

Title: Stage 1 Road Safety Audit

For;

**Link Road to Clonlara Road, Baldonnell Business Park,
Dublin 22.**

Client: PUNCH Consulting Engineers

Date: April 2022

Report reference: 1462R01

VERSION: FINAL (May 2022)

Prepared By:

Bruton Consulting Engineers Ltd

Glaspistol

Clogherhead

Drogheda

Co. Louth.

Tel: 041 9881456

Mob: 086 8067075

E: admin@brutonceng.ie

W: www.brutonceng.ie

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1.0 Introduction

This report was prepared in response to a request from Mr. Mark Richardson, PUNCH Consulting Engineers, for a Stage 1 Road Safety Audit for the proposed Link Road to Clonlara Road, Baldonnell Business Park in Brownsbarn, Dublin 22.

The Road Safety Team comprised of;

Team Leader: **Norman Bruton**, BE CEng FIEI, Cert Comp RSA
TII Auditor Approval no. NB 168446

Team Member: **Owen O'Reilly**, B.SC. Eng Dip Struct. Eng NCEA Civil Dip Civil. Eng CEng MIEI
TII Auditor Approval no. OO1291756

The Road Safety Audit comprised of an examination of drawings and other material provided. A site visit was undertaken by both team members, together on the 20th of April 2022. The weather at the time of the site visit was dry and the road surface was also dry.

This Stage 1 Road Safety Audit has been carried out in accordance with the requirements of TII Publication Number GE-STY-01024, dated December 2017.

The scheme has been examined and this report compiled in respect of the consideration of those matters that have an adverse effect on road safety. It has not been examined or verified for compliance with any other standards or criteria.

The problems identified in this report are considered to require action in order to improve the safety of the scheme for road users.

If any of the recommendations within this safety audit report are not accepted, a written response is required, stating reasons for non-acceptance. Comments made within the report under the heading of Observation are intended to be for information only. Written responses to Observations are not required.

The information supplied to the Audit Team is listed in **Appendix A**.

The feedback form is contained in **Appendix B**.

A plan drawing showing the problem locations is contained in **Appendix C**.

2.0 Background

It is proposed to construct a link road in Baldonnell Business Park. The proposed work includes the conversion of a roundabout to a through road with two access junctions in close proximity.

The scheme is located adjacent to a crossing of the river Camac over which a bridge is constructed with parapet railings.

The Speed limit is 30km/hr on Clonlara Road, Traffic calming speed humps exist to maintain low speeds. Construction works were ongoing in the area at the time of the site visit. A localised speed limit of 20km/hr is to be introduced at the severe bend leading to the Camac River crossing.

The site location is shown below.

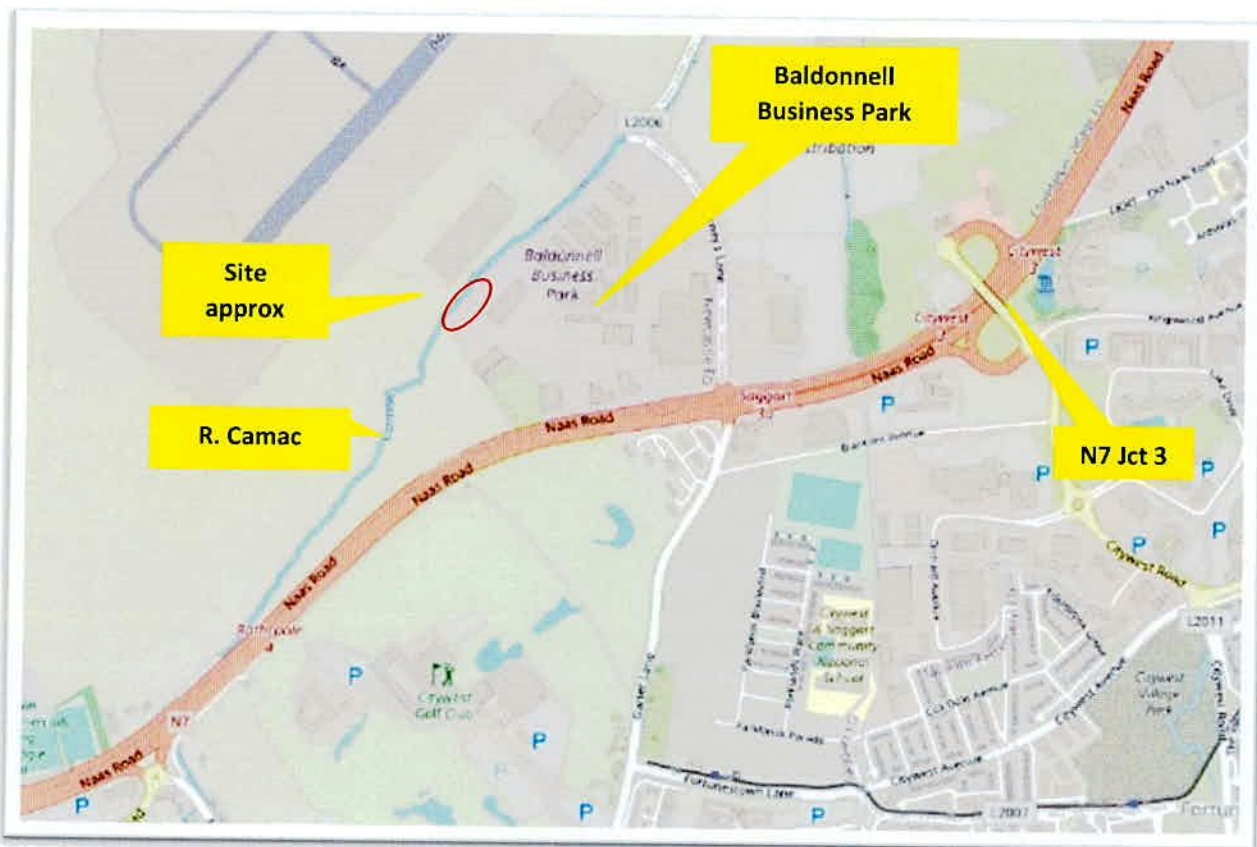
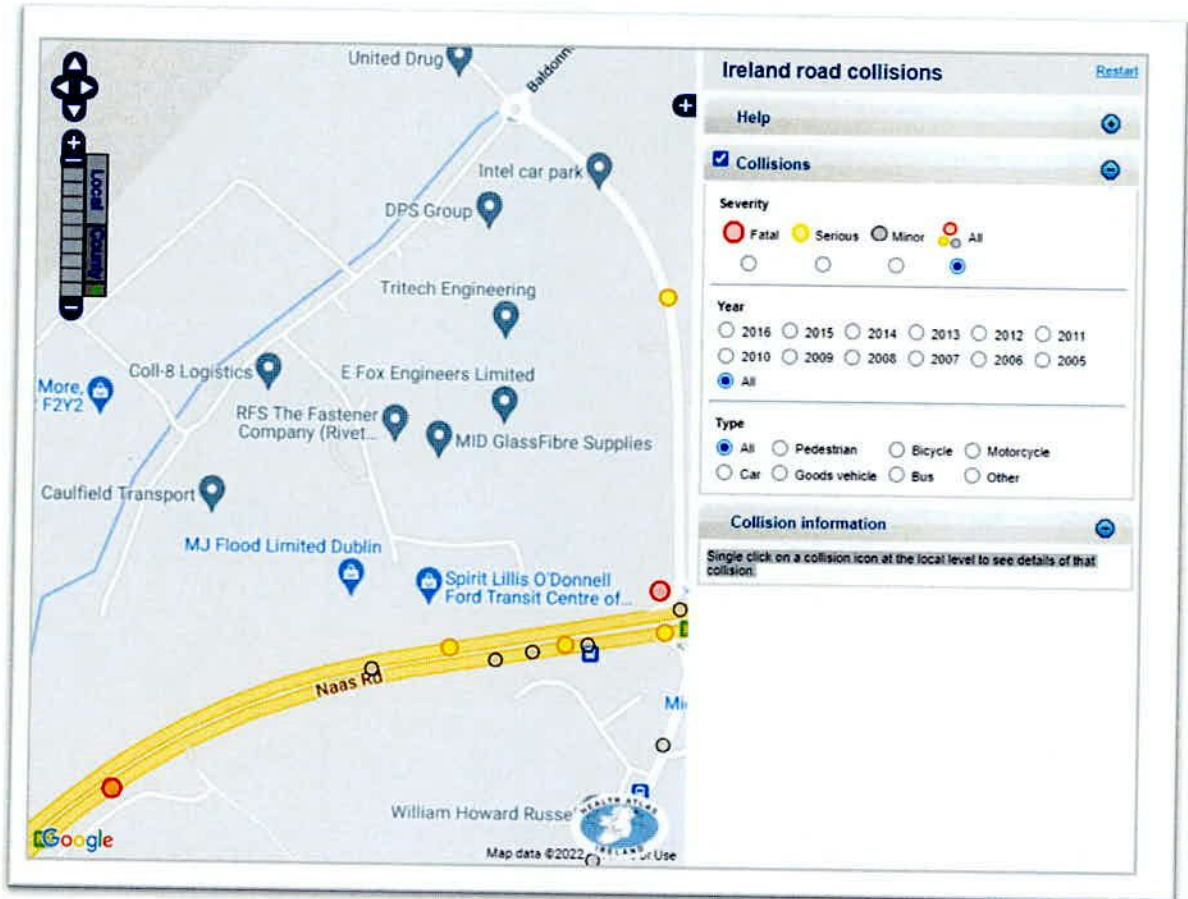


Image courtesy of openstreetmaps.org

2. 1 Collision History

The Road Safety Authority's website shows the recorded collisions during the 12-year period 2005 to 2016. There were no recorded collisions in the vicinity of the site in that period.



3.0 Issues Raised in the Road Safety Audit.

3.1 Problem

LOCATION

Drawing 212126-PUN-XX-XX-M2-C-0420 P03

PROBLEM

There is a risk of surface water ponding at the dropped kerbs of the uncontrolled pedestrian crossing points which could lead to slips and falls particularly in icy conditions.

RECOMMENDATION

Provide gullies immediately upstream of the uncontrolled pedestrian crossings.

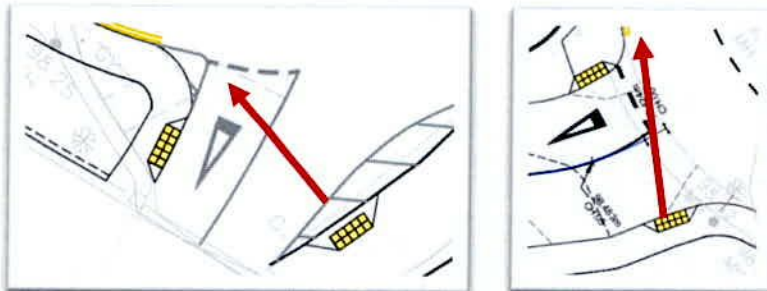
3.2 Problem

LOCATION

Drawing 212126-PUN-XX-XX-M2-C-0420 P03

PROBLEM

The tactile paving at the uncontrolled crossings do not align on either side of the carriageways. This could lead to blind or partially sighted pedestrians being directed incorrectly as they attempt to cross the carriageway. This could lead to collisions with passing vehicles.



RECOMMENDATION

It is recommended that the tactile paving be aligned.

3.3 Problem

LOCATION

Drawing 212126-PUN-XX-XX-M2-C-0420 P03

PROBLEM

The access roads have Yield control junctions. Yield signs have not been shown on the drawings. Without adequate signage drivers exiting the proposed access road (Street 2) may assume priority if the road markings become faded which could result in side-impact collisions.

RECOMMENDATION

It is recommended that Yield signs be provided at both accesses in locations where there is suitable forward visibility for approaching drivers and they are not hazards for pedestrians.

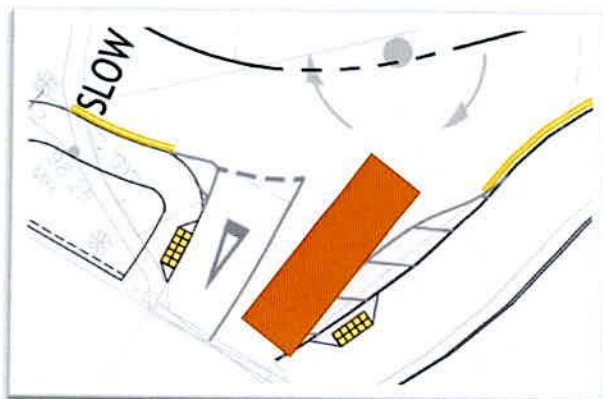
3.4 Problem

LOCATION

Drawing 212126-PUN-XX-XX-M2-C-0420 P03

PROBLEM

It is unclear if a HGV can park outside the Caulfield Transport gated entrance without overhanging the through road. If the trailer overhangs this could lead to side-swipe or rear-end collisions.



RECOMMENDATION

It is recommended that the gate be far enough back so that a HGV driver can pull clear of the carriageway when looking to speak through the intercom to gain access.

4.0 Audit Statement

We certify that we have examined the material provided. The examination has been carried out with the sole purpose of identifying any aspects of the design which could be added, removed or modified in order to improve the safety of the scheme.

The problems identified have been noted in this report together with associated safety improvement suggestions which we would recommend should be studied for implementation. The audit has been carried out by the persons named below who have not been involved in any design work on this scheme as a member of the Design Team.

Norman Bruton

Signed: Norman Bruton

(Audit Team Leader)

Dated: 16/5/2022

Owen O'Reilly

Signed: Owen O'Reilly

(Audit Team Member)

Dated: 16/5/2022

Appendix A

List of Material Supplied for this Audit;

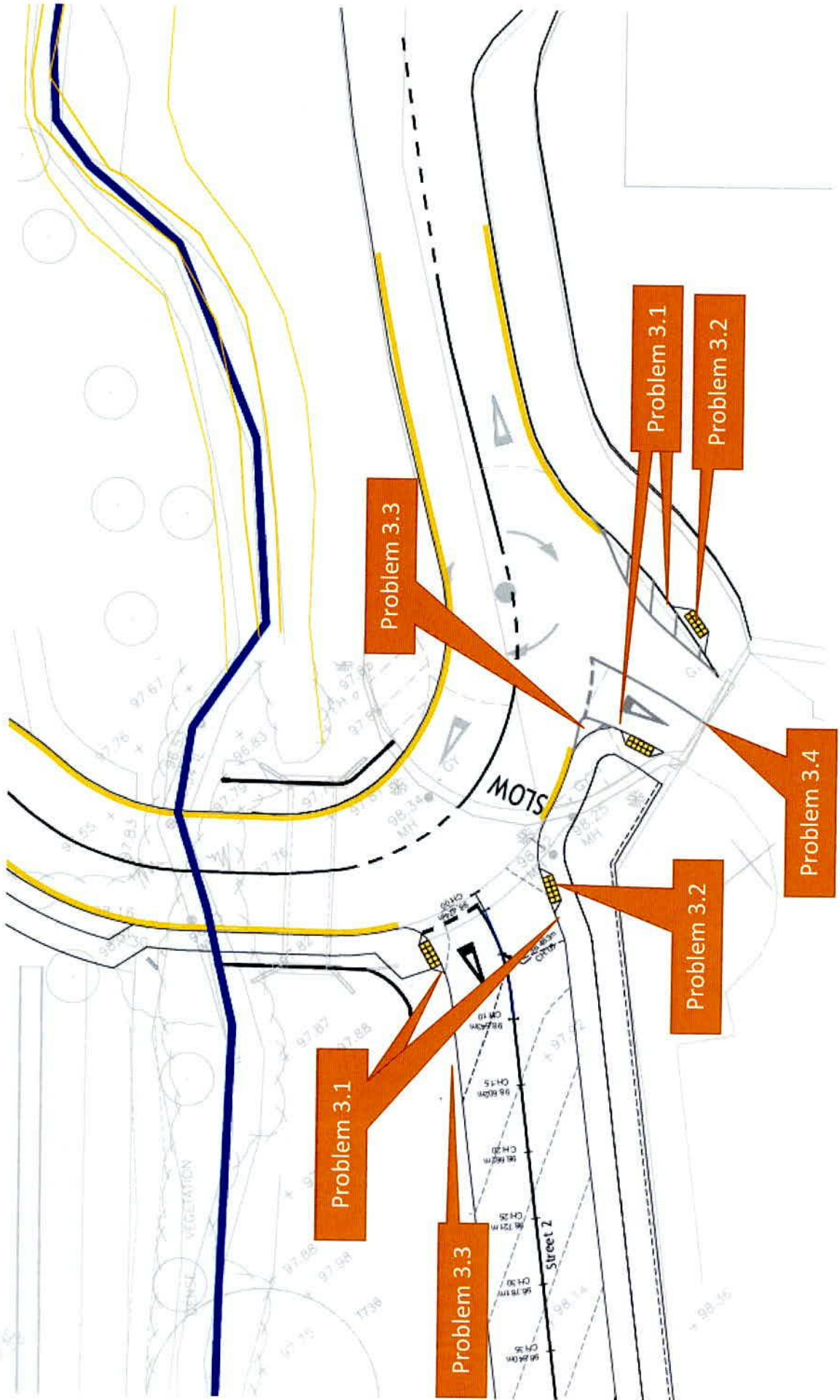
- Drawing 212126-PUN-XX-XX-DR-C-0624
- Drawing 212126-PUN-XX-XX-DR-C-0625
- Drawing 212126-PUN-XX-XX-DR-C-0100
- Drawing 212126-PUN-XX-XX-DR-C-0400
- Drawing 212126-PUN-XX-XX-DR-C-0401
- Drawing 212126-PUN-XX-XX-DR-C-0420
- Drawing 212126-PUN-XX-XX-DR-C-0600
- Drawing 212126-PUN-XX-XX-DR-C-0601
- Drawing 220421_SMcN-Metec_CG link road services dwg_MPK-MET-ZZ-ZZ-DR-E-6001
- Drawing 18417-2-141 LMP
- Drawing 220421_SMcN-Metec_CG Link Road lighting plan_MPK-MET-ZZ-ZZ-DR-E-6002

Appendix B

Feedback Form

Appendix C

Problem Location Plan.





ROAD SAFETY AUDIT FORM – FEEDBACK ON AUDIT REPORT

Scheme: Baldonnell Access Road

Stage: Stage 1 Road Safety Audit

Date Audit (Site Visit) Completed: 20-4-2022

Paragraph No. in Quality Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.1	Yes	Yes		
3.2	Yes	Yes		
3.3	Yes	Yes		
3.4	Yes	Yes		

BRUTON CONSULTING ENGINEERS
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 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
Signed Mark Richardson
Design Team Leader

Date 19/5/2022

Signed *Norman Bruton*
Audit Team Leader

Date 16/5/2022

Signed *C. V. Grace*
Employer/Developer

Date 28/05/2022
25/5/2022