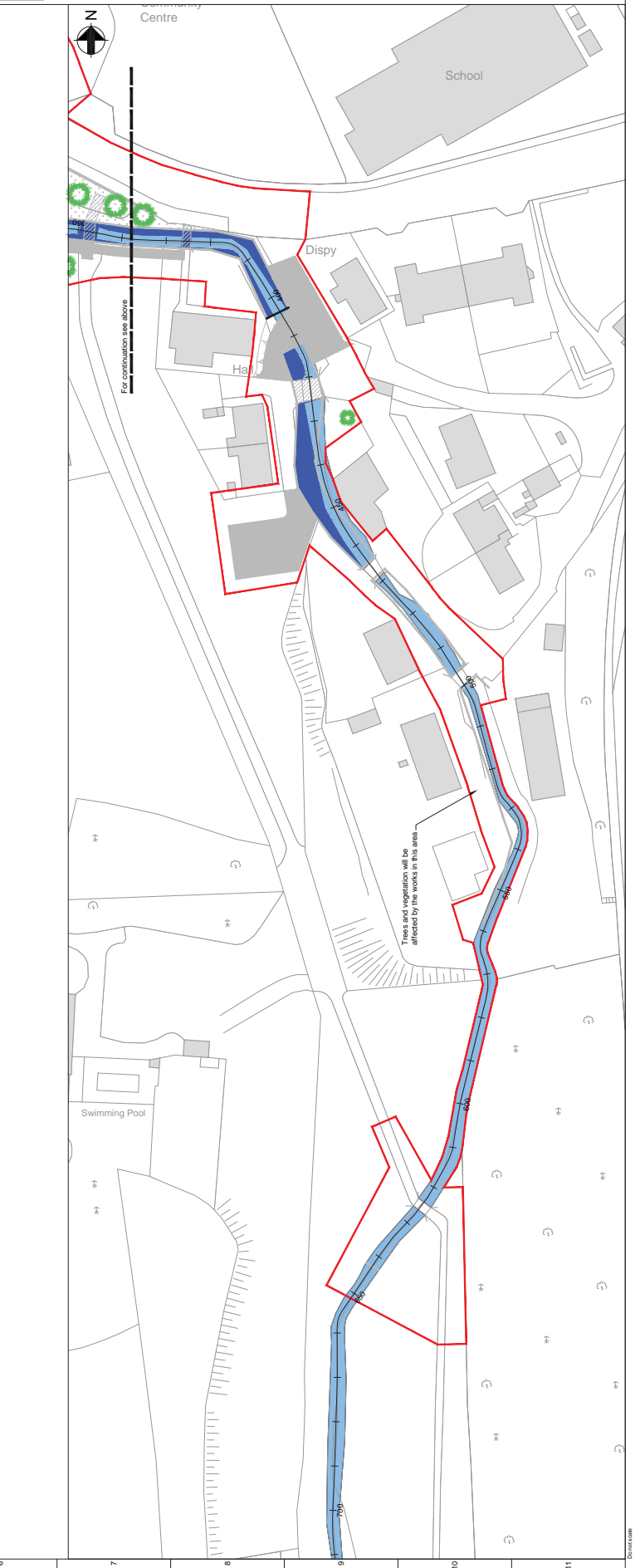
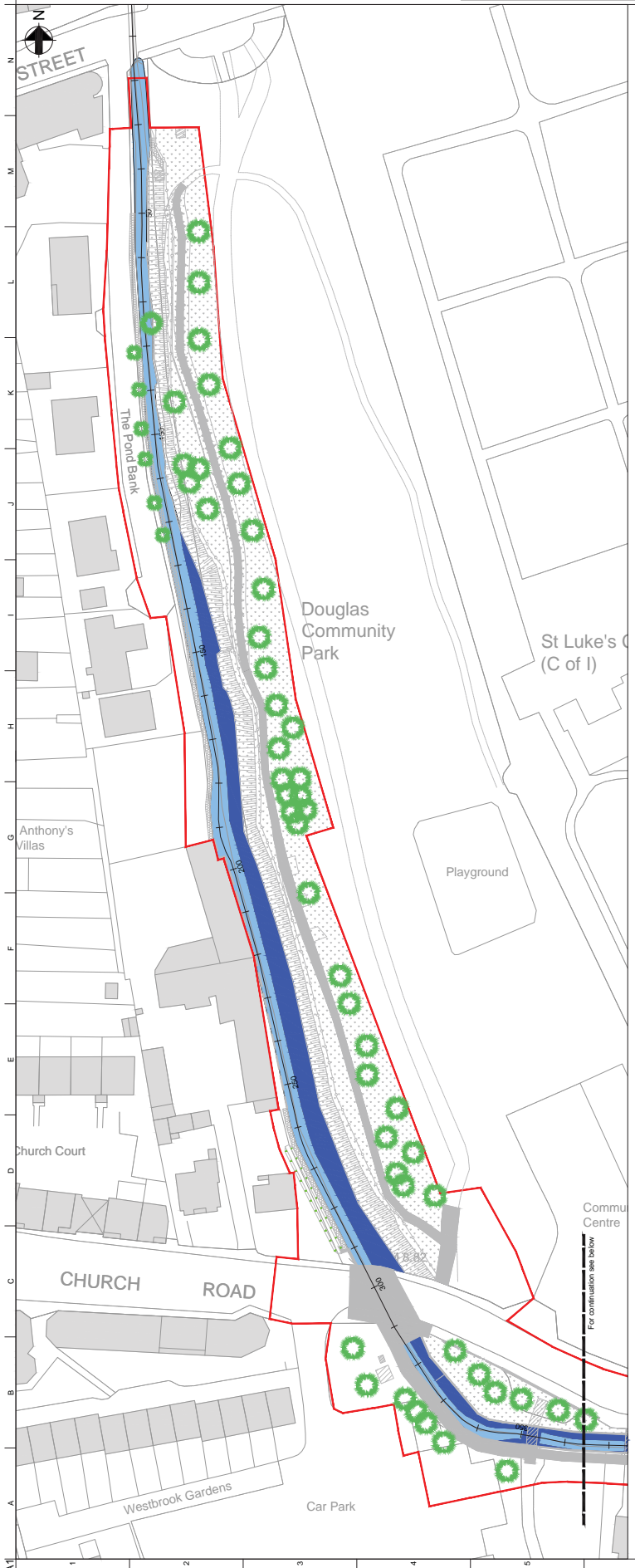
One Albert Quay
Dublin 2, Ireland
Tel: +353 (0)1 477 7676 Fax: +353 (0)1 477 2346
www.arup.com

Client
Cork County Council

Project Title
**Douglas Flood Relief Scheme
(Including Trough Culvert)**

Drawing Title
**Proposed Trees Replanting
Douglas - Sheet 1 of 2**

Scale	Sheet # of #
1:500	1 of 2
Discipline	Author
Civil	SB
Checked	DT
Approved	KL
Project No.	234335-00
Revision	PL1
Drawing No.	C-000-022



0.000000

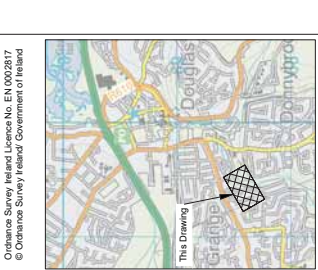
Legend

- Proposed Works Area
- Watercourse
- Proposed Semi Mature Tree Planting

Notes:

- All Works are in Metres. Ordnance Datum Mean Height (ODM) unless otherwise noted.

Ordnance Survey Ireland Licence No. EI1 0002817
 © Ordnance Survey Ireland/ Government of Ireland



PL1	11.05.17	SB	DT	KL
Rev	Date	By	Check	App'd

ARUP
 One Albert Quay
 The Liberties, Dublin 8, Ireland
 Tel: +353 (0)1 477 6767 Fax: +353 (0)1 477 2345
 www.arup.com

Client
 Cork County Council

Project Title
 Douglas Flood Relief Scheme
 (Including Trough Culvert)

Drawing Title
 Proposed Tree Replanting
 Douglas - Sheet 2 of 2

Scale: A1 1:500 Scale: A3 1:1000

Discipline
 Civil

Subsidiary
 Planning

Drawn By
 234335-00

Checked By
 PL1

Project No.
 C-000-023

