Σ Sigma Γραφείο Υδατικών και Περιβαλλοντικών Μελετών
Κορίνθου 293, ΠΑΤΡΑ, τ.κ. 262 21, τηλ: 2610222616, fax: 2610225259, e-mail: info@sigmaeng.gr

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|---|---|
| Φορέας: | ΔΕΥΑ ΑΙΓΙΑΛΕΙΑΣ |
| Μελέτη: | ΚΑΤΑΣΚΕΥΗ ΕΓΚΑΤΑΣΤΑΣΕΩΝ ΕΠΕΞΕΡΓΑΣΙΑΣ ΝΕΡΟΥ ΚΑΙ ΚΕΝΤΡΙΚΩΝ ΑΓΩΓΩΝ ΜΕΤΑΦΟΡΑΣ ΝΕΡΟΥ ΔΗΜΟΥ ΑΙΓΙΑΛΕΙΑΣ<br>***ΕΡΓΑ ΜΕΤΑΦΟΡΑΣ ΝΕΡΟΥ*** |
| Φάση: | ΟΡΙΣΤΙΚΗ ΜΕΛΕΤΗ |

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|---|---|---|
| Σχέδιο: | ΜΗΚΟΤΟΜΗ ΚΕΝΤΡΙΚΟΥ ΑΓΩΓΟΥ ΜΕΤΑΦΟΡΑΣ ΝΕΡΟΥ ΤΜΗΜΑ 4 | Αρ.Σχ.<br>3.4 |
| | | Κλίμακα<br>1 :1.000/1:100 |

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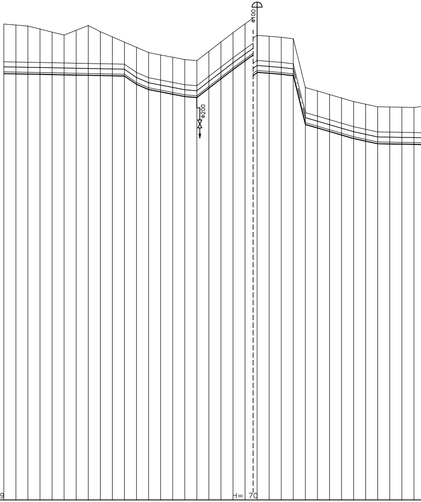
| | Ημερομηνία:<br>ΦΕΒΡΟΥΑΡΙΟΣ 2019 |

| | | |
|---|---|---|
| Ο Μελετητής: | ΣΠΥΡΟΣ ΦΡΑΓΚΟΣ | «ΣΙΓΜΑ-Γραφείο Τεχνικών Περιβαλλοντικών και Υποστηρικτικών Μελετών Ανώνυμη Εταιρεία»<br>Α.Μ.Α.Ε. [illegible] Α.Φ.Μ. 094365418<br>Δ.Ο.Υ. Β' Πατρών ΤΗΛ. 2610-278635<br>Κορίνθου 291-293 - Πάτρα Τ.Κ. 262 21 |
| Η Επιβλέπουσα: | ΙΟΥΛΙΑ ΠΟΥΛΙΟΠΟΥΛΟΥ | Ψηφιακά υπογεγραμμένο από IOULIA POULIOPOULOU<br>Ημερομηνία: 2019.03.04 13:19:31 EET |
| Θεωρηθηκε, ο Προϊστάμενος: | ΠΑΝΑΓΙΩΤΗΣ ΝΙΚΟΛΟΠΟΥΛΟΣ | Ψηφιακά υπογεγραμμένο από PANAGIOTIS NIKOLOPOULOS<br>Ημερομηνία: 2019.03.04 12:01:56 EET |

Εγκρίσεις:

## ΑΓΩΓΟΣ ΜΕΤΑΦΟΡΑΣ ΤΜΗΜΑ 4



ΕΠΙΠΕΔΟ ΑΝΑΦΟΡΑΣ H= 69 H= 70

| ΑΡΙΘΜΗΣΗ ΚΟΜΒΩΝ | X128 | X128.1 | X128.2 | X128.3 | X128.4 | X128.5 | X128.6 | X129 | X129.1 | X129.2 | X129.3 | X129.4 | X129.5 | X129.6 | X129.7 | X129.8 | X130 | X130.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ΧΙΛΙΟΜΕΤΡΗΣΗ | | | | | | | | | | | | | | | | | 4+600 | |
| ΑΠΟΣΤΑΣΕΙΣ ΑΠΟ ΤΗΝ ΑΡΧΗ (μ) | 504.00 | 510.00 | 516.00 | 522.00 | 528.00 | 534.00 | 540.00 | 546.00 | 552.00 | 558.00 | 564.00 | 570.00 | 576.00 | 582.00 | 588.00 | 594.00 | 600.00 | 606.00 |
| ΑΠΟΣΤΑΣΕΙΣ ΜΕΤΑΞΥ (μ) | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| ΥΨΟΜΕΤΡΑ ΕΔΑΦΟΥΣ (μ) | 92.70 | 92.65 | 92.60 | 92.45 | 92.30 | 92.15 | 92.39 | 92.63 | 92.32 | 92.06 | 91.80 | 91.54 | 91.28 | 91.16 | 91.05 | 90.93 | 90.88 | 91.34 |
| ΥΨΟΜΕΤΡΑ ΑΞΟΝΑ ΑΓΩΓΟΥ (μ) | 90.57 | 90.56 | 90.55 | 90.54 | 90.52 | 90.51 | 90.50 | 90.49 | 90.48 | 90.46 | 90.45 | 90.04 | 89.78 | 89.66 | 89.55 | 89.43 | 89.38 | 89.84 |
| ΥΨΟΜΕΤΡΑ ΠΥΘΜ. ΟΡΥΓΜΑΤΟΣ (μ) | 90.22 | 90.21 | 90.20 | 90.19 | 90.17 | 90.16 | 90.15 | 90.14 | 90.13 | 90.11 | 90.10 | 89.69 | 89.43 | 89.31 | 89.20 | 89.08 | 89.03 | 89.49 |
| ΒΑΘΟΣ ΟΡΥΓΜΑΤΟΣ (μ) | 2.48 | 2.44 | 2.40 | 2.26 | 2.13 | 1.99 | 2.24 | 2.49 | 2.19 | 1.95 | 1.70 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |

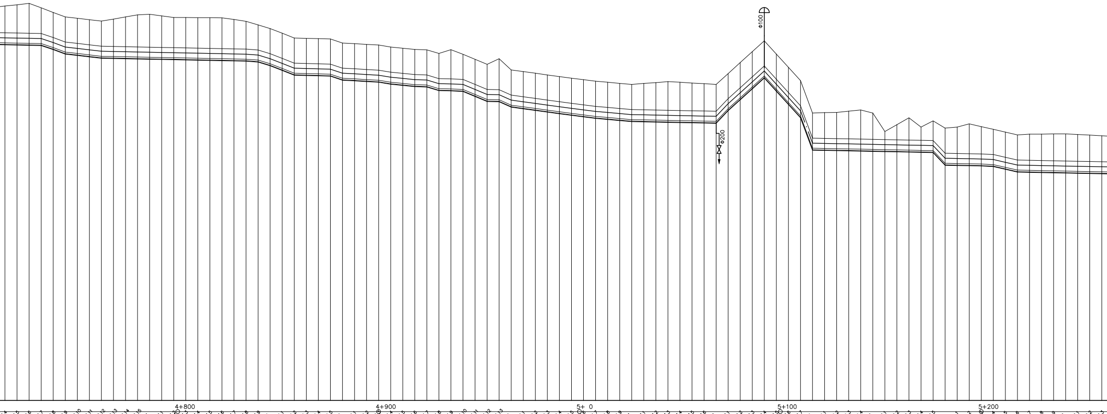
| ΑΡΙΘΜΗΣΗ ΚΟΜΒΩΝ | X130.2 | X130.3 | X130.4 | X130.5 | X130.6 | X130.7 | X131 | X131.1 | X131.2 | X131.3 | X131.4 | X131.5 | X131.6 | X132 | X132.1 | X132.2 | X132.3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ΧΙΛΙΟΜΕΤΡΗΣΗ | | | | | | | | | | | | | | | | 4+700 | |
| ΑΠΟΣΤΑΣΕΙΣ ΑΠΟ ΤΗΝ ΑΡΧΗ (μ) | 612.00 | 618.00 | 624.00 | 630.00 | 636.00 | 642.00 | 648.00 | 654.00 | 660.00 | 666.00 | 672.00 | 678.00 | 684.00 | 690.00 | 696.00 | 702.00 | 708.00 |
| ΑΠΟΣΤΑΣΕΙΣ ΜΕΤΑΞΥ (μ) | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| ΥΨΟΜΕΤΡΑ ΕΔΑΦΟΥΣ (μ) | 91.81 | 92.27 | 92.71 | 93.14 | 93.09 | 93.04 | 92.97 | 90.54 | 90.37 | 90.19 | 90.02 | 89.84 | 89.71 | 89.58 | 89.57 | 89.56 | 89.55 |
| ΥΨΟΜΕΤΡΑ ΑΞΟΝΑ ΑΓΩΓΟΥ (μ) | 90.31 | 90.77 | 91.20 | 91.64 | 91.59 | 91.54 | 91.47 | 89.04 | 88.86 | 88.69 | 88.52 | 88.34 | 88.21 | 88.08 | 88.07 | 88.06 | 88.05 |
| ΥΨΟΜΕΤΡΑ ΠΥΘΜ. ΟΡΥΓΜΑΤΟΣ (μ) | 89.96 | 90.42 | 90.86 | 91.29 | 91.24 | 91.19 | 91.12 | 88.69 | 88.52 | 88.34 | 88.17 | 87.99 | 87.86 | 87.73 | 87.72 | 87.71 | 87.70 |
| ΒΑΘΟΣ ΟΡΥΓΜΑΤΟΣ (μ) | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.86 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |

ΔΙΑΜΕΤΡΟΣ (χλστ) και ΜΗΚΟΣ (μ) ΣΩΛΗΝΑ

ΚΛΙΣΕΙΣ ΑΞΟΝΑ ΣΩΛΗΝΑ (ο/οο): – 2.00 | – 68.67 | 43.33 | – 19.50 | – 8.33 | 77.17 | 72.50 | – 8.33 | – 11.67 | 405.00 | – 29.17 | – 21.67 | – 1.67

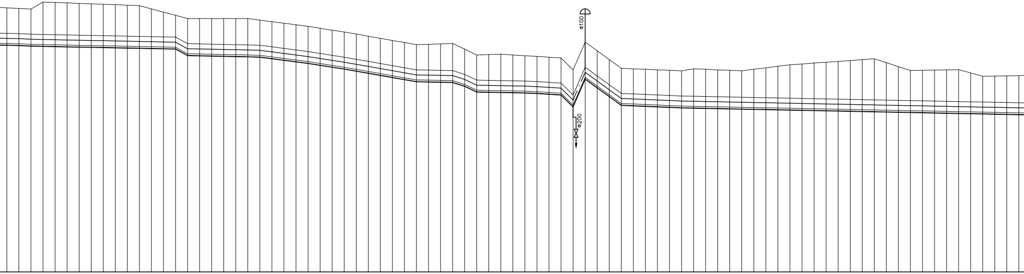
ΥΨΟΜΕΤΡΑ ΠΙΕΖΟΜ. ΓΡΑΜΜΗΣ (μ)

ΠΑΡΟΧΗ ΥΠΟΛΟΓΙΣΜΟΥ (λ/δλ)
ΤΑΧΥΤΗΤΑ v (μ/δλ)
ΚΛΙΣΗ ΠΙΕΖΟΜ. ΓΡΑΜΜΗΣ i (ο/οο)



| | | | | | | |
|---|---|---|---|---|---|---|
| X132.5 | 714.00 | 6.00 | 89.62 | 88.04 | 87.69 | 1.93 |
| X132.6 | 720.00 | 6.00 | 89.68 | 88.03 | 87.68 | 2.00 |
| X132.7 | 726.00 | 6.00 | 89.75 | 88.01 | 87.66 | 2.09 |
| X132.8 | 732.00 | 6.00 | 89.53 | 88.00 | 87.65 | 1.88 |
| X132.9 | 738.00 | 6.00 | 89.30 | 87.80 | 87.45 | 1.85 |
| X132.10 | 744.00 | 6.00 | 89.08 | 87.58 | 87.23 | 1.85 |
| X132.11 | 750.00 | 6.00 | 89.01 | 87.51 | 87.16 | 1.85 |
| X132.12 | 756.00 | 6.00 | 88.94 | 87.44 | 87.09 | 1.85 |
| X132.13 | 762.00 | 6.00 | 88.87 | 87.37 | 87.02 | 1.85 |
| X132.14 | 768.00 | 6.00 | 88.97 | 87.36 | 87.01 | 1.96 |
| X132.15 | 774.00 | 6.00 | 89.08 | 87.35 | 87.00 | 2.08 |
| X133 | 780.00 | 6.00 | 89.18 | 87.33 | 86.98 | 2.20 |
| X133.1 | 786.00 | 6.00 | 89.21 | 87.32 | 86.97 | 2.24 |
| X133.2 | 792.00 | 6.00 | 89.13 | 87.31 | 86.96 | 2.17 |
| X133.3 | 798.00 | 6.00 | 89.05 | 87.30 | 86.95 | 2.10 |
| X133.4 | 804.00 | 6.00 | 89.05 | 87.29 | 86.94 | 2.11 |
| X133.5 | 810.00 | 6.00 | 89.04 | 87.27 | 86.92 | 2.12 |
| X133.6 | 816.00 | 6.00 | 89.04 | 87.26 | 86.91 | 2.13 |
| X133.7 | 822.00 | 6.00 | 89.03 | 87.25 | 86.90 | 2.13 |
| X133.8 | 828.00 | 6.00 | 88.95 | 87.24 | 86.89 | 2.06 |
| X133.9 | 834.00 | 6.00 | 88.86 | 87.23 | 86.88 | 1.98 |
| X134 | 840.00 | 6.00 | 88.68 | 87.18 | 86.83 | 1.85 |
| X134.1 | 846.00 | 6.00 | 88.50 | 87.00 | 86.65 | 1.85 |
| X134.2 | 852.00 | 6.00 | 88.27 | 86.77 | 86.42 | 1.85 |
| X134.3 | 858.00 | 6.00 | 88.03 | 86.53 | 86.18 | 1.85 |
| X134.4 | 864.00 | 6.00 | 88.01 | 86.51 | 86.16 | 1.85 |
| X134.5 | 870.00 | 6.00 | 88.00 | 86.50 | 86.15 | 1.85 |
| X135 | 876.00 | 6.00 | 87.98 | 86.48 | 86.13 | 1.85 |
| X135.1 | 882.00 | 6.00 | 87.78 | 86.28 | 85.93 | 1.85 |
| X135.2 | 888.00 | 6.00 | 87.75 | 86.25 | 85.90 | 1.85 |
| X135.3 | 894.00 | 6.00 | 87.71 | 86.21 | 85.86 | 1.85 |
| X135.4 | 900.00 | 6.00 | 87.68 | 86.18 | 85.83 | 1.85 |
| X135.5 | 906.00 | 6.00 | 87.58 | 86.08 | 85.73 | 1.85 |
| X135.6 | 912.00 | 6.00 | 87.52 | 86.02 | 85.67 | 1.85 |
| X135.7 | 918.00 | 6.00 | 87.46 | 85.96 | 85.61 | 1.85 |
| X135.8 | 924.00 | 6.00 | 87.44 | 85.94 | 85.59 | 1.85 |
| X135.9 | 930.00 | 6.00 | 87.26 | 85.76 | 85.41 | 1.85 |
| X135.10 | 936.00 | 6.00 | 87.45 | 85.75 | 85.40 | 2.05 |
| X135.11 | 942.00 | 6.00 | 87.22 | 85.72 | 85.37 | 1.85 |
| X135.12 | 948.00 | 6.00 | 86.97 | 85.47 | 85.12 | 1.85 |
| X135.13 | 954.00 | 6.00 | 86.72 | 85.22 | 84.87 | 1.85 |
| X136 | 960.00 | 6.00 | 87.00 | 85.21 | 84.86 | 2.14 |
| X136.1 | 966.00 | 6.00 | 86.44 | 84.94 | 84.59 | 1.85 |
| X136.2 | 972.00 | 6.00 | 86.36 | 84.86 | 84.51 | 1.85 |
| X136.3 | 978.00 | 6.00 | 86.28 | 84.78 | 84.43 | 1.85 |
| X136.4 | 984.00 | 6.00 | 86.19 | 84.69 | 84.34 | 1.85 |
| X136.5 | 990.00 | 6.00 | 86.11 | 84.61 | 84.26 | 1.85 |
| X136.6 | 996.00 | 6.00 | 86.03 | 84.53 | 84.18 | 1.85 |
| X136.7 | 2.00 | 6.00 | 85.96 | 84.46 | 84.11 | 1.85 |
| X136.8 | 8.00 | 6.00 | 85.88 | 84.38 | 84.03 | 1.85 |
| X136.9 | 14.00 | 6.00 | 85.83 | 84.33 | 83.98 | 1.85 |
| X137 | 20.00 | 6.00 | 85.77 | 84.27 | 83.92 | 1.85 |
| X137.1 | 26.00 | 6.00 | 85.72 | 84.22 | 83.87 | 1.85 |
| X137.2 | 32.00 | 6.00 | 85.77 | 84.21 | 83.86 | 1.91 |
| X137.3 | 38.00 | 6.00 | 85.81 | 84.20 | 83.85 | 1.96 |
| X137.4 | 44.00 | 6.00 | 85.86 | 84.18 | 83.83 | 2.03 |
| X137.5 | 50.00 | 6.00 | 85.83 | 84.17 | 83.82 | 2.01 |
| X137.6 | 56.00 | 6.00 | 85.79 | 84.16 | 83.81 | 1.98 |
| X138 | 62.00 | 6.00 | 85.76 | 84.15 | 83.80 | 1.96 |
| X138.1 | 68.00 | 6.00 | 85.72 | 84.14 | 83.79 | 1.93 |
| X138.2 | 74.00 | 6.00 | 86.26 | 84.76 | 84.41 | 1.85 |
| X138.3 | 80.00 | 6.00 | 86.81 | 85.31 | 84.96 | 1.85 |
| X138.4 | 86.00 | 6.00 | 87.35 | 85.85 | 85.50 | 1.85 |
| X138.5 | 92.00 | 6.00 | 87.89 | 86.39 | 86.04 | 1.85 |
| X138.6 | 98.00 | 6.00 | 87.23 | 85.73 | 85.38 | 1.85 |
| X138.7 | 104.00 | 6.00 | 86.57 | 85.07 | 84.72 | 1.85 |
| X139 | 110.00 | 6.00 | 85.91 | 84.41 | 84.06 | 1.85 |
| X139.1 | 116.00 | 6.00 | 84.30 | 82.80 | 82.45 | 1.85 |
| X139.2 | 122.00 | 6.00 | 84.32 | 82.79 | 82.44 | 1.88 |
| X139.3 | 128.00 | 6.00 | 84.33 | 82.78 | 82.43 | 1.90 |
| X139.4 | 134.00 | 6.00 | 84.39 | 82.76 | 82.41 | 1.98 |
| X140 | 140.00 | 6.00 | 84.45 | 82.75 | 82.40 | 2.05 |
| X140.1 | 146.00 | 6.00 | 84.30 | 82.74 | 82.39 | 1.91 |
| X140.2 | 152.00 | 6.00 | 83.38 | 82.73 | 82.38 | 1.00 |
| X140.3 | 158.00 | 6.00 | 83.72 | 82.72 | 82.37 | 1.35 |
| X140.4 | 164.00 | 6.00 | 84.06 | 82.70 | 82.35 | 1.71 |
| X140.5 | 170.00 | 6.00 | 83.60 | 82.69 | 82.34 | 1.26 |
| X141 | 176.00 | 6.00 | 83.91 | 82.68 | 82.33 | 1.58 |
| X141.1 | 182.00 | 6.00 | 83.55 | 82.05 | 81.70 | 1.85 |
| X141.2 | 188.00 | 6.00 | 83.60 | 82.04 | 81.69 | 1.91 |
| X141.3 | 194.00 | 6.00 | 83.76 | 82.03 | 81.68 | 2.08 |
| X141.4 | 200.00 | 6.00 | 83.62 | 82.01 | 81.66 | 1.96 |
| X141.5 | 206.00 | 6.00 | 83.49 | 81.98 | 81.64 | 1.85 |
| X141.6 | 212.00 | 6.00 | 83.35 | 81.85 | 81.50 | 1.85 |
| X141.7 | 218.00 | 6.00 | 83.21 | 81.71 | 81.36 | 1.85 |
| X141.8 | 224.00 | 6.00 | 83.25 | 81.70 | 81.35 | 1.90 |
| X141.9 | 230.00 | 6.00 | 83.25 | 81.69 | 81.34 | 1.91 |
| X142 | 236.00 | 6.00 | 83.26 | 81.67 | 81.32 | 1.94 |
| X142.1 | 242.00 | 6.00 | 83.26 | 81.66 | 81.31 | 1.95 |
| X142.2 | 248.00 | 6.00 | 83.23 | 81.65 | 81.30 | 1.93 |
| X142.3 | 254.00 | 6.00 | 83.20 | 81.64 | 81.29 | 1.91 |
| | 260.00 | 6.00 | 83.17 | 81.63 | 81.28 | 1.89 |

– 2.00 | – 33.17 | – 37.17 | – 11.67 | – 2.00 | – 7.67 | – 30.00 | – 39.17 | – 2.83 | – 2.67 | – 2.83 | – 33.33 | – 5.00 | – 6.67 | – 5.00 | – 16.67 | – 10.00 | – 3.33 | – 30.00 | – 2.00 | – 4.67 | – 41.67 | – 2.00 | – 44.67 | – 13.67 | – 13.83 | – 13.67 | – 13.83 | – 12.83 | – 12.67 | – 12.83 | – 8.83 | – 9.00 | 8.83 | – 2.00 | 104.50 | 90.33 | – 110.00 | – 268.33 | – 2.00 | – 105.00 | – 2.00 | – 4.83 | + 23.00 | – 2.00



5+300 5+400 5+500 5+600 5+700

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|---|---|---|---|---|---|---|---|---|---|---|
| X142.5 | X143 | X143.1 | X143.2 | X143.3 | X143.4 | X144 | X144.1 | X144.2 | X144.3 | X144.4 |
| 266.00 | 272.00 | 278.00 | 284.00 | 290.00 | 296.00 | 302.00 | 308.00 | 314.00 | 320.00 | 326.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 83.13 | 83.10 | 83.07 | 83.42 | 83.40 | 83.38 | 83.35 | 83.33 | 83.31 | 83.29 | 83.26 |
| 81.61 | 81.60 | 81.57 | 81.56 | 81.55 | 81.53 | 81.52 | 81.51 | 81.50 | 81.49 | 81.47 |
| 81.26 | 81.25 | 81.22 | 81.21 | 81.20 | 81.18 | 81.17 | 81.16 | 81.15 | 81.14 | 81.12 |
| 1.87 | 1.85 | 1.85 | 2.21 | 2.20 | 2.20 | 2.18 | 2.17 | 2.16 | 2.15 | 2.14 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X144.5 | X144.6 | X144.7 | X145 | X145.1 | X145.2 | X145.3 | X145.4 | X145.5 | X145.6 | X145.7 |
| 332.00 | 338.00 | 344.00 | 350.00 | 356.00 | 362.00 | 368.00 | 374.00 | 380.00 | 386.00 | 392.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 83.24 | 83.08 | 82.92 | 82.76 | 82.60 | 82.60 | 82.60 | 82.60 | 82.60 | 82.60 | 82.52 |
| 81.46 | 81.45 | 81.44 | 81.43 | 81.10 | 81.09 | 81.08 | 81.06 | 81.05 | 81.04 | 81.02 |
| 81.11 | 81.10 | 81.09 | 81.08 | 80.75 | 80.74 | 80.73 | 80.71 | 80.70 | 80.69 | 80.67 |
| 2.13 | 1.98 | 1.83 | 1.68 | 1.85 | 1.86 | 1.87 | 1.89 | 1.90 | 1.91 | 1.85 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X145.8 | X145.9 | X146 | X146.1 | X146.2 | X146.3 | X146.4 | X146.5 | X146.6 | X146.7 | X146.8 |
| 398.00 | 404.00 | 410.00 | 416.00 | 422.00 | 428.00 | 434.00 | 440.00 | 446.00 | 452.00 | 458.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 82.44 | 82.37 | 82.29 | 82.21 | 82.12 | 82.02 | 81.93 | 81.83 | 81.72 | 81.62 | 81.51 |
| 80.94 | 80.87 | 80.79 | 80.71 | 80.62 | 80.52 | 80.43 | 80.33 | 80.22 | 80.11 | 80.01 |
| 80.59 | 80.52 | 80.44 | 80.36 | 80.27 | 80.17 | 80.08 | 79.98 | 79.87 | 79.77 | 79.66 |
| 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.86 | 1.85 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X146.9 | X146.10 | X146.11 | X147 | X147.1 | X147.2 | X147.3 | X147.4 | X147.5 | X147.6 | X147.7 |
| 464.00 | 470.00 | 476.00 | 482.00 | 488.00 | 494.00 | 500.00 | 506.00 | 512.00 | 518.00 | 524.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 81.41 | 81.30 | 81.32 | 81.34 | 81.36 | 81.08 | 80.79 | 80.81 | 80.83 | 80.79 | 80.75 |
| 79.91 | 79.80 | 79.79 | 79.78 | 79.76 | 79.58 | 79.29 | 79.28 | 79.27 | 79.25 | 79.24 |
| 79.56 | 79.45 | 79.44 | 79.43 | 79.41 | 79.23 | 78.94 | 78.93 | 78.92 | 78.90 | 78.89 |
| 1.85 | 1.85 | 1.88 | 1.91 | 1.95 | 1.85 | 1.85 | 1.88 | 1.91 | 1.89 | 1.86 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X147.8 | X148 | X148.1 | X148.2 | X148.3 | X148.4 | X148.5 | X148.6 | X148.7 | X148.8 | X148.9 |
| 530.00 | 536.00 | 542.00 | 548.00 | 554.00 | 560.00 | 566.00 | 572.00 | 578.00 | 584.00 | 590.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 80.72 | 80.68 | 80.64 | 80.05 | 81.43 | 81.00 | 80.56 | 80.13 | 80.10 | 80.08 | 80.05 |
| 79.22 | 79.18 | 79.14 | 78.55 | 79.93 | 79.50 | 79.06 | 78.63 | 78.60 | 78.58 | 78.55 |
| 78.87 | 78.83 | 78.79 | 78.20 | 79.58 | 79.15 | 78.71 | 78.28 | 78.25 | 78.23 | 78.20 |
| 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |

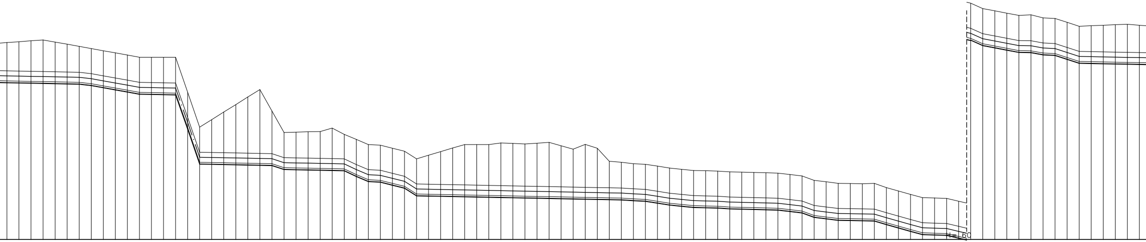
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X149 | X149.1 | X149.2 | X149.3 | X149.4 | X150 | X150.1 | X150.2 | X150.3 | X150.4 | X150.5 |
| 596.00 | 602.00 | 608.00 | 614.00 | 620.00 | 626.00 | 632.00 | 638.00 | 644.00 | 650.00 | 656.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 80.03 | 80.00 | 80.10 | 80.08 | 80.05 | 80.03 | 80.00 | 80.08 | 80.15 | 80.23 | 80.30 |
| 78.53 | 78.50 | 78.49 | 78.48 | 78.46 | 78.45 | 78.44 | 78.43 | 78.42 | 78.40 | 78.39 |
| 78.18 | 78.15 | 78.14 | 78.13 | 78.11 | 78.10 | 78.09 | 78.08 | 78.07 | 78.05 | 78.04 |
| 1.85 | 1.85 | 1.96 | 1.95 | 1.94 | 1.93 | 1.91 | 2.00 | 2.08 | 2.18 | 2.26 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X150.6 | X150.7 | X150.8 | X150.9 | X150.10 | X151 | X151.1 | X151.2 | X151.3 | X151.4 | X151.5 |
| 662.00 | 668.00 | 674.00 | 680.00 | 686.00 | 692.00 | 698.00 | 704.00 | 710.00 | 716.00 | 722.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 80.34 | 80.39 | 80.43 | 80.47 | 80.51 | 80.56 | 80.60 | 80.41 | 80.21 | 80.02 | 80.03 |
| 78.38 | 78.37 | 78.36 | 78.34 | 78.33 | 78.32 | 78.31 | 78.30 | 78.28 | 78.27 | 78.26 |
| 78.03 | 78.02 | 78.01 | 77.99 | 77.98 | 77.97 | 77.96 | 77.95 | 77.93 | 77.92 | 77.91 |
| 2.31 | 2.37 | 2.42 | 2.48 | 2.53 | 2.59 | 2.64 | 2.46 | 2.28 | 2.10 | 2.12 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| X151.6 | X152 | X152.1 | X153 | X153.1 | X153.2 | X154 | X1 |
| 728.00 | 734.00 | 740.00 | 746.00 | 752.00 | 758.00 | 764.00 | 770.00 |
| 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 80.04 | 80.05 | 80.06 | 79.90 | 79.73 | 79.74 | 79.75 | 79.76 |
| 78.25 | 78.24 | 78.22 | 78.21 | 78.20 | 78.19 | 78.18 | 78.16 |
| 77.90 | 77.89 | 77.87 | 77.86 | 77.85 | 77.84 | 77.83 | 77.81 |
| 2.14 | 2.16 | 2.19 | 2.04 | 1.88 | 1.90 | 1.92 | 1.95 |

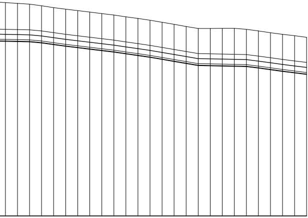
D= DI 500 L= 1992m

– 5.33 – 2.00 – 54.33 – 2.00 – 3.00 – 13.00 – 15.50 – 15.67 15.50 – 17.50 – 2.00 – 31.50 – 47.50 – 2.00 – 4.33 6.33 – 98.33 230.00 – 72.17 – 4.33 – 2.00



| | | | | | | |
|---|---|---|---|---|---|---|
| X154.1 | 776.00 | 6.00 | 79.81 | 78.15 | 77.80 | 2.01 |
| X154.2 | 782.00 | 6.00 | 79.85 | 78.14 | 77.79 | 2.06 |
| X154.3 | 788.00 | 6.00 | 79.90 | 78.13 | 77.78 | 2.12 |
| X155 | 794.00 | 6.00 | 79.94 | 78.12 | 77.77 | 2.17 |
| X155.1 | 800.00 | 6.00 | 79.83 | 78.10 | 77.75 | 2.08 |
| X155.2 | 806.00 | 6.00 | 79.73 | 78.09 | 77.74 | 1.99 |
| X155.3 | 812.00 | 6.00 | 79.62 | 78.08 | 77.73 | 1.89 |
| X155.4 | 818.00 | 6.00 | 79.51 | 78.01 | 77.66 | 1.85 |
| X155.5 | 824.00 | 6.00 | 79.40 | 77.90 | 77.55 | 1.85 |
| X155.6 | 830.00 | 6.00 | 79.30 | 77.80 | 77.45 | 1.85 |
| X155.7 | 836.00 | 6.00 | 79.19 | 77.69 | 77.34 | 1.85 |
| X156 | 842.00 | 6.00 | 79.08 | 77.58 | 77.23 | 1.85 |
| X156.1 | 848.00 | 6.00 | 79.08 | 77.57 | 77.22 | 1.86 |
| X156.2 | 854.00 | 6.00 | 79.08 | 77.56 | 77.21 | 1.87 |
| X157 | 860.00 | 6.00 | 79.08 | 77.54 | 77.19 | 1.89 |
| X157.1 | 866.00 | 6.00 | 77.34 | 75.84 | 75.49 | 1.85 |
| X158 | 872.00 | 6.00 | 75.60 | 74.10 | 73.75 | 1.85 |
| X158.1 | 878.00 | 6.00 | 75.97 | 74.09 | 73.74 | 2.23 |
| X158.2 | 884.00 | 6.00 | 76.35 | 74.08 | 73.73 | 2.62 |
| X158.3 | 890.00 | 6.00 | 76.72 | 74.06 | 73.71 | 3.01 |
| X158.4 | 896.00 | 6.00 | 77.10 | 74.05 | 73.70 | 3.40 |
| X158.5 | 902.00 | 6.00 | 77.47 | 74.04 | 73.69 | 3.78 |
| X158.6 | 908.00 | 6.00 | 76.40 | 74.03 | 73.68 | 2.72 |
| X159 | 914.00 | 6.00 | 75.33 | 73.83 | 73.48 | 1.85 |
| X159.1 | 920.00 | 6.00 | 75.35 | 73.82 | 73.47 | 1.88 |
| X159.2 | 926.00 | 6.00 | 75.37 | 73.81 | 73.46 | 1.91 |
| X159.3 | 932.00 | 6.00 | 75.38 | 73.79 | 73.44 | 1.94 |
| X160 | 938.00 | 6.00 | 75.55 | 73.78 | 73.43 | 2.12 |
| X160.1 | 944.00 | 6.00 | 75.24 | 73.77 | 73.42 | 1.82 |
| X160.2 | 950.00 | 6.00 | 74.99 | 73.48 | 73.14 | 1.85 |
| X160.3 | 956.00 | 6.00 | 74.73 | 73.23 | 72.88 | 1.85 |
| X160.4 | 962.00 | 6.00 | 74.70 | 73.20 | 72.85 | 1.85 |
| X160.5 | 968.00 | 6.00 | 74.55 | 73.05 | 72.70 | 1.85 |
| X161 | 974.00 | 6.00 | 74.40 | 72.90 | 72.55 | 1.85 |
| X161.1 | 980.00 | 6.00 | 74.02 | 72.52 | 72.17 | 1.85 |
| X161.2 | 986.00 | 6.00 | 74.20 | 72.51 | 72.16 | 2.04 |
| X162 | 992.00 | 6.00 | 74.38 | 72.50 | 72.15 | 2.23 |
| X162.1 | 998.00 | 6.00 | 74.56 | 72.48 | 72.13 | 2.43 |
| X162.2 | 4.00 | 6.00 | 74.73 | 72.47 | 72.12 | 2.61 |
| X162.3 | 10.00 | 6.00 | 74.73 | 72.46 | 72.11 | 2.62 |
| X162.4 | 16.00 | 6.00 | 74.73 | 72.45 | 72.10 | 2.63 |
| X162.5 | 22.00 | 6.00 | 74.81 | 72.44 | 72.09 | 2.72 |
| X162.6 | 28.00 | 6.00 | 74.79 | 72.42 | 72.07 | 2.72 |
| X163 | 34.00 | 6.00 | 74.76 | 72.41 | 72.06 | 2.70 |
| X163.1 | 40.00 | 6.00 | 74.80 | 72.40 | 72.05 | 2.75 |
| X163.2 | 46.00 | 6.00 | 74.84 | 72.39 | 72.04 | 2.80 |
| X163.3 | 52.00 | 6.00 | 74.67 | 72.38 | 72.03 | 2.64 |
| X163.4 | 58.00 | 6.00 | 74.50 | 72.36 | 72.01 | 2.49 |
| X164 | 64.00 | 6.00 | 74.74 | 72.35 | 72.00 | 2.74 |
| X165 | 70.00 | 6.00 | 74.55 | 72.34 | 71.99 | 2.56 |
| X165.1 | 76.00 | 6.00 | 73.90 | 72.33 | 71.98 | 1.92 |
| X166 | 82.00 | 6.00 | 73.85 | 72.32 | 71.97 | 1.88 |
| X167 | 88.00 | 6.00 | 73.78 | 72.28 | 71.93 | 1.85 |
| X167.1 | 94.00 | 6.00 | 73.75 | 72.25 | 71.90 | 1.85 |
| X167.2 | 100.00 | 6.00 | 73.66 | 72.16 | 71.81 | 1.85 |
| X167.3 | 106.00 | 6.00 | 73.56 | 72.06 | 71.71 | 1.85 |
| X167.4 | 112.00 | 6.00 | 73.50 | 72.00 | 71.65 | 1.85 |
| X167.5 | 118.00 | 6.00 | 73.44 | 71.94 | 71.59 | 1.85 |
| X167.6 | 124.00 | 6.00 | 73.43 | 71.92 | 71.58 | 1.86 |
| X167.7 | 130.00 | 6.00 | 73.41 | 71.91 | 71.56 | 1.85 |
| X167.8 | 136.00 | 6.00 | 73.37 | 71.87 | 71.52 | 1.85 |
| X167.9 | 142.00 | 6.00 | 73.36 | 71.86 | 71.51 | 1.85 |
| X167.10 | 148.00 | 6.00 | 73.34 | 71.84 | 71.49 | 1.85 |
| X167.11 | 154.00 | 6.00 | 73.33 | 71.83 | 71.48 | 1.85 |
| X167.12 | 160.00 | 6.00 | 73.31 | 71.81 | 71.46 | 1.85 |
| X167.13 | 166.00 | 6.00 | 73.24 | 71.74 | 71.39 | 1.85 |
| X167.14 | 172.00 | 6.00 | 73.17 | 71.67 | 71.32 | 1.85 |
| X168 | 178.00 | 6.00 | 72.95 | 71.45 | 71.10 | 1.85 |
| X168.1 | 184.00 | 6.00 | 72.88 | 71.38 | 71.03 | 1.85 |
| X168.2 | 190.00 | 6.00 | 72.80 | 71.30 | 70.95 | 1.85 |
| X168.3 | 196.00 | 6.00 | 72.79 | 71.29 | 70.94 | 1.85 |
| X168.4 | 202.00 | 6.00 | 72.78 | 71.28 | 70.93 | 1.85 |
| X169 | 208.00 | 6.00 | 72.80 | 71.27 | 70.92 | 1.88 |
| X169.1 | 214.00 | 6.00 | 72.59 | 71.09 | 70.74 | 1.85 |
| X169.2 | 220.00 | 6.00 | 72.42 | 70.92 | 70.57 | 1.85 |
| X169.3 | 226.00 | 6.00 | 72.25 | 70.75 | 70.40 | 1.85 |
| X169.4 | 232.00 | 6.00 | 72.09 | 70.59 | 70.24 | 1.85 |
| X169.5 | 238.00 | 6.00 | 72.07 | 70.57 | 70.22 | 1.85 |
| X170 | 244.00 | 6.00 | 72.05 | 70.55 | 70.20 | 1.85 |
| X170.1 | 250.00 | 6.00 | 71.91 | 70.41 | 70.06 | 1.85 |
| X170.2 | 256.00 | 6.00 | 71.77 | 70.27 | 69.92 | 1.85 |
| X170.3 | 262.00 | 6.00 | 71.50 | 70.00 | 69.65 | 1.85 |
| X170.4 | 268.00 | 6.00 | 71.39 | 69.89 | 69.54 | 1.85 |
| X170.5 | 274.00 | 6.00 | 71.27 | 69.77 | 69.42 | 1.85 |
| X170.6 | 280.00 | 6.00 | 71.16 | 69.66 | 69.31 | 1.85 |
| X171 | 286.00 | 6.00 | 71.19 | 69.65 | 69.30 | 1.89 |
| X171.1 | 292.00 | 6.00 | 71.04 | 69.54 | 69.19 | 1.85 |
| X171.2 | 298.00 | 6.00 | 71.01 | 69.51 | 69.16 | 1.85 |
| X172 | 304.00 | 6.00 | 70.82 | 69.31 | 68.97 | 1.85 |
| X172.1 | 310.00 | 6.00 | 70.62 | 69.12 | 68.77 | 1.85 |
| X172.2 | 316.00 | 6.00 | 70.65 | 69.11 | 68.76 | 1.89 |
| X172.3 | 322.00 | 6.00 | 70.67 | 69.10 | 68.75 | 1.92 |
| X172.4 | 328.00 | 6.00 | 70.70 | 69.08 | 68.73 | 1.97 |
| X172.5 | 334.00 | 6.00 | 70.72 | 69.07 | 68.72 | 2.00 |
| X173 | 340.00 | 6.00 | 70.67 | 69.06 | 68.71 | 1.96 |

– 11.67 – 18.00 – 2.00 – 284.00 – 290.00 – 2.00 – 33.00 – 2.00 – 47.50 – 42.50 – 5.00 – 25.00 – 63.33 – 2.00 – 6.00 – 5.00 – 15.83 – 10.00 – 2.50 – 6.67 – 2.50 – 11.67 – 36.67 – 12.50 – 1.67 – 2.00 – 29.67 – 28.33 – 26.67 – 3.33 – 23.33 – 45.00 – 18.83 – 2.00 – 18.00 – 5.00 – 32.50 – 2.00



| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 6+400 | | | | | | | | | | | | | | | | |
| X173.2 | X173.3 | X173.4 | X173.5 | X173.6 | X174 | X174.1 | X174.2 | X174.3 | X174.4 | X174.5 | X175 | X175.1 | X175.2 | X175.3 | X175.4 | X175.5 | X175.6 | X176 | X176.1 | X176.2 | X176.3 | X176.4 | X176.5 | X177 | |
| 346.00 | 352.00 | 358.00 | 364.00 | 370.00 | 376.00 | 382.00 | 388.00 | 394.00 | 400.00 | 406.00 | 412.00 | 418.00 | 424.00 | 430.00 | 436.00 | 442.00 | 448.00 | 454.00 | 460.00 | 466.00 | 472.00 | 478.00 | 484.00 | 490.00 | 496.00 |
| 00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 70.63 | 70.59 | 70.55 | 70.47 | 70.38 | 70.30 | 70.23 | 70.16 | 70.08 | 70.01 | 69.92 | 69.84 | 69.75 | 69.65 | 69.55 | 69.44 | 69.34 | 69.34 | 69.35 | 69.35 | 69.30 | 69.22 | 69.13 | 69.05 | 68.98 | 68.90 |
| 69.05 | 69.04 | 69.02 | 68.97 | 68.88 | 68.80 | 68.73 | 68.66 | 68.58 | 68.51 | 68.42 | 68.34 | 68.25 | 68.15 | 68.05 | 67.94 | 67.84 | 67.83 | 67.82 | 67.80 | 67.79 | 67.72 | 67.63 | 67.55 | 67.47 | 67.40 |
| 68.70 | 68.69 | 68.67 | 68.62 | 68.53 | 68.45 | 68.38 | 68.31 | 68.23 | 68.16 | 68.07 | 67.99 | 67.90 | 67.80 | 67.70 | 67.59 | 67.49 | 67.48 | 67.47 | 67.45 | 67.44 | 67.37 | 67.28 | 67.20 | 67.12 | 67.05 |
| 1.93 | 1.90 | 1.88 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.86 | 1.88 | 1.90 | 1.86 | 1.85 | 1.85 | 1.85 | 1.86 | 1.85 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | – | –<br>9.50 – | 14.00 – | 13.83 – | 12.00 – | 12.17 – | 12.00 – | 12.17 – | 14.50 – | 14.33 | 14.50 | – 17.17 | | | | – 2.00 – | | | | –<br>12.50 – | 14.00 | 13.83 | – 12.50 | | |