



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.36 - Cross Section Plans

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)
Planning Act 2008**

Author: CH2M

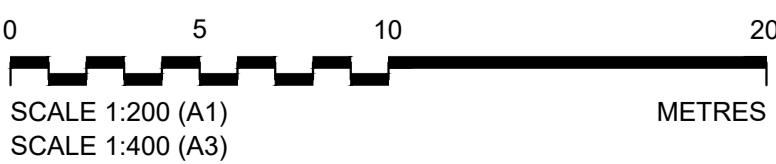
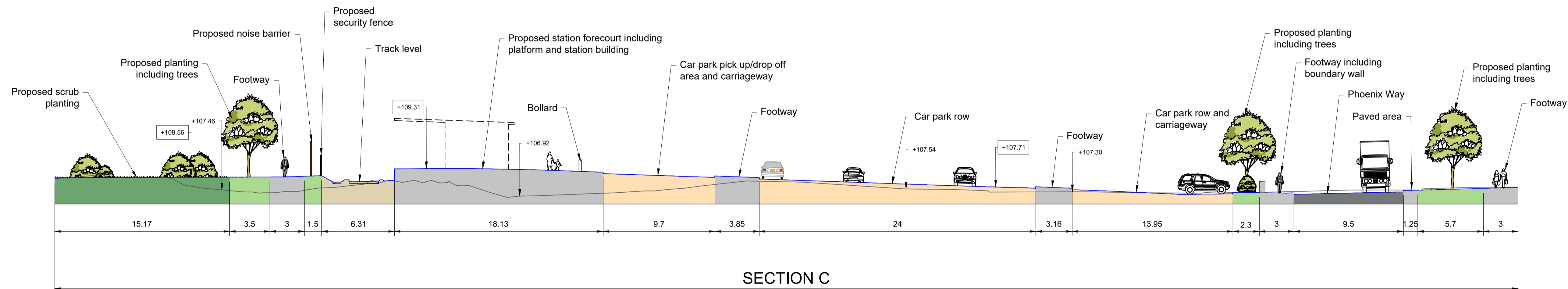
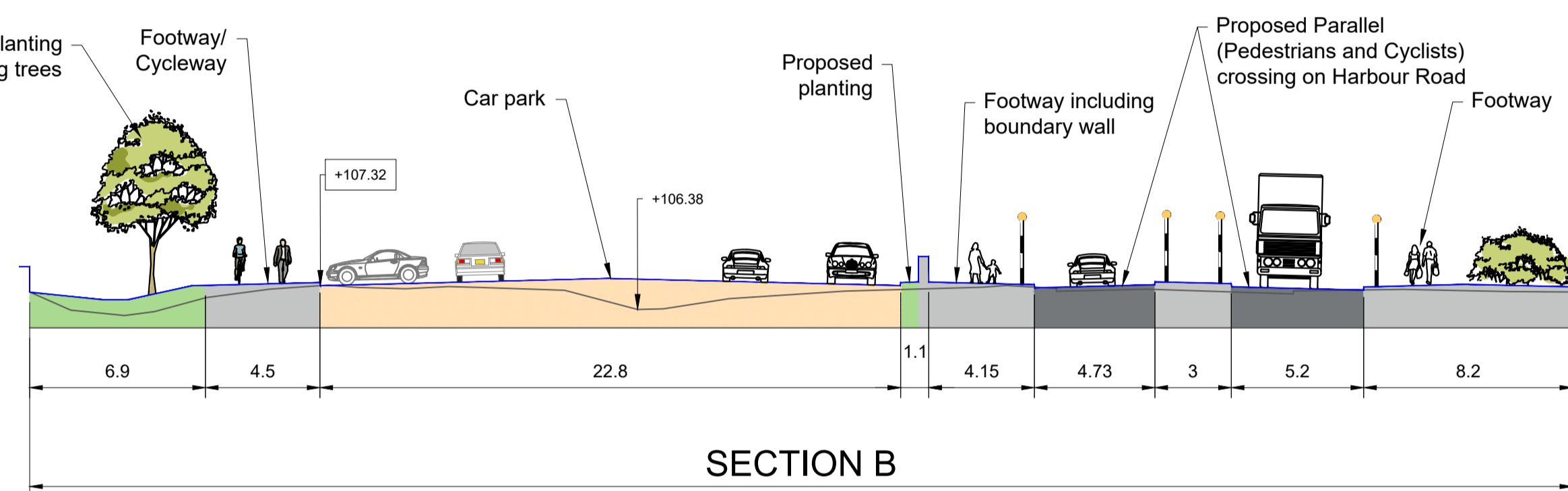
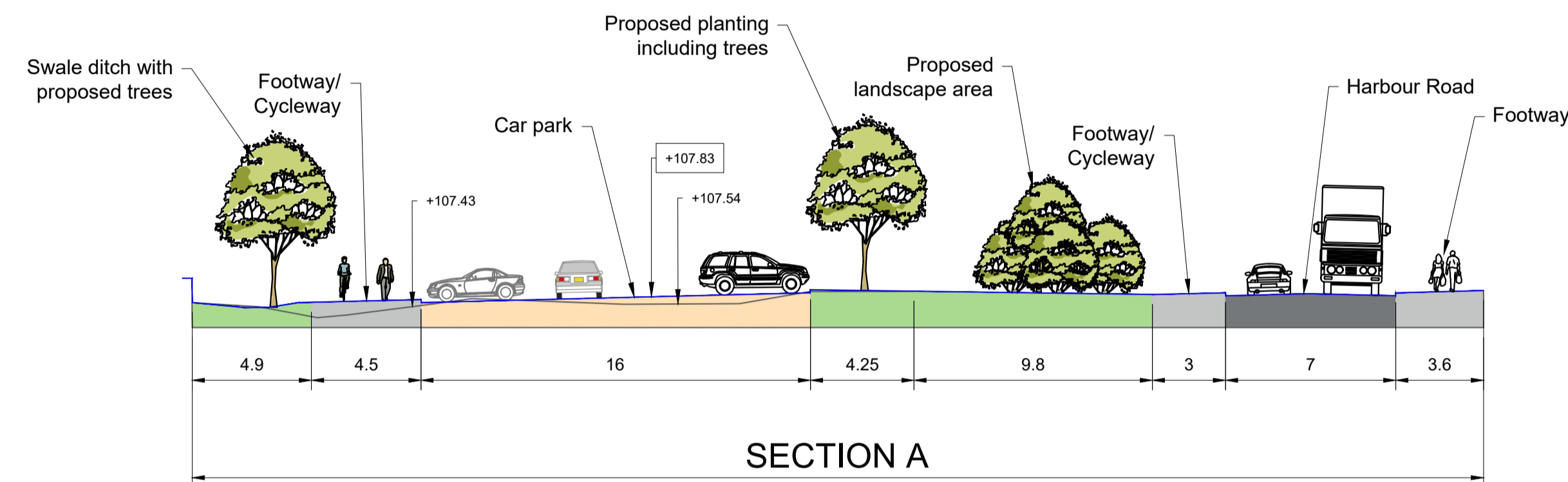
Revision: Version 3

Date: September 2021



Document Index

Version	Date	Status of Version	Document Index	Document Revision	Changes
1	19 November 2019	Application	467470.BQ.04.20-104 Rev B	-	-
			467470.BQ.04.20-219 Rev B	-	-
			467470.BQ.04.20-292 Rev B	-	-
			467470.BQ.04.20-410 Rev B	-	-
			467470.BQ.04.20-531 Rev B	-	-
			467470.BQ.04.20-630 Rev B	-	-
			467470.BQ.04.20-SK300-SK304 Rev H	-	-
			674946.BD.29.01-SK33 Rev A	-	-
			674946.BD.29.01-SK35-SK36 Rev A	-	-
2	16 February 2021		467470.BQ.04.20-104 Rev B	-	-
			467470.BQ.04.20-219 Rev B	-	-
			467470.BQ.04.20-292 Rev B	-	-
			467470.BQ.04.20-410 Rev B	-	-
			467470.BQ.04.20-531 Rev B	-	-
			467470.BQ.04.20-630 Rev B	-	-
			467470.BQ.04.20-SK300-SK304 Rev H	Rev I	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
			674946.BD.29.01-SK33 Rev A	-	-
			674946.BD.29.01-SK35-SK36 Rev A	-	Removed from set
3	20 September 2021		467470.BQ.04.20-104 Rev B	-	-
			467470.BQ.04.20-219 Rev B	-	-
			467470.BQ.04.20-292 Rev B	-	-
			467470.BQ.04.20-410 Rev B	-	-
			467470.BQ.04.20-531 Rev B	-	-
			467470.BQ.04.20-630 Rev B	-	-
			467470.BQ.04.20-SK300-SK304 Rev I	Rev K	Trinity Primary School Footbridge removed from scheme
			674946.BD.29.01-SK33 Rev A	-	-



NOTES:

1. Refer to drawing 467470.BQ.04.20-100 to 102 for section locations

KEY:

+115.34	Proposed Levels
+113.60	Existing Levels

B	OHP	ADL	ADL	10/10/2019	Station building outline and spot levels added
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

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Project
**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

Drawing

**PORTISHEAD STATION
CROSS SECTIONS**

Drawn by: OHP Date: 10/03/2019

Checked by: ADL Date: 25/03/2019

Approved by: ADL Date: 25/03/2019

Drawing No. Revision

467470.BQ.04.20-104

B

Drawing Scale: 1:200 @ A1 or 1:400 @ A3

Existing vegetation

Proposed planting

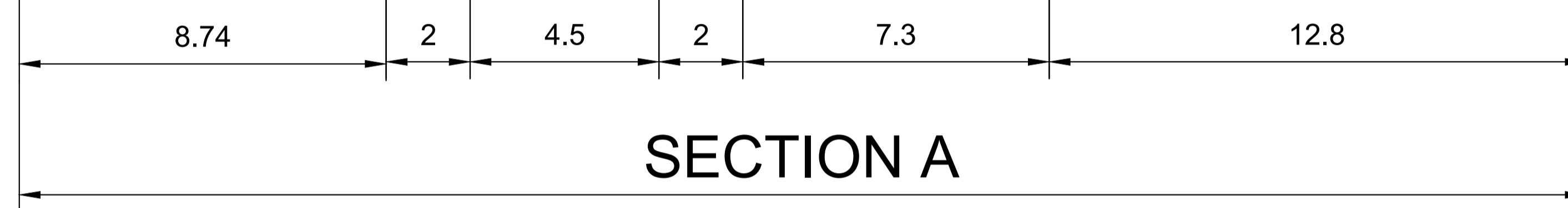
Network Rail and field access track

Proposed planting including trees

Area of field within the limits of deviation

Proposed temporary access track

+126.19



Proposed embankment with woodland planting

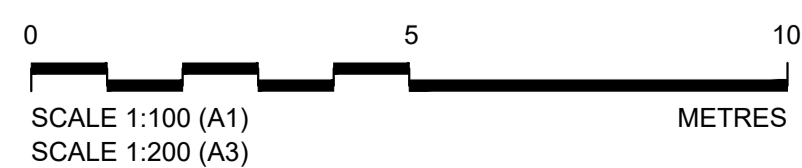
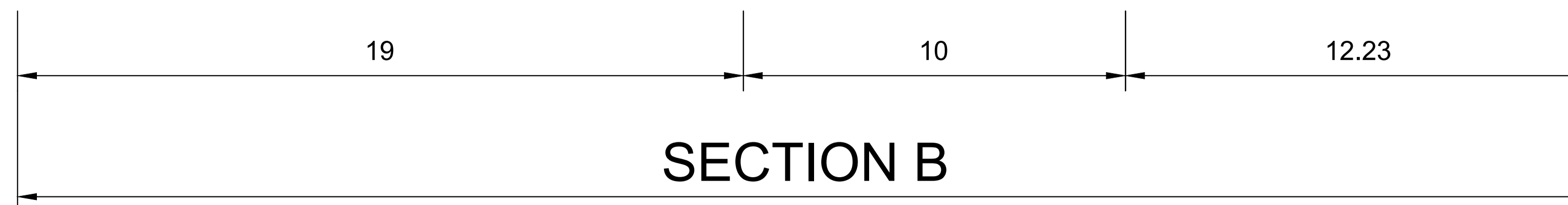
Existing lakeside trees

Network Rail access track

+115.34

+113.60

+111.56



NOTES:

1. Refer to drawing 467470.BQ.04.20-220 to 221 for section locations

KEY:

+115.34

Proposed Levels

+113.60

Existing Levels

B	OHP	ADL	ADL	02/10/2019	Minor amendments
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

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Project
PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)

Drawing

PILL TUNNEL EAST
CROSS SECTIONS

Drawn by: OHP Date: 20/03/2019

Checked by: ADL Date: 25/03/2019

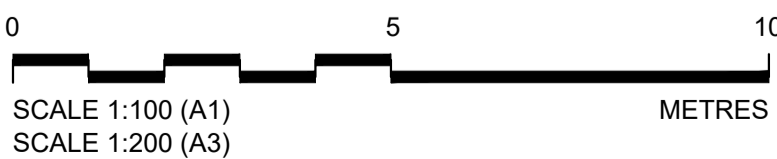
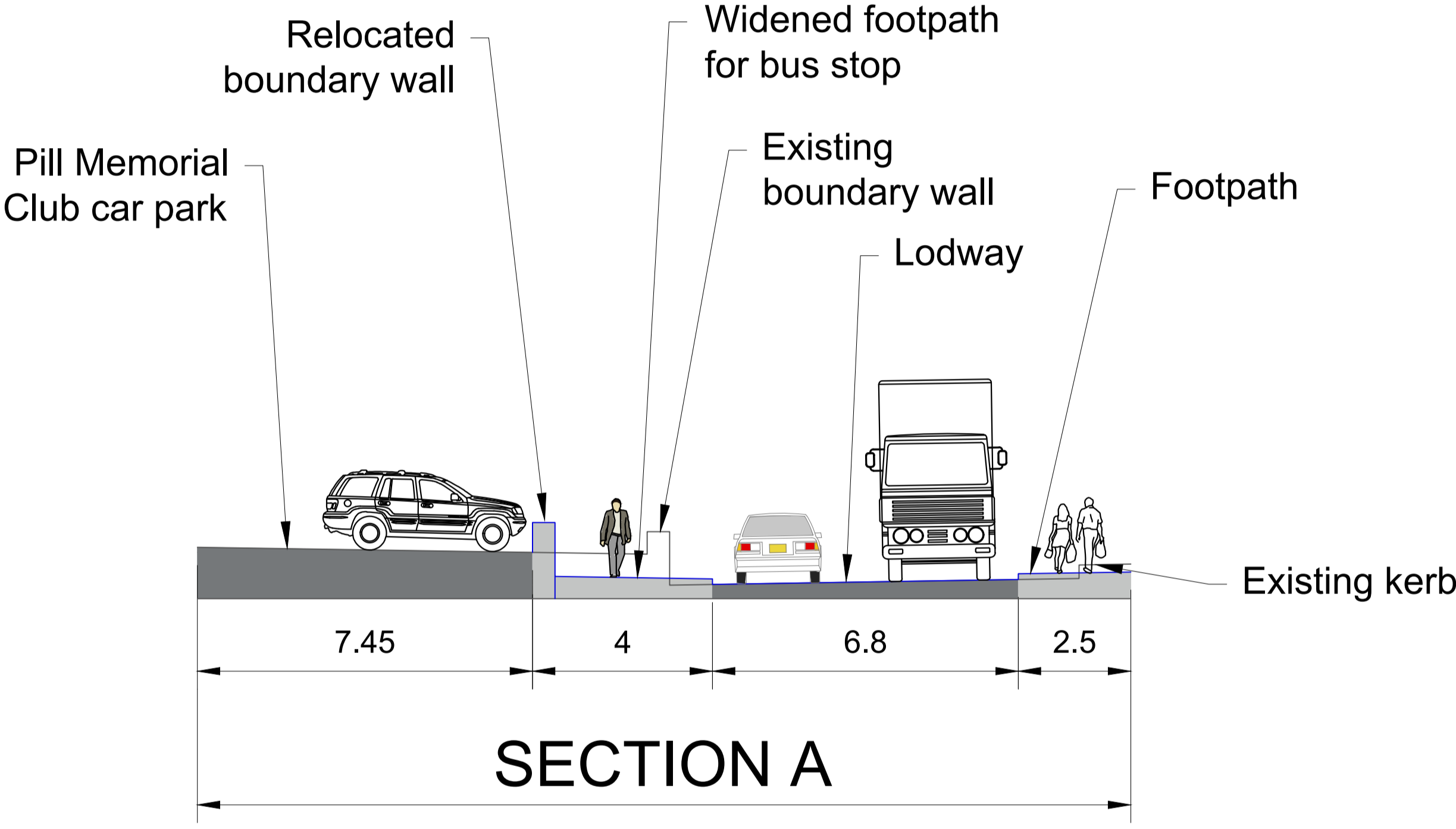
Approved by: ADL Date: 25/03/2019

Drawing No. Revision

467470.BQ.04.20-219

B

Drawing Scale: 1:100 @ A1 or 1:200 @ A3



- NOTES:
1. Refer to drawing 467470.BQ.04.20-290 to 291 for section locations
 2. Proposed footway and carriageway to match with existing levels except for localised adjustment at Pill Memorial Club boundary wall

B	OHP	ADL	ADL	10/10/2019	Minor amendments
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description



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Project

**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

Drawing

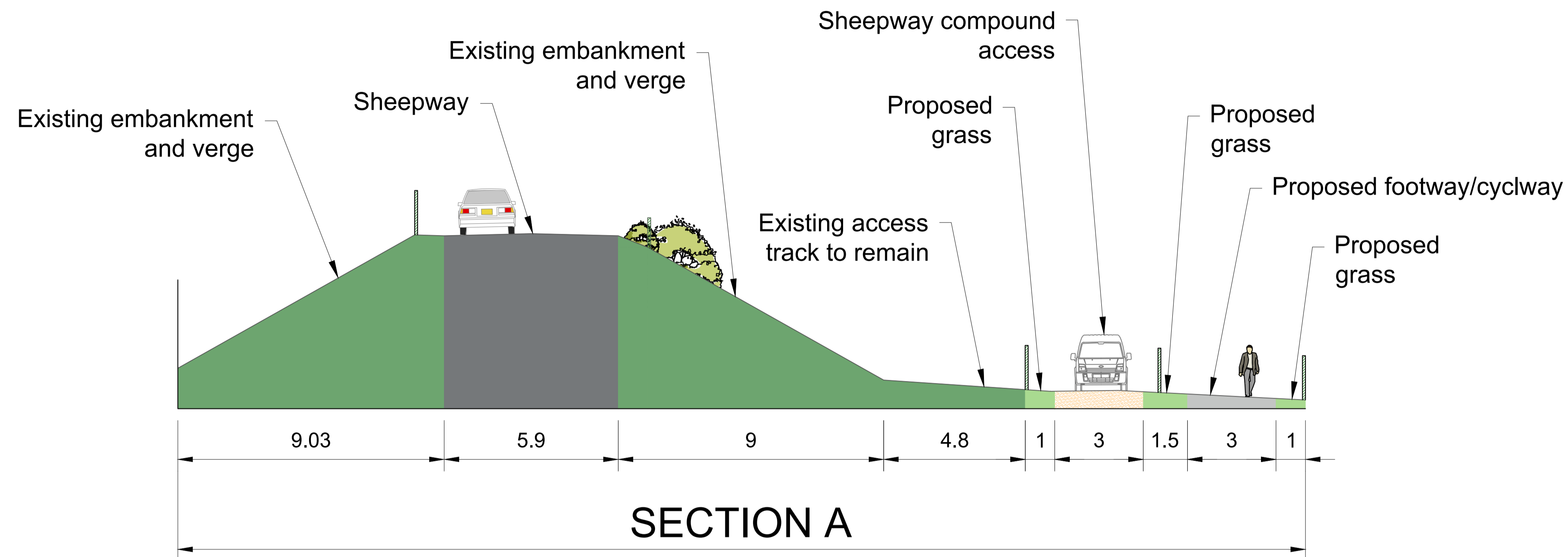
**PILL MEMORIAL CLUB
CROSS SECTION**

Drawn by: OHP	Date: 25/03/2019
Checked by: ADL	Date: 25/03/2019
Approved by: ADL	Date: 25/03/2019

Drawing No.	Revision
467470.BQ.04.20-292	B

Drawing Scale: 1:100 @ A1 or 1:200 @ A3

Drawings for north & south - 11/07/2019/467470.BQ.04.20-292/290, 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



- NOTES:
1. Refer to drawing 467470.BQ.04.20-400 to 401 for section locations
 2. Proposed access and footway/cycleway to match with existing levels

B	OHP	ADL	ADL	02/10/2019	Minor amendments
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

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Project
PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)

Drawing

SHEEPWAY
CROSS SECTIONS

Drawn by: OHP Date: 20/03/2019

Checked by: ADL Date: 25/03/2019

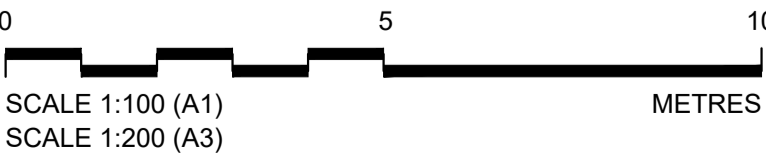
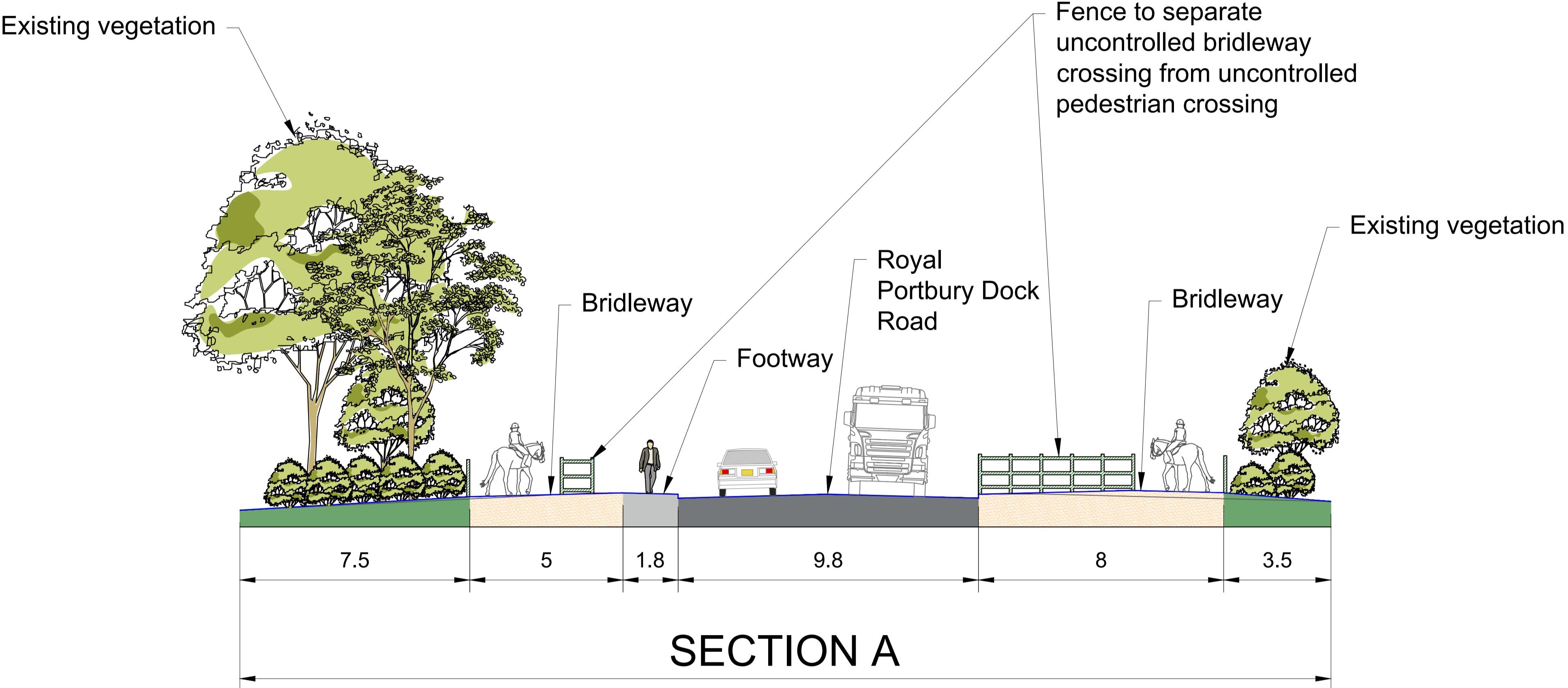
Approved by: ADL Date: 25/03/2019

Drawing No. Revision

467470.BQ.04.20-410 B

Drawing Scale: 1:100 @ A1 or 1:200 @ A3

0 5 10
SCALE 1:100 (A1)
SCALE 1:200 (A3)
METRES



- NOTES:
1. Refer to drawing 467470.BQ.04.20-530 for section locations
 2. Proposed access and footway/cycleway to match with existing levels except for localised adjustment at crossing point

B	OHP	ADL	ADL	02/10/2019	Minor amendments
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

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Project
**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

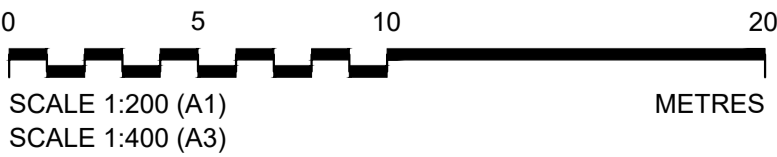
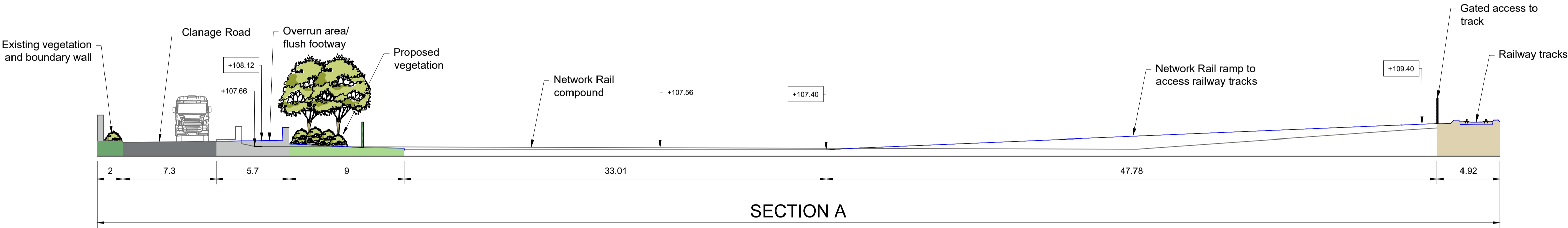
Drawing
**ROYAL PORTBURY DOCK ROAD
CROSS SECTIONS**

Drawn by: OHP	Date: 20/03/2019
Checked by: ADL	Date: 25/03/2019
Approved by: ADL	Date: 25/03/2019

Drawing No. 467470.BQ.04.20-531	Revision B
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Drawing Scale: 1:100 @ A1 or 1:200 @ A3

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- NOTES:
1. Refer to drawing 467470.BQ.04.20-621 for section locations
- KEY:
- | | |
|---------|-----------------|
| +115.34 | Proposed Levels |
| +113.60 | Existing Levels |

B	OHP	ADL	ADL	02/10/2019	Minor amendments
A	OHP	ADL	ADL	31/07/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

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CH

Project

PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)

Drawing

CLANAGE ROAD
CROSS SECTION

Drawn by: OHP

Date: 10/03/2019

Checked by: ADL

Date: 25/03/2019

Approved by: ADL

Date: 25/03/2019

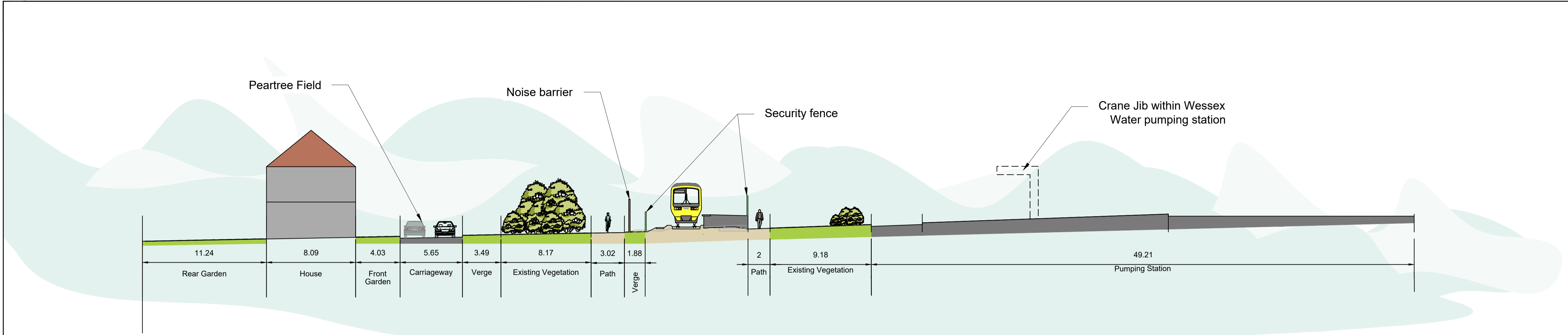
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467470.BQ.04.20-630

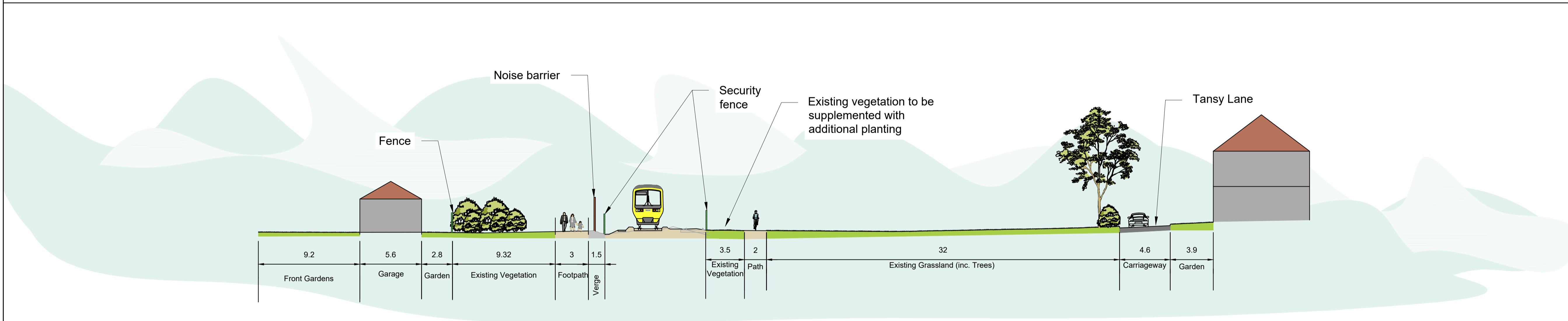
Revision

B

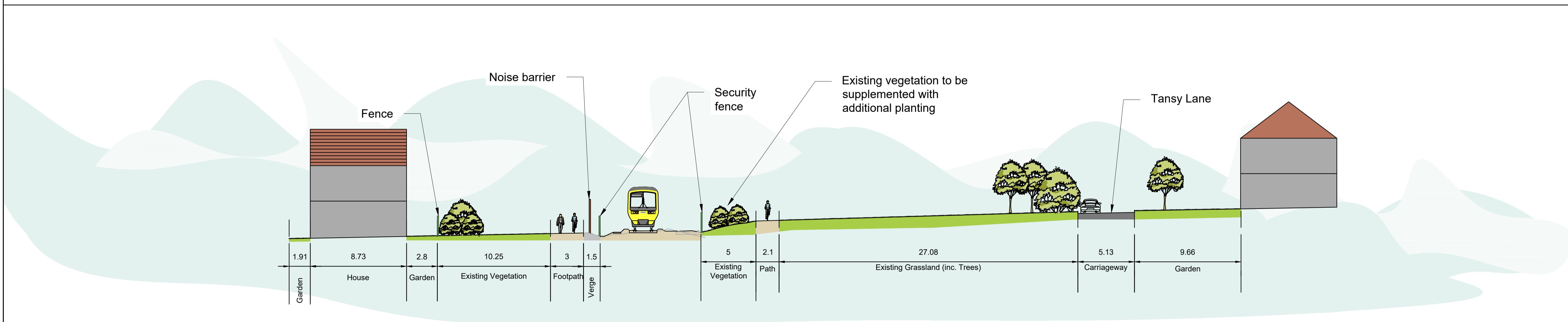
Drawing Scale: 1:200 @ A1 or 1:400 @ A3



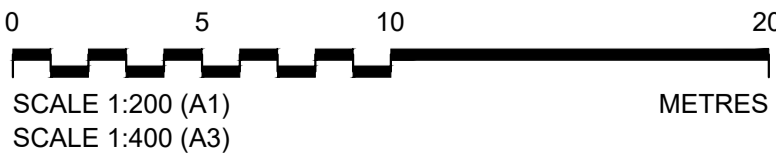
Section AA



Section AB



Section BB



- Notes:
1. All dimensions are in metres unless noted otherwise.
 2. The levels for the rail corridor are based upon a Topographical Survey dated September 2015.
 3. The levels beyond the Network Rail fence line have been derived from data captured using airborne RADAR technology that provides elevation point data every five metres with a vertical accuracy of +/-60cm - which is then subsequently interpolated. Therefore these levels should be used for contextual information only and are subject to confirmation.
 4. Refer to drawing 467470.BQ.04.20-SK304 for section locations.

K	OHP	ADL	ADL	31/08/2021	Tinsley Primary School Footbridge removed from the drawing
J	OHP	ADL	ADL	28/03/2021	Associated footpaths and landscaping revised
I	OHP	ADL	ADL	08/02/2021	Canals included on the drawing
H	OHP	ADL	ADL	31/10/2019	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
G	OHP	ADL	ADL	02/10/2019	Note amendments
F	OHP	ADL	ADL	31/07/2019	Note amendments
E	OHP	ADL	ADL	29/03/2019	Further location detail added to sections
D	OHP	ADL	ADL	07/01/2019	Minor amendments
C	OHP	ADL	ADL	27/06/2018	Minor amendments
B	OHP	ADL	ADL	10/04/2018	Minor amendments
A	OHP	ADL	ADL	04/04/2018	Block of Rail Class 166 Turbo added to each section
Rev	By	Chkd	Apprvd	Date	Description

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Project
**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

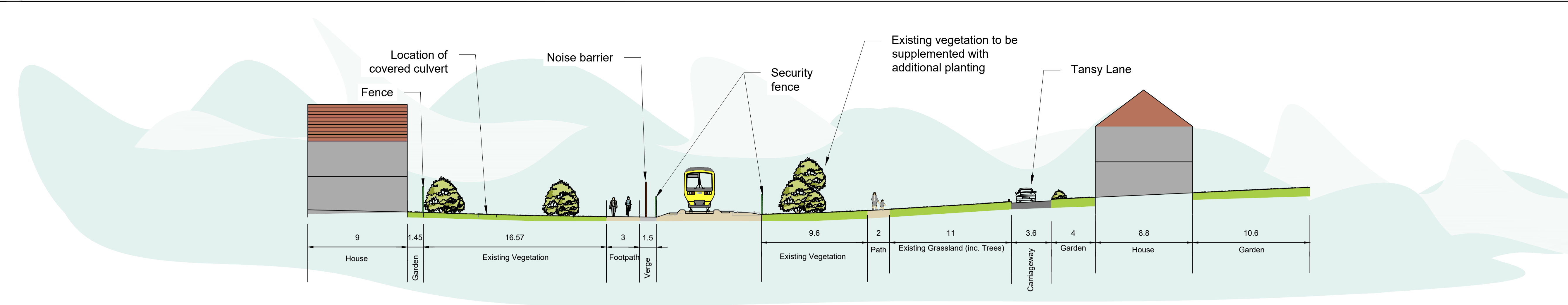
Drawing
TYPICAL SECTIONS
SHEET 1 OF 4

Drawn by: OHP	Date: 13/03/2018
Checked by: ADL	Date: 27/03/2018
Approved by: ADL	Date: 27/03/2018

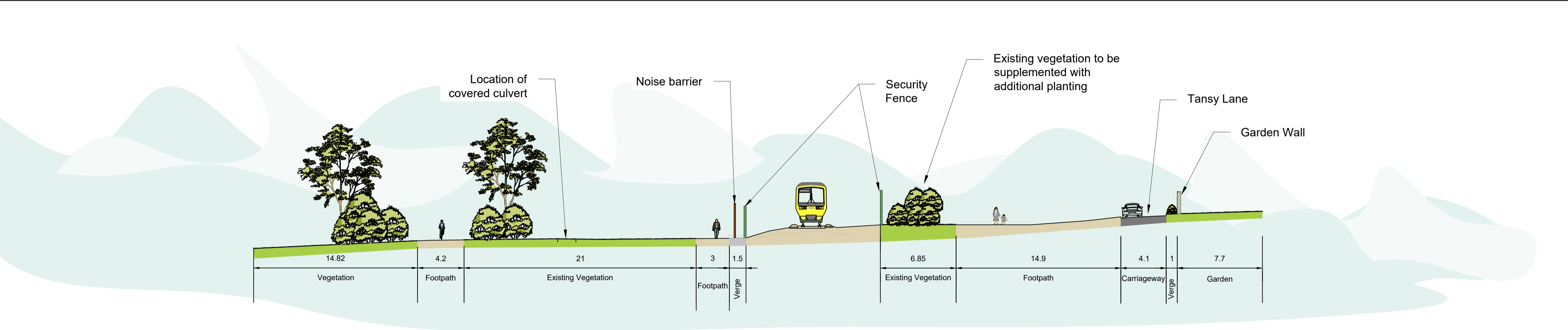
Drawing No. 467470.BQ.04.20-SK300	Revision K
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Drawing Scale: 1:200 @ A1 or 1:400 @ A3

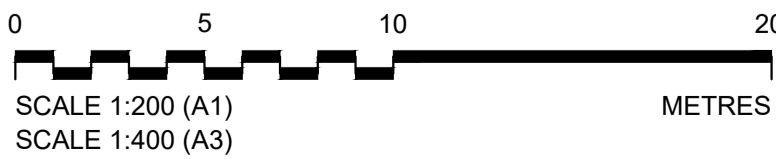
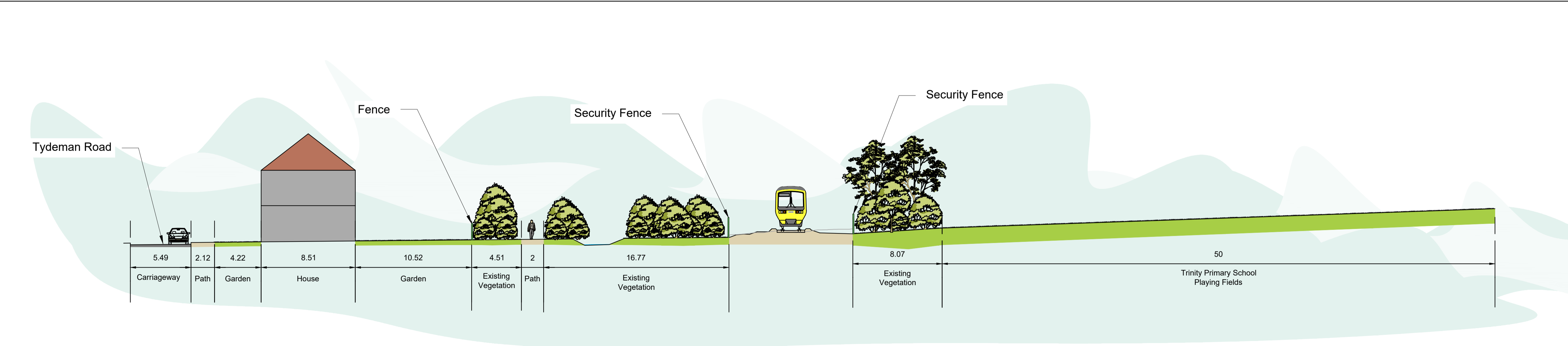
Drawn: 13/03/2018, Checked: 27/03/2018, Approved: 27/03/2018, Project: PORTISHEAD BRANCH LINE (METROWEST PHASE 1), Drawing: TYPICAL SECTIONS, SHEET 1 OF 4, Drawing No: 467470.BQ.04.20-SK300, Revision: K



Section BC(1)



Section BC(2)



Section CC

- Notes:
1. All dimensions are in metres unless noted otherwise.
 2. The levels for the rail corridor are based upon a Topographical Survey dated September 2015.
 3. The levels beyond the Network Rail fence line have been derived from data captured using airborne RADAR technology that provides elevation point data every five metres with a vertical accuracy of +/-60cm - which is then subsequently interpolated. Therefore these levels should be used for contextual information only and are subject to confirmation.
 4. Refer to drawing 467470.BQ.04.20-SK304 for section locations.

K	OHP	ADL	ADL	31/08/2021	Trinity Primary School Footbridge removed from the drawing
J	OHP	ADL	ADL	28/03/2021	Associated footpaths and landscaping revised
I	OHP	ADL	ADL	08/02/2021	Carrel included on the drawing
H	OHP	ADL	ADL	31/10/2019	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
G	OHP	ADL	ADL	02/10/2019	Note amendments
F	OHP	ADL	ADL	31/07/2019	Note amendments
E	OHP	ADL	ADL	29/03/2019	Further location detail added to sections
D	OHP	ADL	ADL	07/01/2019	Minor amendments
C	OHP	ADL	ADL	27/06/2018	Minor amendments
B	OHP	ADL	ADL	10/04/2018	Minor amendments
A	OHP	ADL	ADL	04/04/2018	Block of Rail Class 186 Turbo added to each section
Rev	By	Chkd	Apprvd	Date	Description

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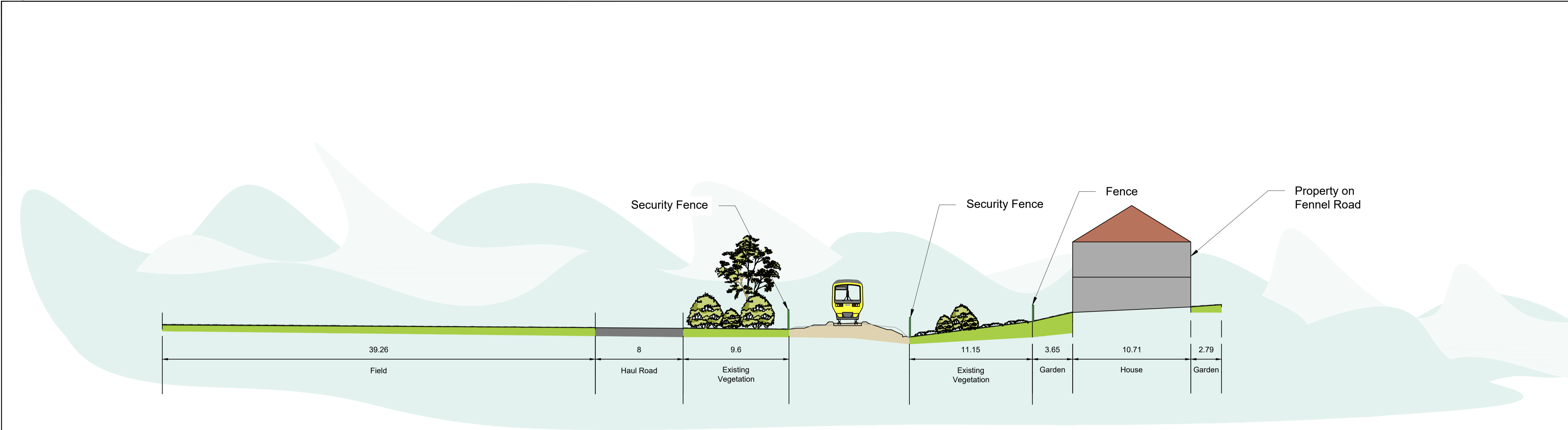
Project: **PORTISHEAD BRANCH LINE (METROWEST PHASE 1)**

Drawing: **TYPICAL SECTIONS**
SHEET 2 OF 4

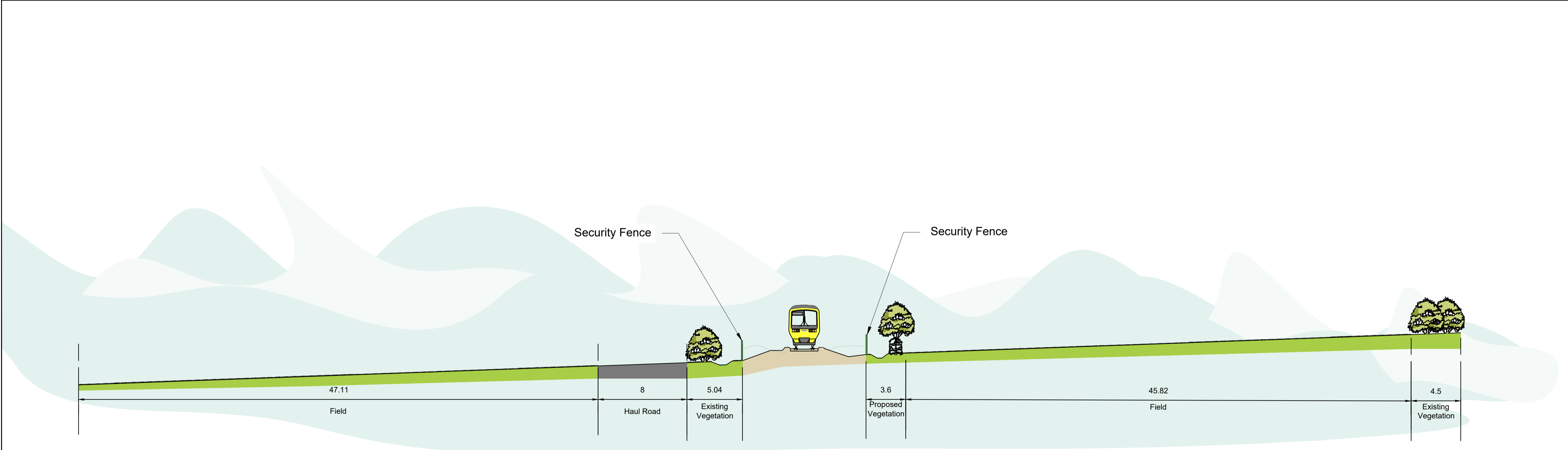
Drawn by: OHP Date: 13/03/2018
Checked by: ADL Date: 27/03/2018
Approved by: ADL Date: 27/03/2018

Drawing No. **467470.BQ.04.20-SK301** Revision **K**

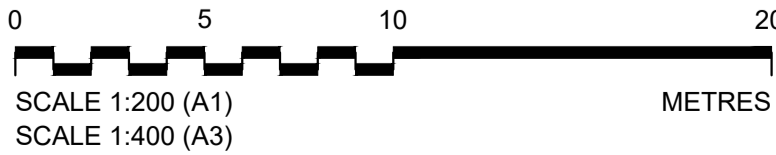
Drawing Scale: 1:200 @ A1 or 1:400 @ A3



Section DD



Section EE



- Notes:
- All dimensions are in metres unless noted otherwise.
 - The levels for the rail corridor are based upon a Topographical Survey dated September 2015.
 - The levels beyond the Network Rail fence line have been derived from data captured using airborne RADAR technology that provides elevation point data every five metres with a vertical accuracy of +/-60cm - which is then subsequently interpolated. Therefore these levels should be used for contextual information only and are subject to confirmation.
 - Refer to drawing 467470.BQ.04.20-SK304 for section locations.

K	OHP	ADL	ADL	31/08/2021	Totally Primary School Footbridge removed from the drawing
J	OHP	ADL	ADL	28/03/2021	Associated footpaths and landscaping revised
I	OHP	ADL	ADL	08/02/2021	Canals included on the drawing
H	OHP	ADL	ADL	31/10/2019	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
G	OHP	ADL	ADL	02/10/2019	Note amendments
F	OHP	ADL	ADL	31/07/2019	Further location detail added to sections
E	OHP	ADL	ADL	29/03/2019	Minor amendments
D	OHP	ADL	ADL	07/01/2019	Minor amendments
C	OHP	ADL	ADL	27/06/2018	Minor amendments
B	OHP	ADL	ADL	10/04/2018	Minor amendments
A	OHP	ADL	ADL	04/04/2018	Block of Rail Class 186 Turbo added to each section
Rev	By	Chkd	Apprvd	Date	Description

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Project
**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

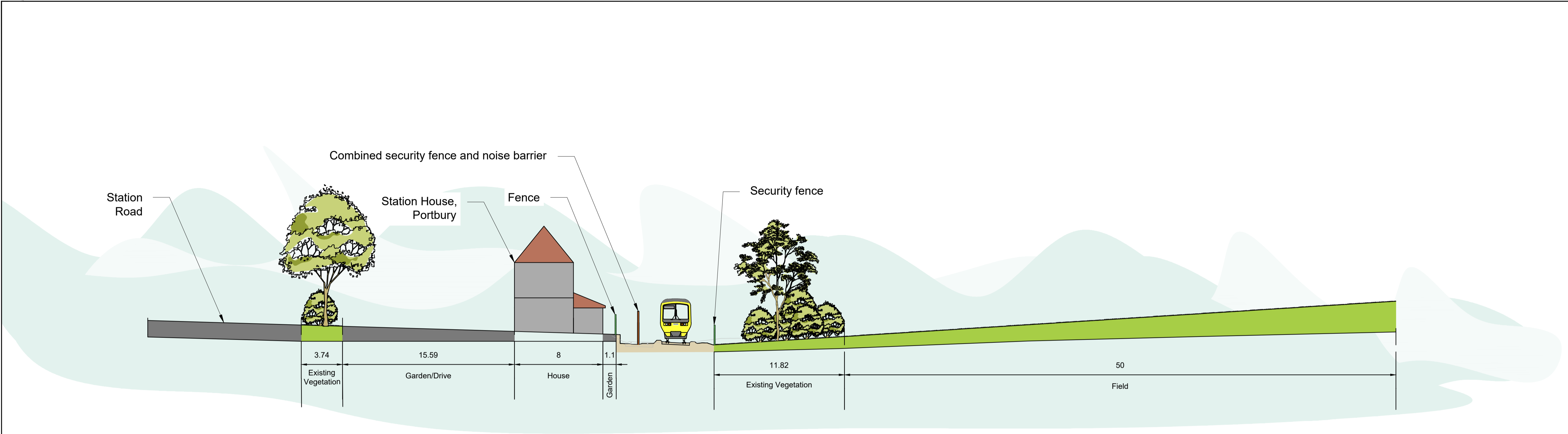
Drawing
TYPICAL SECTIONS
SHEET 3 OF 4

Drawn by: OHP	Date: 13/03/2018
Checked by: ADL	Date: 27/03/2018
Approved by: ADL	Date: 27/03/2018

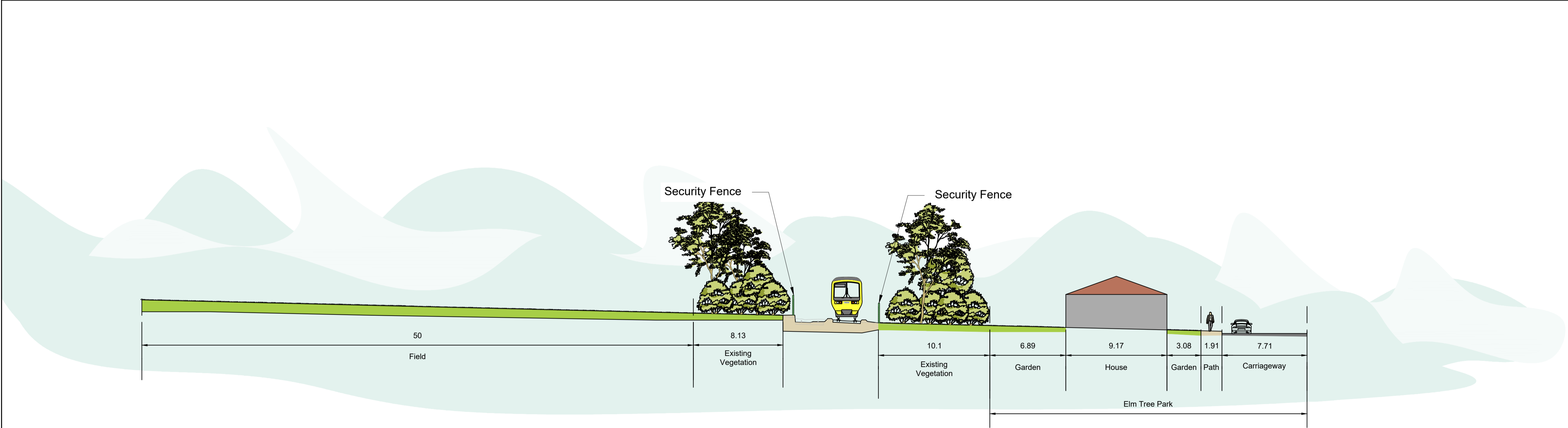
Drawing No. 467470.BQ.04.20-SK302	Revision K
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Drawing Scale: 1:200 @ A1 or 1:400 @ A3

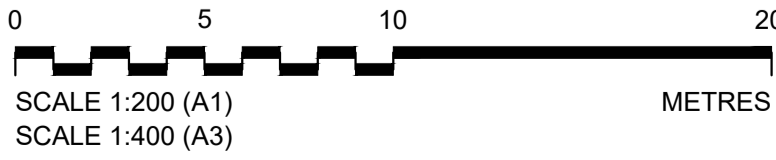
Drawn: K Hill, Checked: K Hill, Approved: K Hill, Date: 27/03/2018, Project: PORTISHEAD BRANCH LINE (METROWEST PHASE 1), Drawing: 467470.BQ.04.20-SK302, Scale: 1:200 @ A1 or 1:400 @ A3



Section FF



Section GG



- Notes:
- All dimensions are in metres unless noted otherwise.
 - The levels for the rail corridor are based upon a Topographical Survey dated September 2015.
 - The levels beyond the Network Rail fence line have been derived from data captured using airborne RADAR technology that provides elevation point data every five metres with a vertical accuracy of +/-60cm - which is then subsequently interpolated. Therefore these levels should be used for contextual information only and are subject to confirmation.
 - Refer to drawing 467470.BQ.04.20-SK304 for section locations.

K	OHP	ADL	ADL	31/08/2021	Tivoli Primary School Footbridge removed from the drawing
J	OHP	ADL	ADL	28/03/2021	Associated footpaths and landscaping revised
I	OHP	ADL	ADL	08/02/2021	Canals included on the drawing
H	OHP	ADL	ADL	31/10/2019	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
G	OHP	ADL	ADL	02/10/2019	Note amendments
F	OHP	ADL	ADL	31/07/2019	Further location detail added to sections
E	OHP	ADL	ADL	29/03/2019	Minor amendments
D	OHP	ADL	ADL	07/01/2019	Minor amendments
C	OHP	ADL	ADL	27/06/2018	Minor amendments
B	OHP	ADL	ADL	10/04/2018	Minor amendments
A	OHP	ADL	ADL	04/04/2018	Block of Rail Class 166 Turbo added to each section
Rev	By	Chkd	Apprvd	Date	Description

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Project
**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

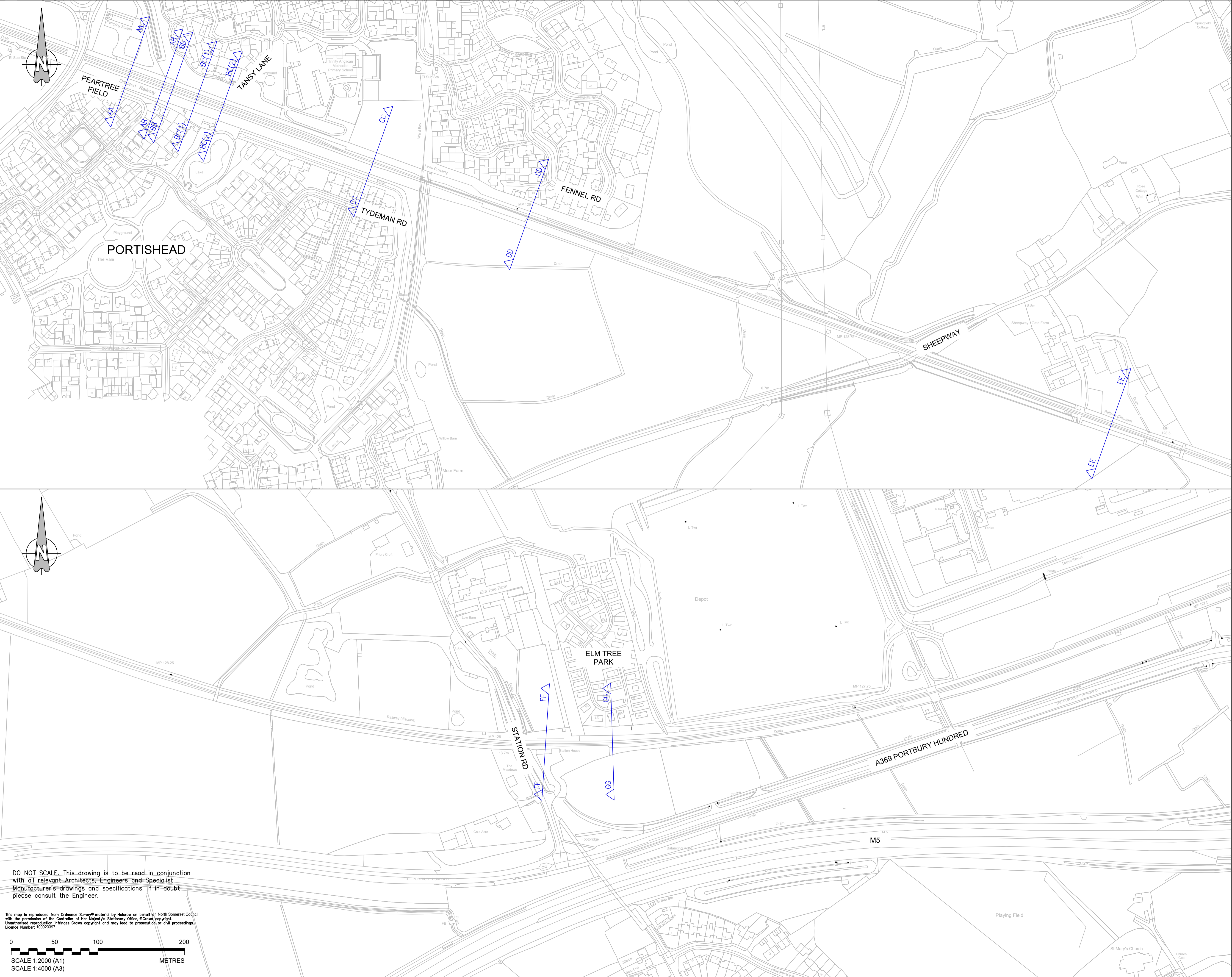
Drawing
TYPICAL SECTIONS
SHEET 4 OF 4

Drawn by: OHP	Date: 13/03/2018
Checked by: ADL	Date: 27/03/2018
Approved by: ADL	Date: 27/03/2018

Drawing No. 467470.BQ.04.20-SK303	Revision K
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Drawing Scale: 1:200 @ A1 or 1:400 @ A3

Drawn: K Hill, 13/03/2018. Checked: ADL, 27/03/2018. Approved: ADL, 27/03/2018. Project: PORTISHEAD BRANCH LINE (METROWEST PHASE 1). Drawing: 467470.BQ.04.20-SK303. Sheet: 4 OF 4.



- Notes:
- All dimensions are in metres unless noted otherwise.
 - The levels for the rail corridor are based upon a Topographical Survey dated September 2015.
 - The levels beyond the Network Rail fence line have been derived from data captured using airborne RADAR technology that provides elevation point data every five metres with a vertical accuracy of +/-60cm - which is then subsequently interpolated. Therefore these levels should be used for contextual information only and are subject to confirmation.

K	OHP	ADL	ADL	31/08/2021	Trinity Primary School Footbridge removed from the drawing
J	OHP	ADL	ADL	28/03/2021	Associated footpaths and landscaping revised
I	OHP	ADL	ADL		Caveat included on the drawing
H	OHP	ADL	ADL	08/02/2021	Sections AB, BC(1) & BC(2) added to set & minor amendments to AA & CC
G	OHP	ADL	ADL	02/10/2019	Note amendments
F	OHP	ADL	ADL	02/10/2019	Note amendments
E	OHP	ADL	ADL	31/07/2019	Further location detail added to sections
D	OHP	ADL	ADL	29/03/2019	Minor amendments
C	OHP	ADL	ADL	07/01/2019	Minor amendments
B	OHP	ADL	ADL	27/06/2018	Minor amendments
A	OHP	ADL	ADL	10/04/2018	Block of Rail Class 166 Turbo added to each section
Rev	By	Chkd	Apprvd	Date	Description

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Project

**PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)**

Drawing

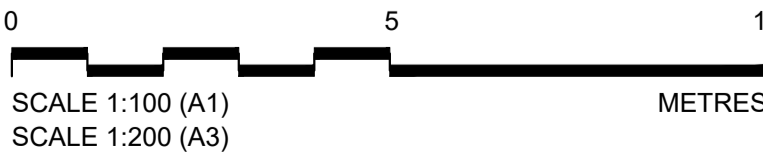
**TYPICAL SECTIONS
LOCATION PLAN**

Drawn by: OHP	Date: 04/04/2018
Checked by: ADL	Date: 04/04/2018
Approved by: ADL	Date: 04/04/2018

Drawing No.	Revision
467470.BQ.04.20-SK304	K

Drawing Scale: 1:2000 @ A1 or 1:4000 @ A3

1. Refer to drawing 674946.BD.29.01-SK31 for section locations



A	CHP	ADL	ADL	10/10/2019	Minor amendments
Rev	By	Chkd	Apprvd	Date	Description

travelwest 

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Project

PORTISHEAD BRANCH LINE
(METROWEST PHASE 1)

Drawing

WINTERSTOKE ROAD CROSS SECTION

Drawn by: OHP Date: 20/03/2019

Checked by: ADL Date: 25/03/2019

Approved by: ADL Date: 25/03/2019

Drawing No.	Revision
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674946.BD.29.01-SK33	A
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Drawing Scale: 1:100 @ A1 or 1:200 @ A3