

- LEGEND:**
- = EXISTING BUILDING
 - = EXISTING FOULWATER SEWER
 - = EXISTING FOULWATER MANHOLE
 - = EXISTING COMBINED SEWER
 - = EXISTING COMBINED MANHOLE
 - = EXISTING STORMWATER SEWER
 - = EXISTING STORMWATER MANHOLE
 - = EXISTING GULLY
 - = PROPOSED GREEN ROOF
 - = PROPOSED CANOPY / FLAT ROOFS
 - = PROPOSED PITCHED ROOF
 - = PROPOSED FOULWATER SEWER
 - = PROPOSED FOULWATER MANHOLE
 - = PROPOSED STORMWATER SEWER
 - = PROPOSED STORMWATER MANHOLE
 - = PROPOSED GULLY
 - = EXISTING LEVELS
 - = PROPOSED LEVELS
 - = PROPOSED FINISH FLOOR LEVELS
 - = PROPOSED ACO DRAIN

DUE PIPES RUN BENEATH PROPOSED BUILDING, PIPES TO BE ENCASED IN CONCRETE FOR PROTECTION AS PER USICE ÉIREANN STANDARD DETAIL STD-WW-08.

SECTION OF RUN TO BE PROTECTED HIGHLIGHTED IN YELLOW.

SPIGOT AND SOCKET JOINT TO BE INSTALLED AS PER TGD H AT EACH JOINT.

REFER TO DFCE DRAWING D2104DR006-02 FOR FURTHER DETAIL.

EXISTING STORM WATER MANHOLE TO BE REMOVED.

ALLOWANCE TO BE MADE FOR THE DECOMMISSIONING AND REMOVAL OF SAME ALONG WITH ALL CONTAMINATED SOIL WITHIN 500mm OF TOP,BOTTOM AND SIDES.

PROPOSED FOULWATER TO CONNECT LOCALLY TO FOULWATER SYSTEM AT THIS LOCATION

FOUL / STORM MANHOLES:
MANHOLES SHALL BE CONSTRUCTED OF EITHER:

HIGH DENSITY BLOCK
BLOCK WORK IS TO BE FLUSH POINTED AND NOT PLASTERED, IN ACCORDANCE WITH IS 20, DESIGNATION S10, OR EQUIVALENT, AND LINED INTERNALLY WITH SOLID ENGINEERING BRICK TO IS 91 OR EQUIVALENT, TO A HEIGHT OF 1 METRE ABOVE BENCHING. BRICK TO BE BONDED TO THE BLOCK WORK USING ENGLISH GARDEN WALL BOND.

OR
CAST IN SITU
IN SITU CONCRETE, CLASS 30/20mm.THE MINIMUM WALL THICKNESS IS TO BE 225mm. HIGHER THICKNESSES MAY BE REQUIRED UNDER MAIN ROADS.

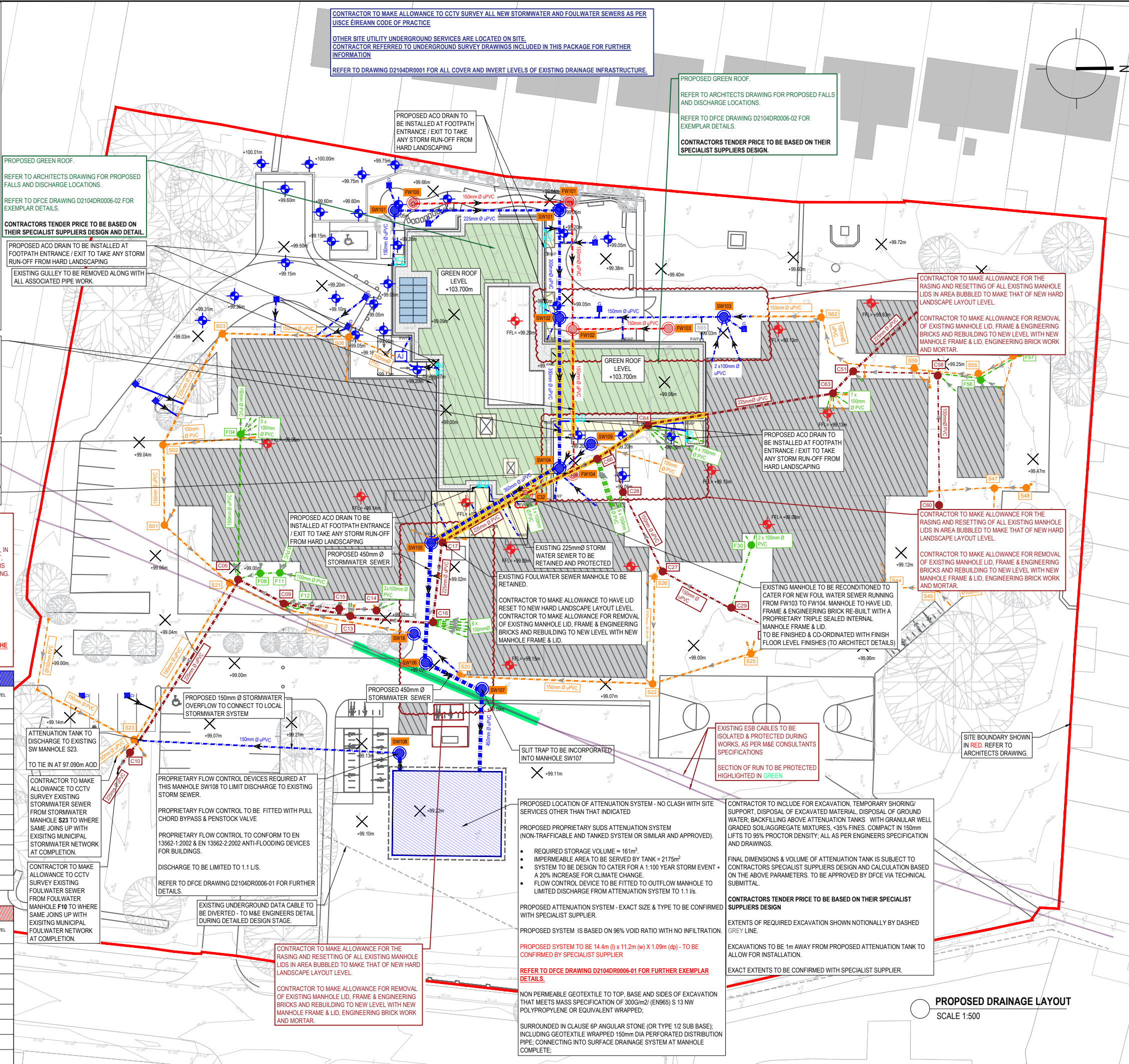
ALL OUTFALL MANHOLES MUST BE CONSTRUCTED AS PER THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS VERSION 6.0.

TABLE 4: PROPOSED STORMWATER MANHOLE SCHEDULE

MANHOLE NAME:	COVER LEVEL (m)	MANHOLE DEPTH (m)	INVERT LEVEL (m)
SW100	99.050	0.700	98.350
SW101	99.050	1.000	98.050
SW102	99.050	1.200	97.850
SW103	99.050	0.700	98.350
SW104	99.000	1.310	97.690
SW105	99.000	1.480	97.520
SW106	99.150	1.760	97.390
SW107	99.150	1.790	97.360
SW108	99.150	1.830	97.320
SW109	98.970	0.620	98.350
S18 (Existing - manhole to be removed)	99.050	0.970	98.080
S23 (Existing)	99.120	2.100	97.020

TABLE 5: PROPOSED FOULWATER MANHOLE SCHEDULE

MANHOLE NAME:	COVER LEVEL (m)	MANHOLE DEPTH (m)	INVERT LEVEL (m)
FW100	99.050	0.900	98.150
FW101	99.050	0.610	98.440
FW102	99.050	0.720	98.330
FW103	99.000	0.670	98.330
FW104	99.000	0.670	98.330
F16 (Existing)	99.040	1.130	97.910
F17 (Existing)	99.020	1.000	98.020
F32 (Existing)	99.030	0.900	98.130



General Notes:

- THIS DRAWING IS THE PROPERTY OF D. FALLON CONSULTING ENGINEERS. IT IS A CONFIDENTIAL DOCUMENT AND MUST NOT BE COPIED, USED, OR ITS CONTENT DIVULGED WITHOUT PRIOR CONSENT.
- ALL WORKS TO COMPLY WITH THE BUILDING REGULATIONS AND THE BUILDING CONTROL ACT 2014, CURRENT IRISH STANDARDS AND CODES OF PRACTICE.
- DO NOT SCALE. ALL DIMENSIONS TO BE CHECKED ON SITE AND ANY DISCREPANCIES TO BE NOTIFIED TO ARCHITECT / ENGINEER.
- ALL CONTRACTORS, WHETHER MAIN OR SUB CONTRACTORS MUST VISIT THE SITE AND ARE RESPONSIBLE FOR TAKING AND CHECKING ANY AND ALL DIMENSIONS AND LEVELS THAT RELATE TO THE WORKS.
- WHERE THIS DRAWING CONTAINS DISCREPANCIES IN RELATION TO OTHER RELEVANT DOCUMENTS, SUCH DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS / ENGINEERS WHO SHALL ISSUE A WRITTEN INSTRUCTION AS TO WHICH INFORMATION IS TO BE FOLLOWED, AND UNTIL SUCH INSTRUCTIONS HAS BEEN ISSUED ANY WORK CARRIED OUT ON FOOT OF THE DISCREPANCIES SHALL BE UNAUTHORISED.
- PROPRIETARY ITEMS SHALL BE FIXED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

FOUL / STORMWATER NETWORK NOTES

NOTE A:
THERE SHOULD BE A MINIMUM CLEAR HORIZONTAL DISTANCE OF AT LEAST 300mm BETWEEN THE GRAVITY SEWERING MAIN AND ANY OTHER UTILITIES RUNNING PARALLEL TO IT AS WELL AS TO CABINETS, POLES, JUNCTION BOXES, MANHOLES OR CHAMBERS AS PER USICE ÉIREANN DETAIL STD-WW-06. ANY SEWER CROSSING A WATER MAIN SHALL DO SO AT RIGHT ANGLES, OR AS NEAR AS POSSIBLE, TO AVOID PROLONGED ENVELOPES OF INFLUENCE BETWEEN THE SERVICES. CROSSINGS SHOULD BE LOCATED MIDWAY BETWEEN THE WATER MAIN JOINTS WITH A MINIMUM VERTICAL CLEAR DISTANCES OF AT LEAST 300mm AND UP TO 600mm IN SOME INSTANCES BETWEEN THE SEWER PIPE AND THE WATER MAIN. SUCH CROSSINGS SHALL BE TO RUSH WATER APPROVAL AND SHALL NOT BE UNDERTAKEN UNTIL RUSH WATER OR ITS AGENT HAS EXAMINED THE WORK AT THE CROSSING POINT AND DEEMED IT FIT FOR BACKFILLING. SPECIFIC SEPARATION CLEARANCE DISTANCES IN EXCESS OF THOSE OUTLINED ABOVE SHALL BE PROVIDED FOR SERVICES SUCH AS GAS, ELECTRICITY, FIBRE-OPTIC OR CUL FILLED CABLES AS THE CASE MAY BE. THESE MINIMUM SEPARATION DISTANCES AND EVIDENCE OF THIS CONSULTATION, WITH SEPARATION DISTANCES, SHALL BE PROVIDED TO USICE ÉIREANN.

NOTE B:
SEPARATION DISTANCES FOR FOUL INFRASTRUCTURE TO COMPLY WITH USICE ÉIREANN CODE OF PRACTICE FOR SEPARATION DISTANCES.

NOTE C:
ALL LOCAL CONNECTION DRAINAGE INFRASTRUCTURE TO BE INSTALLED IN ACCORDANCE WITH TGD PART H. ALL INSPECTION CHAMBERS PROVIDED ARE TO BE PROVIDED IN ACCORDANCE WITH USICE ÉIREANN STANDARD DETAIL STD-WW-02 AND STD-WW-03. REFER TO TABLES FOR COVER / INVERT LEVELS OF PROPOSED MANHOLES.

NOTE D:
SERVICE LAYOUT DISTANCES SHOULD BE FOLLOWED IN ACCORDANCE WITH USICE ÉIREANN STANDARD DETAIL STD-WW-05.

NOTE E:
WHERE ANY DISCREPANCIES MAY ARISE ON THIS LAYOUT, WHICH MAY CONTRADICT THE USICE ÉIREANN CODES OF PRACTICE AND STANDARD DETAILS, THE WORKS SHALL BE DESIGNED AND CARRIED OUT TO THE REQUIREMENTS OF THE USICE ÉIREANN COP & STANDARD DETAIL DOCUMENTS - THESE TAKE PRECEDENCE.

NOTE F:
ALL COVERS TO MANHOLES AND OTHER OPENINGS OF THE WASTEWATER SYSTEM AND ON SURFACE WATER SYSTEM SHOULD BE WATER TIGHT.

NOTE G - GULLIES:
GULLIES FOR DRAINAGE OF ROADS AND LARGE PAVED AREA ARE TO BE PRECAST CONCRETE, COMPLYING WITH REQUIREMENTS OF BS 5911 PART 230 OR MAY CONSIST OF A CHAMBER CONSTRUCTED OF 100mm SOLID BLOCKWORK AND HAVING A 150mm IN SITU CONCRETE FLOOR, WITH MINIMUM INTERNAL DIMENSIONS OF 450mm X 300mm X 750mm. THE OUTLET FROM THE GULLY SHOULD BE 100mm DIAMETER, SET A MINIMUM OF 375mm ABOVE FLOOR CHAMBER. THE CLASS OF GULLY GRATING REQUIRED FOR ROADWAYS & VEHICULAR ACCESSES IS CLASS D 400 (i.e. TRAFFICABLE), AND CLASS B 125 FOR FOOTWAYS & GRASS VERGES, AS PER IS EN 124. CAST IRON GULLIES ARE PROPOSED HERE.

NOTE H - ACO DRAINS:
150mm Ø CONSTANT DEPTH ACO DRAIN CHANNEL WITH LOAD CLASS D 400 ARE PROPOSED (i.e. NON TRAFFICABLE) AS PER IS EN 124.

PIPELINES:
ALL PIPELINES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF BOTH THIS CODE OF PRACTICE AND THE LOCAL SANITARY AUTHORITY. ALL SEWERAGE SYSTEMS SHOULD BE DESIGNED TO MINIMISE THE PRODUCTION OF HYDROGEN SULPHIDE AND THAT SULPHATE RESISTANT CONCRETE SHOULD BE USED IN ANY CASE WHERE ITS PRODUCTION MAY OCCUR.

PIPE TYPES:
THE FOLLOWING MUST BE USED IN THE CONSTRUCTION OF MAIN PIPES OR CONNECTIONS FROM GULLIES OR PRIVATE DRAINS. THE LIST BELOW APPLIES TO ALL THE LOCAL SANITARY AUTHORITIES APART FROM DUBLIN CITY COUNCIL WHO DO NOT APPROVE THE USE OF UPVC PIPES IN THE PUBLIC AREA.

CONCRETE:
CONCRETE SEWER PIPES WITH SPIGOT AND SOCKET JOINTS AND RUBBER RINGS FITTINGS TO COMPLY WITH IS EN 1916 AND IS 8:2004 OR EQUIVALENT STANDARD, CLASS B OR CLASS H.

GLASS REINFORCED POLYESTER (GRP):
GLASS REINFORCED POLYESTER (GRP) PIPES AND FITTINGS MUST COMPLY WITH THE REQUIREMENTS OF I.S. EN 295-1/2/3:1992 OR EQUIVALENT STANDARD, CLASS 100 OR 200.

ALL OUTFALL PIPEWORK MUST BE CONSTRUCTED AS PER THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS VERSION 6.0.

NOTES ABOVE ARE FOR INFORMATION ONLY. WHERE CONFLICTS WITH IRISH WATER LATEST WATER INFRASTRUCTURE DETAILS - CONNECTION AND DEVELOPER SERVICES, IRISH WATER SPECIFICATIONS TAKE PRECEDENT

IRISH GRID CO-ORDINATES:
EASTINGS (X) = 318356, NORTHINGS (Y) 226584

B02	Tender	LMcG	AA	19/08/2026
B01	Pre-Tender	LMcG	AA	05/02/2026
P01	Planning	JG	JG	01/05/2024
D03	Draft	JG	JG	10/04/2024
D02	Draft	JG	JG	03/04/2024
D01	Draft	IMS	JG	08/02/2023
Rev:	Description:	By:	App:	Date:

Status: **TENDER**

Client: Queen of Angels Primary School

Project: Additional Accommodation
Queen of Angels Primary School
Sandyford, Dublin 16

Drawing: Proposed Drainage Layout

Scale At A3: 1:500
Date: AUG 2026
Job No: D2104
Status Code: X

Drawing Number: D2104DR0002
Revision: B02

D.Fallon Consulting Engineers
Galway Office: 150-151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 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.