

# PROVINCIA DI MATERA COMUNE DI FERRANDINA

LOCALITA':

## LOCALITA' QUADRONE

PROGETTO:

**PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A  
TERRA DELLA POTENZA NOMINALE 19,99 MW DENOMINATO "DALSOLAR1"**

TITOLO DOCUMENTO:

**SIMULAZIONE IDRAULICA - RISULTATI GRAFICI AREA PARCO  
INTERFERENZE ASTE FLUVIALI SECONDARIE**

SOGGETTO RICHIEDENTE

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| Codice lavoro | Livello projet. | Cat. Op.    | Tipologia | Numero | Rev. | Pag. | di | Nome file                             | Scala                                 | Progressivo                           |
|---------------|-----------------|-------------|-----------|--------|------|------|----|---------------------------------------|---------------------------------------|---------------------------------------|
| C261          | PD              | I.FV_IF     | R         | 01     | /00  | 1    | 1  | A.3.3                                 |                                       | ...                                   |
| Rev.          | Data            | Descrizione |           |        |      |      |    | Redazione                             | Controllo                             | Approvazione                          |
| 00            | 31/01/2022      | Emissione   |           |        |      |      |    | ing. Domenico Castaldo<br>EGM Project | ing. Domenico Castaldo<br>EGM Project | ing. Domenico Castaldo<br>EGM Project |
|               |                 |             |           |        |      |      |    |                                       |                                       |                                       |
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|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
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**1 Dati tabellari**

**1.1 Bacino 1 – River 3-4-5-6**

| River   | Reach         | River Sta | Profile | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|---------|---------------|-----------|---------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| River 6 | Reach 6       | 52        | PF 1    | 0.26              | 203.46           | 203.75           | 203.75           | 203.82           | 0.023327            | 1.21              | 0.21              | 1.50             | 1.02         |
| River 6 | Reach 6       | 52        | PF 2    | 0.77              | 203.46           | 203.92           | 203.92           | 204.01           | 0.021639            | 1.27              | 0.61              | 3.67             | 0.99         |
| River 6 | Reach 6       | 42        | PF 1    | 0.26              | 194.31           | 194.40           | 194.62           | 202.17           | 10.546280           | 12.34             | 0.02              | 0.44             | 17.94        |
| River 6 | Reach 6       | 42        | PF 2    | 0.77              | 194.31           | 194.47           | 194.80           | 202.42           | 4.897182            | 12.49             | 0.06              | 0.69             | 13.36        |
| River 6 | Reach 6       | 32        | PF 1    | 0.26              | 188.33           | 188.55           | 188.70           | 189.26           | 0.369072            | 3.72              | 0.07              | 0.62             | 3.54         |
| River 6 | Reach 6       | 32        | PF 2    | 0.77              | 188.33           | 188.66           | 188.90           | 190.01           | 0.424334            | 5.14              | 0.15              | 0.91             | 4.05         |
| River 6 | Reach 6       | 20        | PF 1    | 0.26              | 183.00           | 183.08           | 183.17           | 183.66           | 0.635937            | 3.37              | 0.08              | 1.47             | 4.70         |
| River 6 | Reach 6       | 20        | PF 2    | 0.77              | 183.00           | 183.13           | 183.28           | 184.14           | 0.579589            | 4.43              | 0.17              | 2.04             | 4.85         |
| River 6 | Reach 6       | 11        | PF 1    | 0.26              | 179.55           | 179.65           | 179.75           | 180.06           | 0.294627            | 2.84              | 0.09              | 1.24             | 3.35         |
| River 6 | Reach 6       | 11        | PF 2    | 0.77              | 179.55           | 179.74           | 179.84           | 180.24           | 0.346726            | 3.14              | 0.25              | 3.26             | 3.66         |
| River 5 | Reach 5       | 65        | PF 1    | 0.26              | 205.56           | 205.72           | 205.72           | 205.78           | 0.022581            | 1.07              | 0.24              | 2.11             | 1.00         |
| River 5 | Reach 5       | 65        | PF 2    | 0.77              | 205.56           | 205.85           | 205.85           | 205.94           | 0.019585            | 1.38              | 0.56              | 2.94             | 1.01         |
| River 5 | Reach 5       | 56        | PF 1    | 0.26              | 201.27           | 201.30           | 201.42           | 204.71           | 10.281750           | 8.17              | 0.03              | 1.30             | 16.68        |
| River 5 | Reach 5       | 56        | PF 2    | 0.77              | 201.27           | 201.34           | 201.54           | 204.98           | 3.900290            | 8.45              | 0.09              | 1.70             | 11.65        |
| River 5 | Reach 5       | 44        | PF 1    | 0.26              | 195.19           | 195.33           | 195.38           | 195.51           | 0.188250            | 1.90              | 0.14              | 2.46             | 2.57         |
| River 5 | Reach 5       | 44        | PF 2    | 0.77              | 195.19           | 195.37           | 195.48           | 195.88           | 0.277456            | 3.18              | 0.24              | 2.68             | 3.37         |
| River 5 | Reach 5       | 34        | PF 1    | 0.26              | 189.93           | 190.00           | 190.10           | 191.11           | 1.819353            | 4.66              | 0.06              | 1.42             | 7.51         |
| River 5 | Reach 5       | 34        | PF 2    | 0.77              | 189.93           | 190.06           | 190.20           | 191.28           | 0.870767            | 4.89              | 0.16              | 2.13             | 5.76         |
| River 5 | Reach 5       | 21        | PF 1    | 0.26              | 182.99           | 183.14           | 183.23           | 183.50           | 0.264869            | 2.67              | 0.10              | 1.24             | 3.03         |
| River 5 | Reach 5       | 21        | PF 2    | 0.77              | 182.99           | 183.21           | 183.37           | 184.06           | 0.361459            | 4.08              | 0.19              | 1.56             | 3.75         |
| River 5 | Reach 5       | 12        | PF 1    | 0.26              | 180.64           | 180.73           | 180.79           | 181.01           | 0.297756            | 2.34              | 0.11              | 2.08             | 3.23         |
| River 5 | Reach 5       | 12        | PF 2    | 0.77              | 180.64           | 180.79           | 180.90           | 181.30           | 0.255581            | 3.18              | 0.24              | 2.53             | 3.29         |
| River 4 | Reach 4       | 63        | PF 1    | 0.26              | 212.31           | 212.58           | 212.58           | 212.66           | 0.023333            | 1.18              | 0.22              | 1.61             | 1.01         |
| River 4 | Reach 4       | 63        | PF 2    | 0.77              | 212.31           | 212.73           | 212.73           | 212.85           | 0.020225            | 1.53              | 0.50              | 2.16             | 1.01         |
| River 4 | Reach 4       | 57        | PF 1    | 0.26              | 209.36           | 209.43           | 209.56           | 211.89           | 4.562217            | 6.94              | 0.04              | 1.04             | 11.70        |
| River 4 | Reach 4       | 57        | PF 2    | 0.77              | 209.36           | 209.49           | 209.69           | 212.16           | 2.020479            | 7.24              | 0.11              | 1.50             | 8.69         |
| River 4 | Reach 4       | 43        | PF 1    | 0.26              | 200.09           | 200.25           | 200.34           | 200.71           | 0.300574            | 3.01              | 0.09              | 1.07             | 3.38         |
| River 4 | Reach 4       | 43        | PF 2    | 0.77              | 200.09           | 200.31           | 200.49           | 201.30           | 0.383919            | 4.39              | 0.18              | 1.48             | 4.07         |
| River 4 | Reach 4       | 35        | PF 1    | 0.26              | 196.28           | 196.37           | 196.46           | 196.98           | 0.714690            | 3.46              | 0.08              | 1.48             | 4.91         |
| River 4 | Reach 4       | 35        | PF 2    | 0.77              | 196.28           | 196.42           | 196.58           | 197.44           | 0.558845            | 4.46              | 0.17              | 1.92             | 4.75         |
| River 4 | Reach 4       | 27        | PF 1    | 0.26              | 192.70           | 192.83           | 192.91           | 193.20           | 0.298676            | 2.69              | 0.10              | 1.45             | 3.33         |
| River 4 | Reach 4       | 27        | PF 2    | 0.77              | 192.70           | 192.89           | 193.02           | 193.54           | 0.370974            | 3.57              | 0.22              | 2.50             | 3.88         |
| River 4 | Reach 4       | 15        | PF 1    | 0.26              | 186.37           | 186.51           | 186.67           | 187.51           | 0.786944            | 4.43              | 0.06              | 0.72             | 4.95         |
| River 4 | Reach 4       | 15        | PF 2    | 0.77              | 186.37           | 186.62           | 186.80           | 187.80           | 0.593447            | 4.81              | 0.16              | 1.42             | 4.57         |
| River 4 | Reach 4       | 8         | PF 1    | 0.26              | 184.52           | 184.60           | 184.64           | 184.74           | 0.204982            | 1.68              | 0.16              | 3.60             | 2.58         |
| River 4 | Reach 4       | 8         | PF 2    | 0.77              | 184.52           | 184.64           | 184.71           | 184.95           | 0.252605            | 2.49              | 0.31              | 4.60             | 3.07         |
| River 3 | Reach 3       | 360       | PF 1    | 0.26              | 217.86           | 217.98           | 217.98           | 218.03           | 0.025113            | 0.90              | 0.29              | 3.59             | 1.01         |
| River 3 | Reach 3       | 360       | PF 2    | 0.77              | 217.86           | 218.07           | 218.07           | 218.14           | 0.020935            | 1.19              | 0.65              | 4.54             | 1.01         |
| River 3 | Reach 3       | 347       | PF 1    | 0.26              | 215.68           | 215.72           | 215.80           | 216.77           | 3.544481            | 4.54              | 0.06              | 2.54             | 9.67         |
| River 3 | Reach 3       | 347       | PF 2    | 0.77              | 215.68           | 215.75           | 215.89           | 217.12           | 1.475308            | 5.17              | 0.15              | 2.81             | 7.18         |
| River 3 | Reach 3       | 329       | PF 1    | 0.26              | 214.03           | 214.13           | 214.14           | 214.19           | 0.039470            | 1.08              | 0.24              | 3.12             | 1.24         |
| River 3 | Reach 3       | 329       | PF 2    | 0.77              | 214.03           | 214.19           | 214.23           | 214.34           | 0.047337            | 1.70              | 0.45              | 3.40             | 1.48         |
| River 3 | Reach 3       | 308       | PF 1    | 0.26              | 212.03           | 212.15           | 212.23           | 212.48           | 0.238424            | 2.52              | 0.10              | 1.43             | 2.99         |
| River 3 | Reach 3       | 308       | PF 2    | 0.77              | 212.03           | 212.25           | 212.37           | 212.68           | 0.147777            | 2.92              | 0.26              | 2.02             | 2.59         |
| River 3 | Reach 3       | 287       | PF 1    | 0.26              | 208.43           | 208.53           | 208.60           | 208.75           | 0.134258            | 2.05              | 0.13              | 1.56             | 2.30         |
| River 3 | Reach 3       | 287       | PF 2    | 0.77              | 208.43           | 208.60           | 208.73           | 209.14           | 0.191822            | 3.26              | 0.24              | 1.88             | 2.93         |
| River 3 | Reach 3       | 265       | PF 1    | 0.26              | 204.78           | 204.92           | 204.99           | 205.20           | 0.198499            | 2.37              | 0.11              | 1.46             | 2.75         |
| River 3 | Reach 3       | 265       | PF 2    | 0.77              | 204.78           | 205.00           | 205.12           | 205.44           | 0.147525            | 2.93              | 0.26              | 2.01             | 2.59         |
| River 3 | Reach 3       | 239       | PF 1    | 0.26              | 198.15           | 198.27           | 198.35           | 198.66           | 0.317470            | 2.75              | 0.09              | 1.42             | 3.40         |
| River 3 | Reach 3       | 239       | PF 2    | 0.77              | 198.15           | 198.33           | 198.48           | 199.21           | 0.428769            | 4.16              | 0.18              | 1.85             | 4.21         |
| River 3 | Reach 3       | 219       | PF 1    | 0.26              | 195.69           | 195.78           | 195.80           | 195.85           | 0.076351            | 1.22              | 0.21              | 3.80             | 1.65         |
| River 3 | Reach 3       | 219       | PF 2    | 0.77              | 195.69           | 195.83           | 195.88           | 195.99           | 0.077208            | 1.79              | 0.43              | 4.37             | 1.82         |
| River 3 | Reach 3       | 201       | PF 1    | 0.26              | 191.62           | 191.74           | 191.86           | 192.62           | 0.739838            | 4.17              | 0.06              | 0.94             | 5.17         |
| River 3 | Reach 3       | 201       | PF 2    | 0.77              | 191.62           | 191.82           | 192.00           | 192.99           | 0.522258            | 4.80              | 0.16              | 1.51             | 4.70         |
| River 3 | Reach 3       | 180       | PF 1    | 0.26              | 186.76           | 186.94           | 187.01           | 187.17           | 0.127829            | 2.13              | 0.12              | 1.35             | 2.26         |
| River 3 | Reach 3       | 180       | PF 2    | 0.77              | 186.76           | 187.02           | 187.15           | 187.51           | 0.151731            | 3.08              | 0.25              | 1.78             | 2.63         |
| River 3 | Reach 3       | 165       | PF 1    | 0.26              | 185.64           | 185.79           | 185.81           | 185.85           | 0.062610            | 1.06              | 0.25              | 4.71             | 1.48         |
| River 3 | Reach 3       | 165       | PF 2    | 0.77              | 185.64           | 185.84           | 185.88           | 185.97           | 0.067785            | 1.61              | 0.48              | 5.14             | 1.69         |
| River 3 | Reach 3       | 146       | PF 1    | 0.26              | 183.20           | 183.27           | 183.33           | 183.54           | 0.301930            | 2.32              | 0.11              | 2.13             | 3.23         |
| River 3 | Reach 3       | 146       | PF 2    | 0.77              | 183.20           | 183.33           | 183.45           | 183.81           | 0.209025            | 3.06              | 0.25              | 2.36             | 2.99         |
| River 3 | Reach 3-Lower | 140       | PF 1    | 0.26              | 182.82           | 182.93           | 182.97           | 183.06           | 0.106074            | 1.60              | 0.16              | 2.47             | 2.00         |
| River 3 | Reach 3-Lower | 140       | PF 2    | 0.77              | 182.82           | 182.98           | 183.07           | 183.30           | 0.152234            | 2.49              | 0.31              | 3.18             | 2.55         |
| River 3 | Reach 3-Lower | 127       | PF 1    | 0.26              | 181.01           | 181.11           | 181.15           | 181.27           | 0.178243            | 1.80              | 0.14              | 2.75             | 2.50         |

HEC-RAS Plan: Plan 01 (Continued)

| River   | Reach            | River Sta | Profile | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|---------|------------------|-----------|---------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| River 3 | Reach 3-Lower    | 127       | PF 2    | 0.77              | 181.01           | 181.17           | 181.24           | 181.42           | 0.130218            | 2.24              | 0.34              | 3.71             | 2.34         |
| River 3 | Reach 3-Lower-Lo | 105       | PF 1    | 0.26              | 177.68           | 177.85           | 177.91           | 178.06           | 0.122383            | 2.04              | 0.13              | 1.46             | 2.21         |
| River 3 | Reach 3-Lower-Lo | 105       | PF 2    | 0.77              | 177.68           | 177.94           | 178.05           | 178.29           | 0.107491            | 2.62              | 0.29              | 2.10             | 2.23         |
| River 3 | Reach 3-Lower-Lo | 101       | PF 1    | 0.26              | 177.26           | 177.44           | 177.50           | 177.63           | 0.107612            | 1.93              | 0.13              | 1.54             | 2.08         |
| River 3 | Reach 3-Lower-Lo | 101       | PF 2    | 0.77              | 177.26           | 177.52           | 177.62           | 177.87           | 0.120175            | 2.63              | 0.29              | 2.28             | 2.34         |
| River 3 | Reach 3-Lower-Lo | 89        | PF 1    | 1.06              | 175.95           | 176.11           | 176.17           | 176.31           | 0.108016            | 1.96              | 0.54              | 6.17             | 2.11         |
| River 3 | Reach 3-Lower-Lo | 89        | PF 2    | 3.08              | 175.95           | 176.20           | 176.31           | 176.59           | 0.100976            | 2.78              | 1.11              | 7.08             | 2.24         |
| River 3 | Reach 3-Lower-Lo | 68        | PF 1    | 1.06              | 173.97           | 174.18           | 174.24           | 174.38           | 0.080985            | 2.01              | 0.53              | 4.65             | 1.91         |
| River 3 | Reach 3-Lower-Lo | 68        | PF 2    | 3.08              | 173.97           | 174.28           | 174.41           | 174.69           | 0.084354            | 2.81              | 1.09              | 5.99             | 2.10         |
| River 3 | Reach 3-Lower-Lo | 45        | PF 1    | 1.06              | 169.44           | 169.68           | 169.89           | 170.84           | 0.367445            | 4.76              | 0.22              | 1.58             | 4.05         |
| River 3 | Reach 3-Lower-Lo | 45        | PF 2    | 3.08              | 169.44           | 169.85           | 170.19           | 171.49           | 0.242682            | 5.67              | 0.54              | 2.11             | 3.57         |
| River 3 | Reach 3-Lower-Lo | 18        | PF 1    | 1.06              | 167.48           | 167.69           | 167.75           | 167.89           | 0.044530            | 1.99              | 0.53              | 2.98             | 1.50         |
| River 3 | Reach 3-Lower-Lo | 18        | PF 2    | 3.08              | 167.48           | 167.84           | 167.99           | 168.31           | 0.057735            | 3.06              | 1.01              | 3.52             | 1.83         |
| River 3 | Reach 3-Lower-Lo | 1         | PF 1    | 1.06              | 166.35           | 166.74           | 166.82           | 166.97           | 0.068757            | 2.14              | 0.50              | 3.33             | 1.77         |
| River 3 | Reach 3-Lower-Lo | 1         | PF 2    | 3.08              | 166.35           | 166.88           | 166.99           | 167.25           | 0.065508            | 2.67              | 1.15              | 5.42             | 1.84         |

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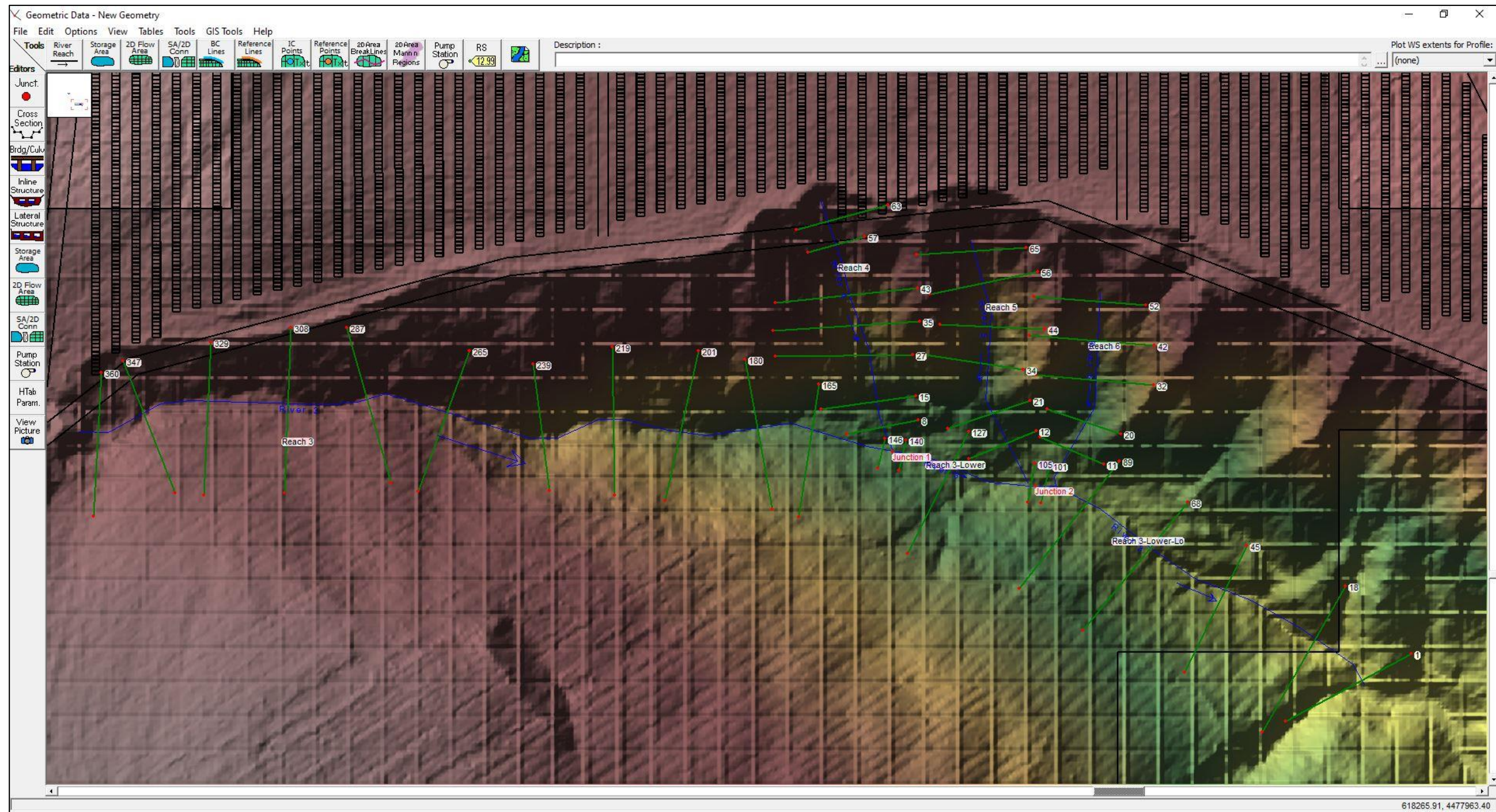
**1.2 Bacino 2 – River 1-2**

| River   | Reach   | River Sta | Profile | Q Total<br>(m3/s) | Min Ch El<br>(m) | W.S. Elev<br>(m) | Crit W.S.<br>(m) | E.G. Elev<br>(m) | E.G. Slope<br>(m/m) | Vel Chnl<br>(m/s) | Flow Area<br>(m2) | Top Width<br>(m) | Froude # Chl |
|---------|---------|-----------|---------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| River 2 | Reach 2 | 102       | PF 1    | 0.25              | 189.40           | 189.56           | 189.56           | 189.61           | 0.024799            | 0.95              | 0.26              | 2.94             | 1.01         |
| River 2 | Reach 2 | 102       | PF 2    | 0.80              | 189.40           | 189.66           | 189.66           | 189.73           | 0.021929            | 1.14              | 0.70              | 5.43             | 1.02         |
| River 2 | Reach 2 | 95        | PF 1    | 0.25              | 188.91           | 189.04           | 189.10           | 189.23           | 0.154674            | 1.95              | 0.13              | 1.91             | 2.41         |
| River 2 | Reach 2 | 95        | PF 2    | 0.80              | 188.91           | 189.11           | 189.17           | 189.36           | 0.189967            | 2.25              | 0.36              | 5.04             | 2.70         |
| River 2 | Reach 2 | 90        | PF 1    | 0.25              | 188.37           | 188.52           | 188.56           | 188.66           | 0.075990            | 1.64              | 0.15              | 1.71             | 1.76         |
| River 2 | Reach 2 | 90        | PF 2    | 0.80              | 188.37           | 188.64           | 188.69           | 188.78           | 0.063892            | 1.65              | 0.48              | 4.78             | 1.66         |
| River 2 | Reach 2 | 84        | PF 1    | 0.25              | 187.98           | 188.13           | 188.17           | 188.24           | 0.064898            | 1.47              | 0.17              | 2.02             | 1.62         |
| River 2 | Reach 2 | 84        | PF 2    | 0.80              | 187.98           | 188.23           | 188.28           | 188.38           | 0.074857            | 1.75              | 0.46              | 4.68             | 1.79         |
| River 2 | Reach 2 | 78        | PF 1    | 0.25              | 187.60           | 187.75           | 187.78           | 187.84           | 0.061009            | 1.34              | 0.19              | 2.45             | 1.55         |
| River 2 | Reach 2 | 78        | PF 2    | 0.80              | 187.60           | 187.84           | 187.87           | 187.94           | 0.060540            | 1.38              | 0.58              | 7.20             | 1.56         |
| River 2 | Reach 2 | 68        | PF 1    | 0.25              | 186.98           | 187.08           | 187.10           | 187.17           | 0.078885            | 1.34              | 0.19              | 2.95             | 1.71         |
| River 2 | Reach 2 | 68        | PF 2    | 0.80              | 186.98           | 187.15           | 187.20           | 187.30           | 0.070028            | 1.74              | 0.46              | 4.53             | 1.74         |
| River 2 | Reach 2 | 62        | PF 1    | 0.25              | 186.60           | 186.67           | 186.68           | 186.71           | 0.064171            | 0.98              | 0.26              | 5.60             | 1.46         |
| River 2 | Reach 2 | 62        | PF 2    | 0.80              | 186.60           | 186.71           | 186.75           | 186.84           | 0.078250            | 1.59              | 0.50              | 6.10             | 1.77         |
| River 2 | Reach 2 | 53.8      | PF 1    | 0.25              | 185.51           | 185.61           | 185.66           | 185.80           | 0.205594            | 1.91              | 0.13              | 2.50             | 2.67         |
| River 2 | Reach 2 | 53.8      | PF 2    | 0.80              | 185.51           | 185.69           | 185.77           | 185.99           | 0.126085            | 2.43              | 0.33              | 3.01             | 2.35         |
| River 2 | Reach 2 | 50        | PF 1    | 0.25              | 185.58           | 185.64           | 185.64           | 185.66           | 0.025637            | 0.56              | 0.44              | 11.23            | 0.90         |
| River 2 | Reach 2 | 50        | PF 2    | 0.80              | 185.58           | 185.68           | 185.68           | 185.72           | 0.023231            | 0.80              | 1.00              | 13.65            | 0.95         |
| River 2 | Reach 2 | 43.8      | PF 1    | 0.25              | 185.29           | 185.41           | 185.41           | 185.44           | 0.025193            | 0.70              | 0.36              | 6.65             | 0.95         |
| River 2 | Reach 2 | 43.8      | PF 2    | 0.80              | 185.29           | 185.47           | 185.47           | 185.51           | 0.025758            | 0.88              | 0.92              | 12.31            | 1.01         |
| River 2 | Reach 2 | 33.4      | PF 1    | 0.25              | 184.87           | 185.05           | 185.02           | 185.07           | 0.010864            | 0.47              | 0.53              | 9.02             | 0.62         |
| River 2 | Reach 2 | 33.4      | PF 2    | 0.80              | 184.87           | 185.07           | 185.09           | 185.14           | 0.050701            | 1.17              | 0.68              | 9.40             | 1.39         |
| River 2 | Reach 2 | 16        | PF 1    | 0.25              | 184.72           | 184.81           | 184.81           | 184.82           | 0.033708            | 0.57              | 0.44              | 13.52            | 1.00         |
| River 2 | Reach 2 | 16        | PF 2    | 0.80              | 184.72           | 184.85           | 184.85           | 184.88           | 0.023370            | 0.78              | 1.03              | 14.83            | 0.94         |
| River 1 | Reach 1 | 56        | PF 1    | 0.25              | 186.06           | 186.17           | 186.17           | 186.19           | 0.025732            | 0.54              | 0.46              | 12.34            | 0.90         |
| River 1 | Reach 1 | 56        | PF 2    | 0.80              | 186.06           | 186.21           | 186.21           | 186.24           | 0.028680            | 0.81              | 0.99              | 15.76            | 1.03         |
| River 1 | Reach 1 | 49        | PF 1    | 0.25              | 185.73           | 185.79           | 185.81           | 185.85           | 0.147697            | 1.08              | 0.23              | 8.14             | 2.05         |
| River 1 | Reach 1 | 49        | PF 2    | 0.80              | 185.73           | 185.83           | 185.86           | 185.91           | 0.101440            | 1.30              | 0.62              | 12.44            | 1.86         |
| River 1 | Reach 1 | 41        | PF 1    | 0.25              | 185.33           | 185.41           | 185.41           | 185.43           | 0.029615            | 0.60              | 0.42              | 10.73            | 0.97         |
| River 1 | Reach 1 | 41        | PF 2    | 0.80              | 185.33           | 185.45           | 185.45           | 185.48           | 0.031732            | 0.82              | 0.97              | 16.25            | 1.08         |
| River 1 | Reach 1 | 34        | PF 1    | 0.25              | 185.13           | 185.20           | 185.20           | 185.22           | 0.029544            | 0.55              | 0.45              | 13.14            | 0.95         |
| River 1 | Reach 1 | 34        | PF 2    | 0.80              | 185.13           | 185.24           | 185.24           | 185.27           | 0.028305            | 0.79              | 1.01              | 16.44            | 1.02         |
| River 1 | Reach 1 | 26        | PF 1    | 0.25              | 184.93           | 185.00           | 185.00           | 185.01           | 0.021632            | 0.48              | 0.52              | 14.70            | 0.82         |
| River 1 | Reach 1 | 26        | PF 2    | 0.80              | 184.93           | 185.02           | 185.04           | 185.08           | 0.074277            | 1.08              | 0.74              | 15.61            | 1.59         |
| River 1 | Reach 1 | 17        | PF 1    | 0.25              | 184.69           | 184.77           | 184.77           | 184.79           | 0.030921            | 0.66              | 0.38              | 8.58             | 1.01         |
| River 1 | Reach 1 | 17        | PF 2    | 0.80              | 184.69           | 184.83           | 184.83           | 184.87           | 0.025543            | 0.85              | 0.94              | 12.64            | 1.00         |
| River 1 | Reach 1 | 12        | PF 1    | 0.25              | 184.53           | 184.60           | 184.60           | 184.62           | 0.036369            | 0.73              | 0.34              | 7.57             | 1.10         |
| River 1 | Reach 1 | 12        | PF 2    | 0.80              | 184.53           | 184.64           | 184.66           | 184.70           | 0.039152            | 1.07              | 0.75              | 9.80             | 1.24         |
| River 1 | Reach 1 | 3         | PF 1    | 0.25              | 184.03           | 184.10           | 184.11           | 184.14           | 0.084755            | 0.83              | 0.30              | 10.53            | 1.56         |
| River 1 | Reach 1 | 3         | PF 2    | 0.80              | 184.03           | 184.13           | 184.16           | 184.21           | 0.078007            | 1.22              | 0.65              | 11.94            | 1.67         |

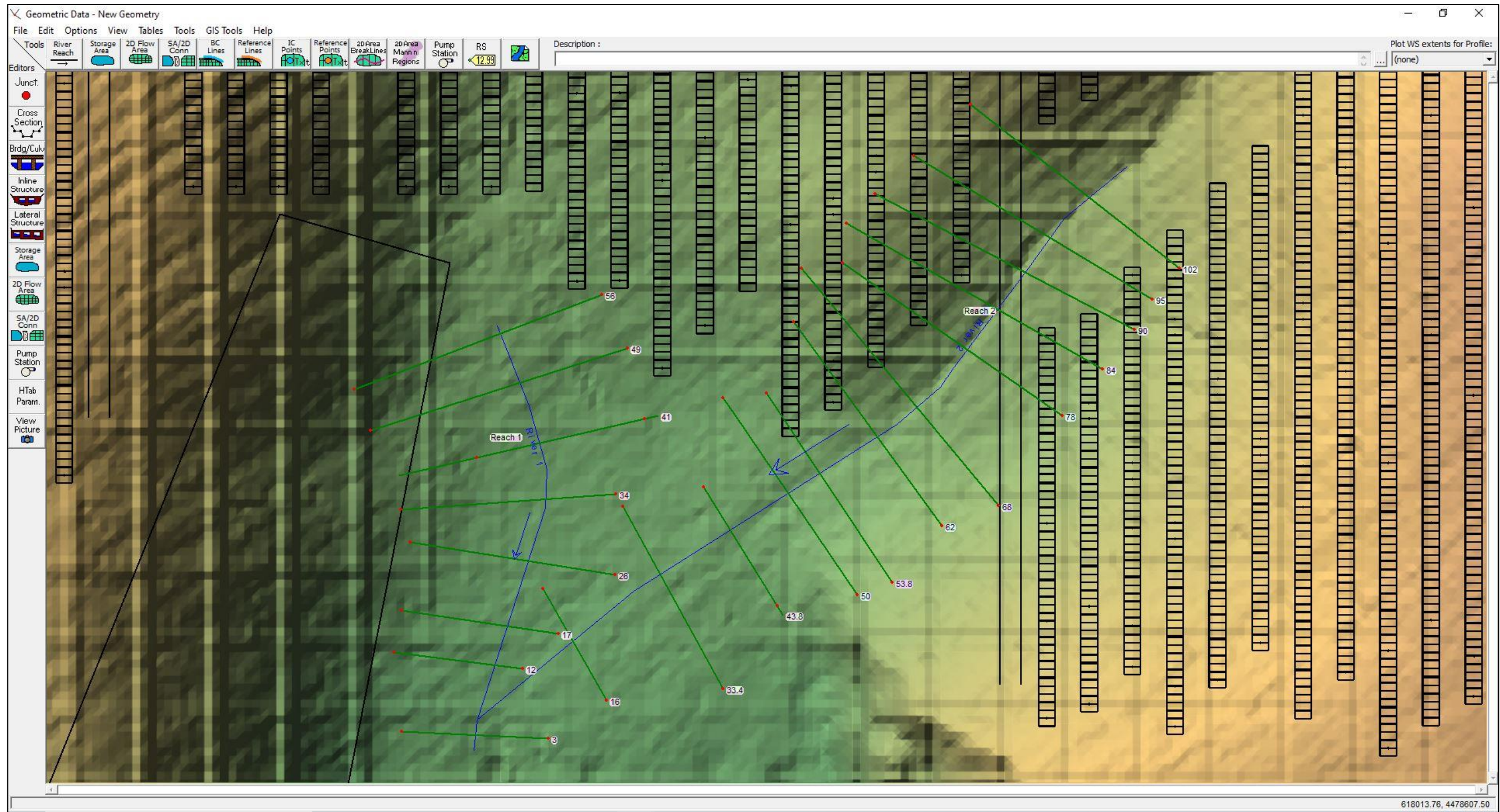


## 2 Geometric Data

### 2.1 Bacino 1 - Schema geometrico utilizzato nella modellazione idraulica 1D terrain



**2.2 Bacino 2 - Schema geometrico utilizzato nella modellazione idraulica 1D terrain**



|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

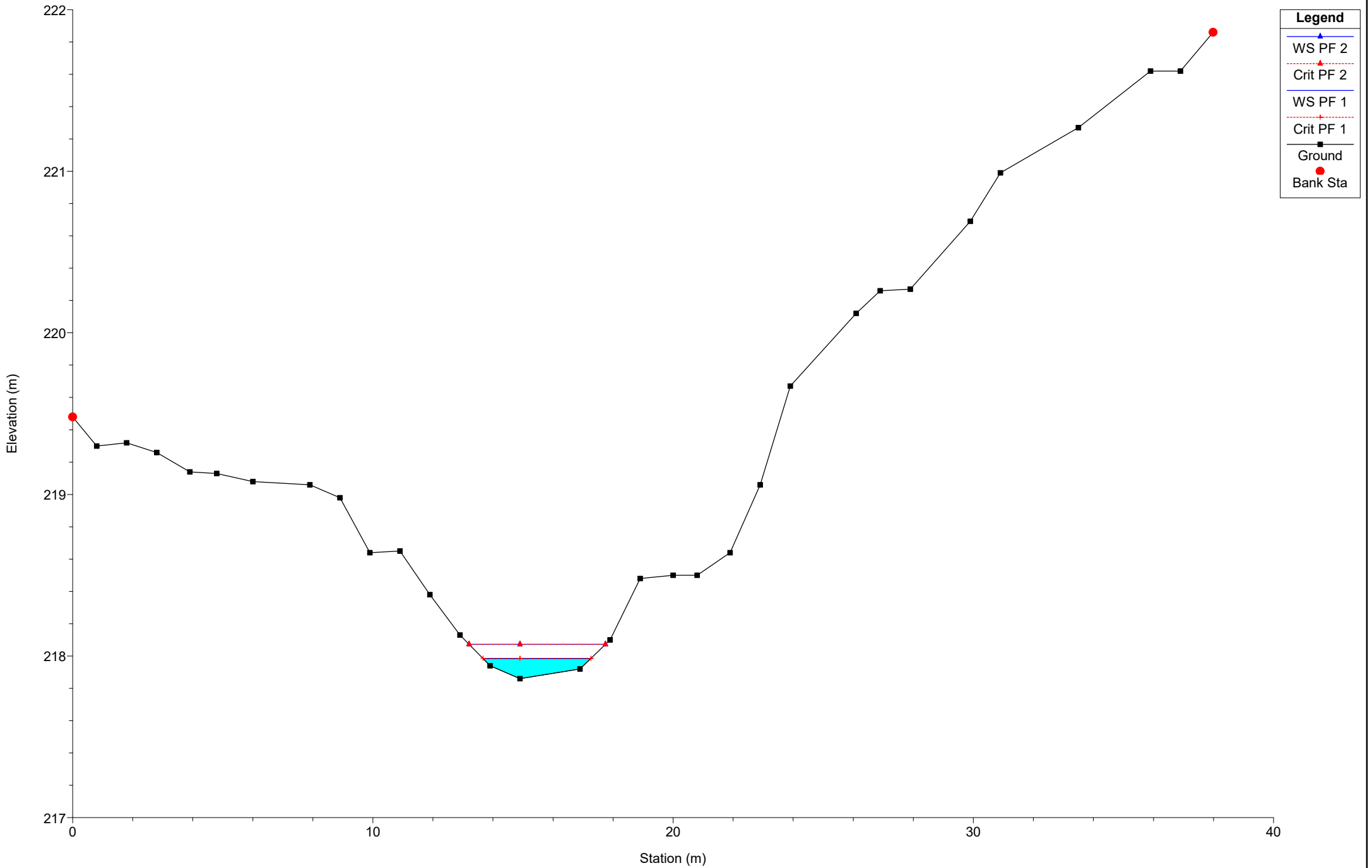
### 3 Risultati grafici – section plot

#### 3.1 Bacino 1

1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

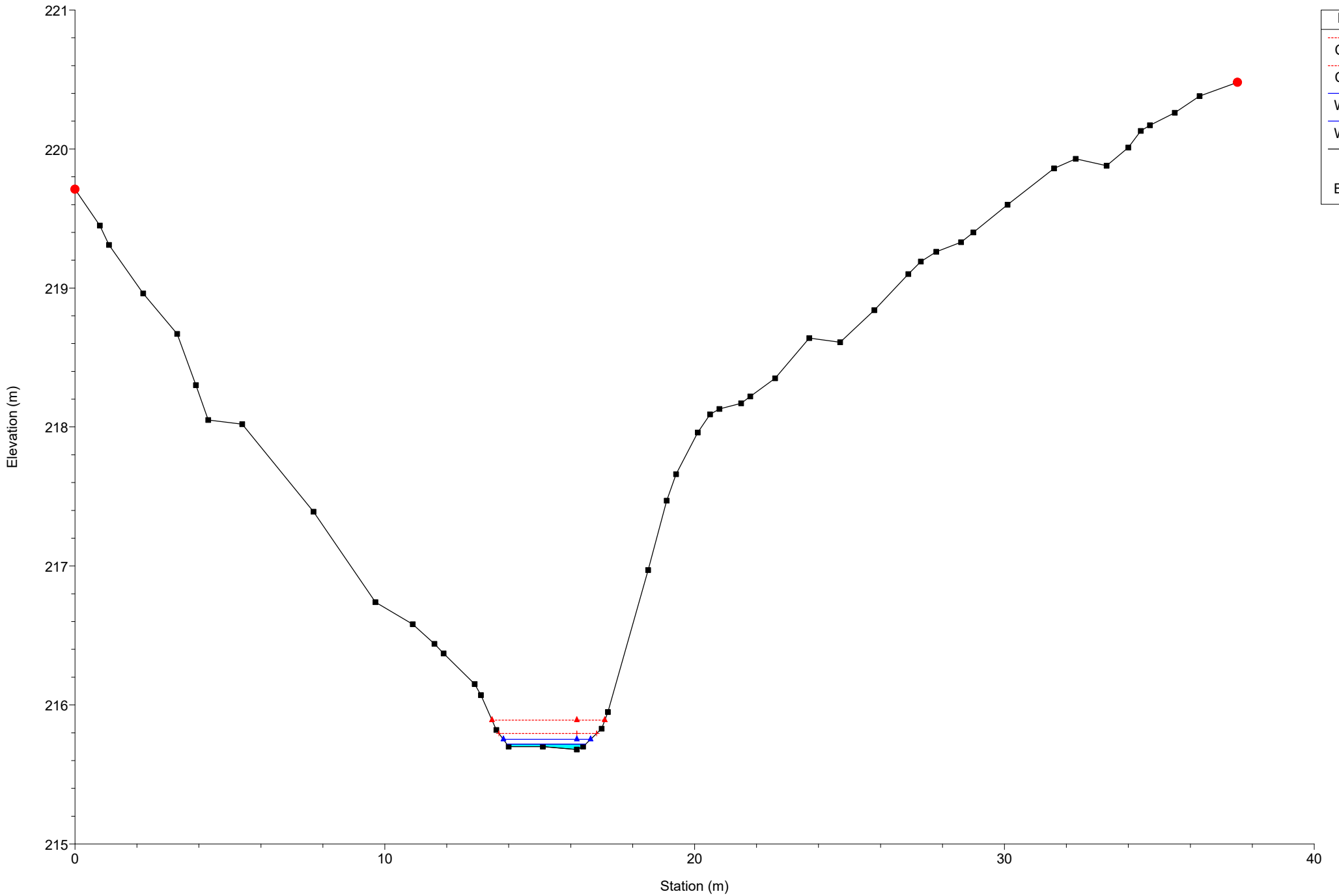
River = River 3 Reach = Reach 3 RS = 360



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

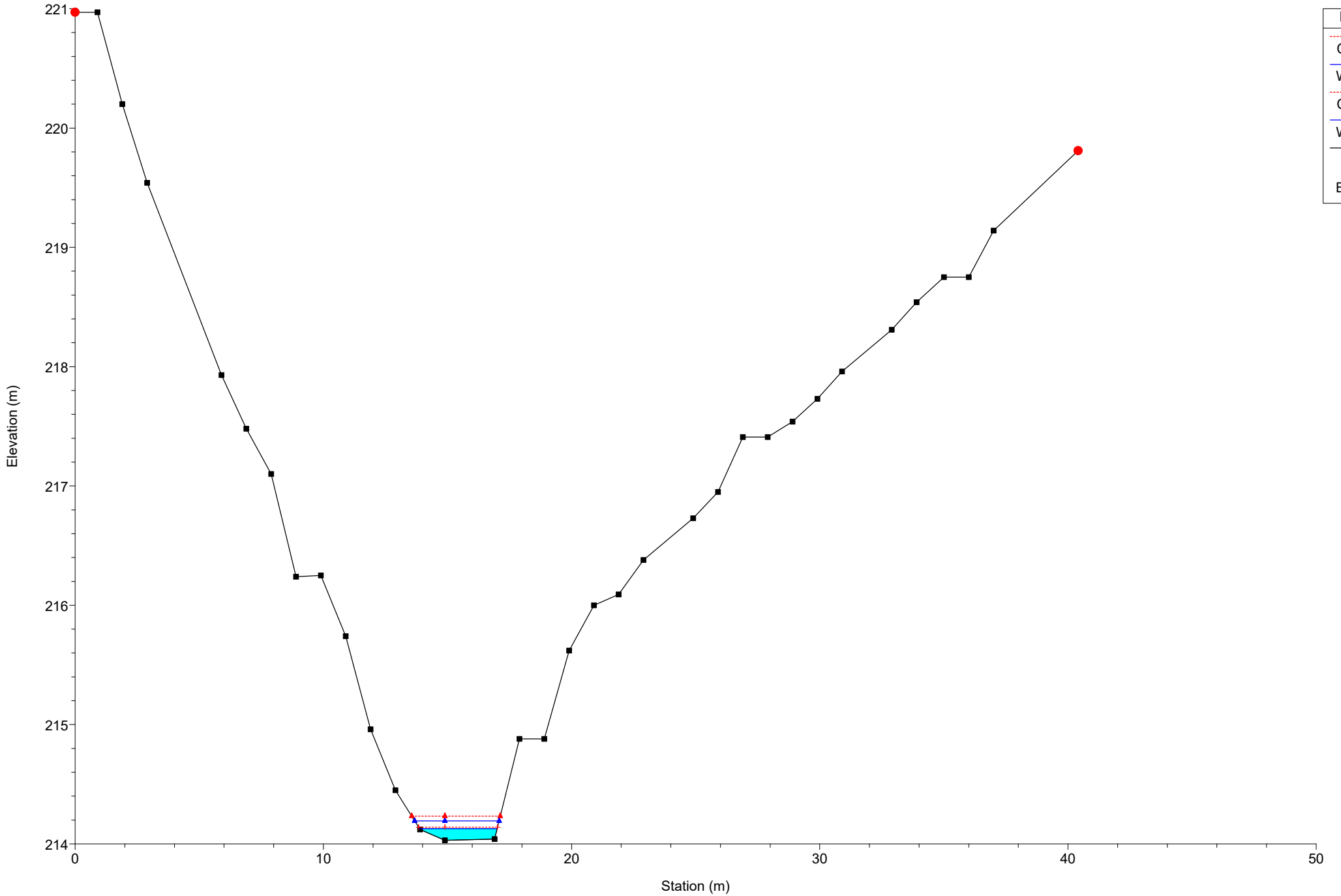
River = River 3 Reach = Reach 3 RS = 347



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

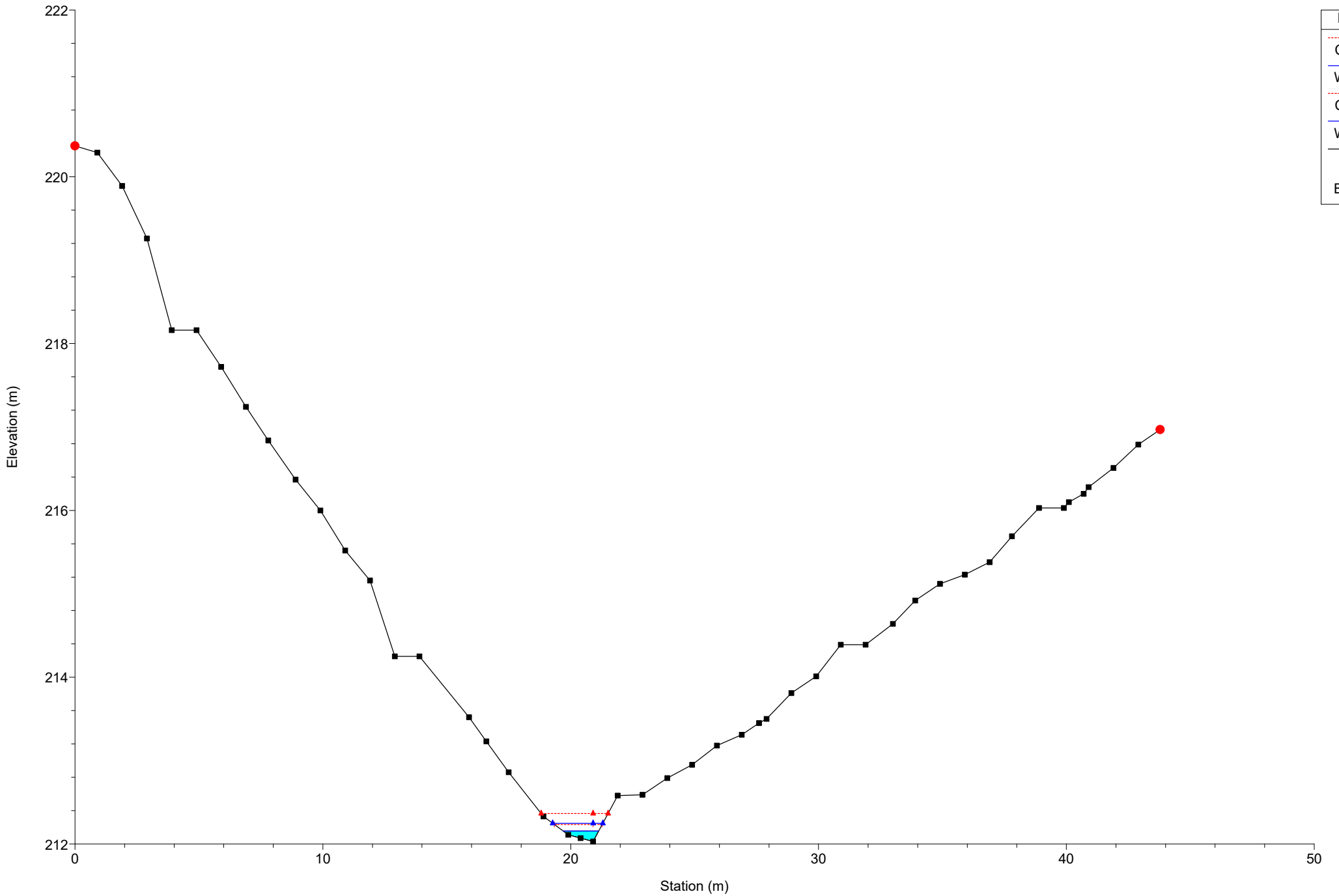
River = River 3 Reach = Reach 3 RS = 329



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

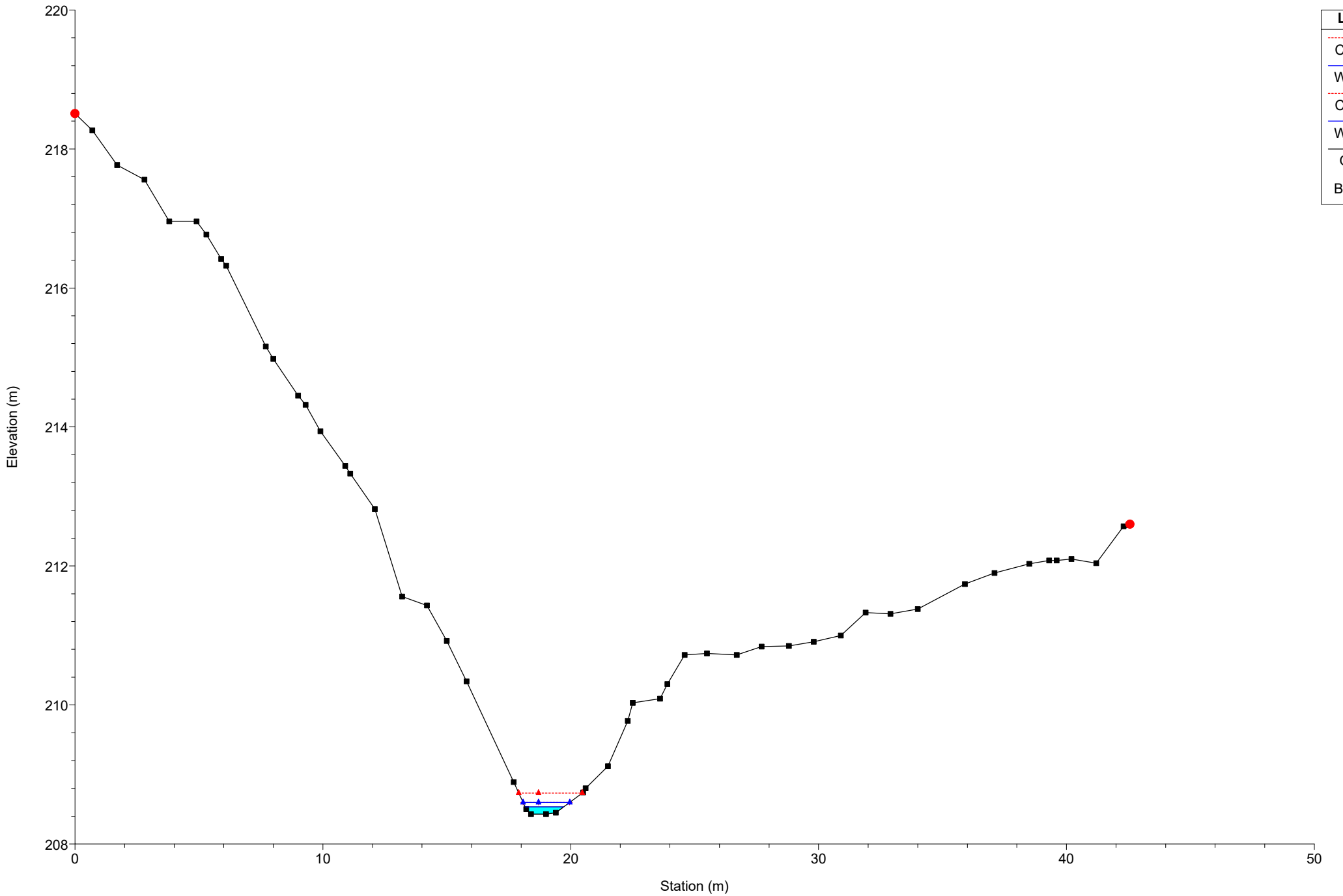
River = River 3 Reach = Reach 3 RS = 308



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 3 Reach = Reach 3 RS = 287

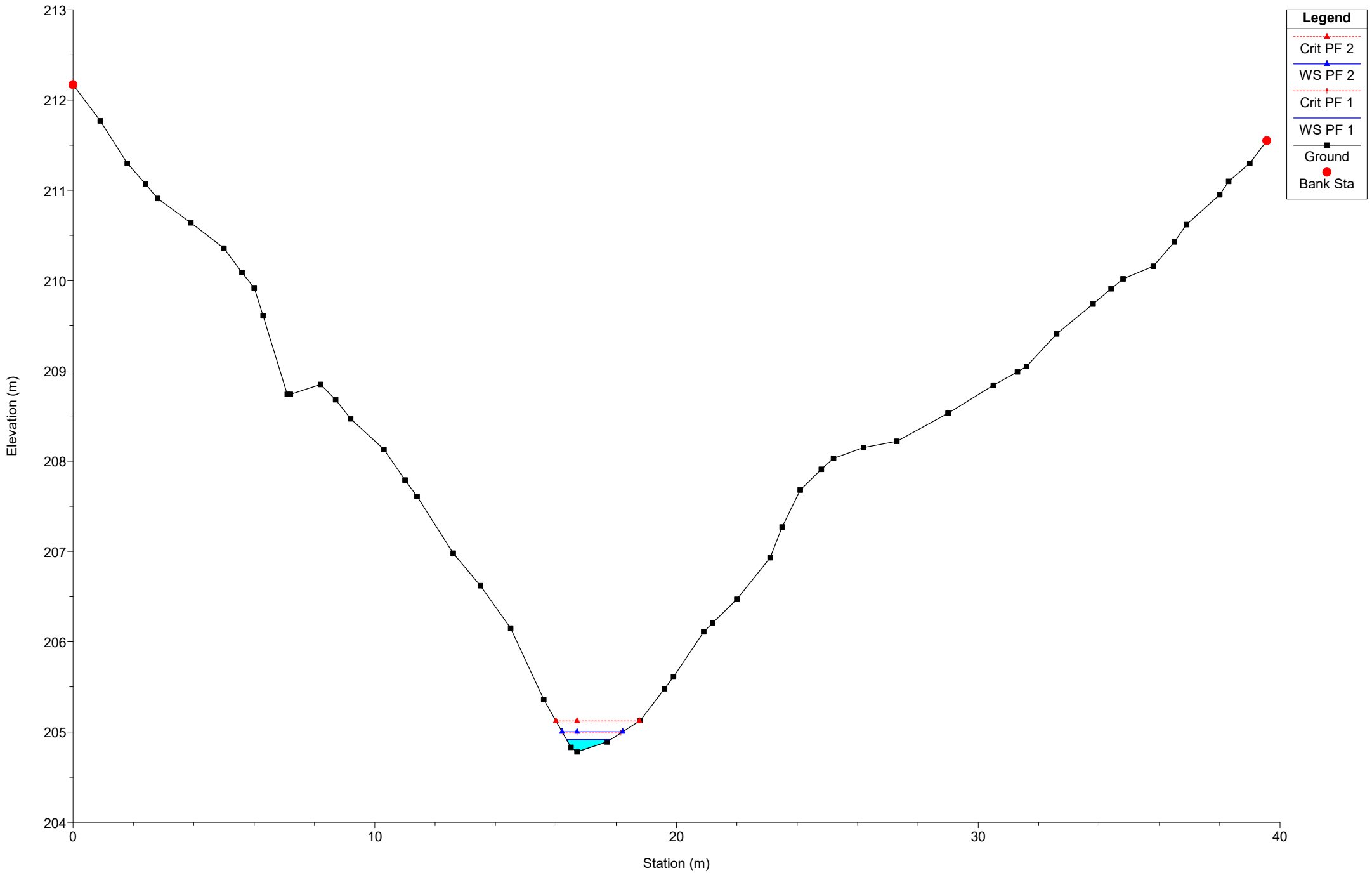




1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

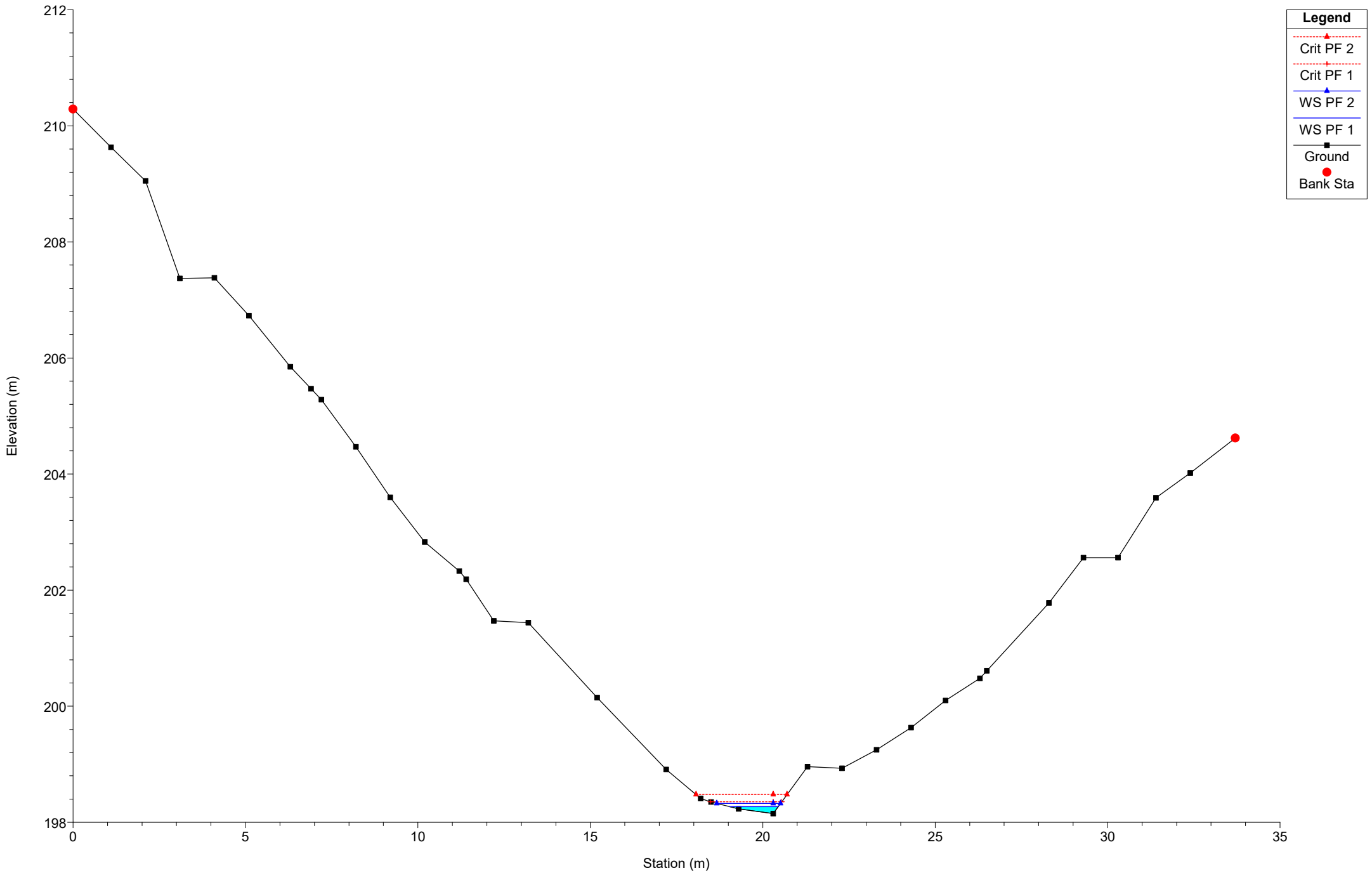
River = River 3 Reach = Reach 3 RS = 265



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

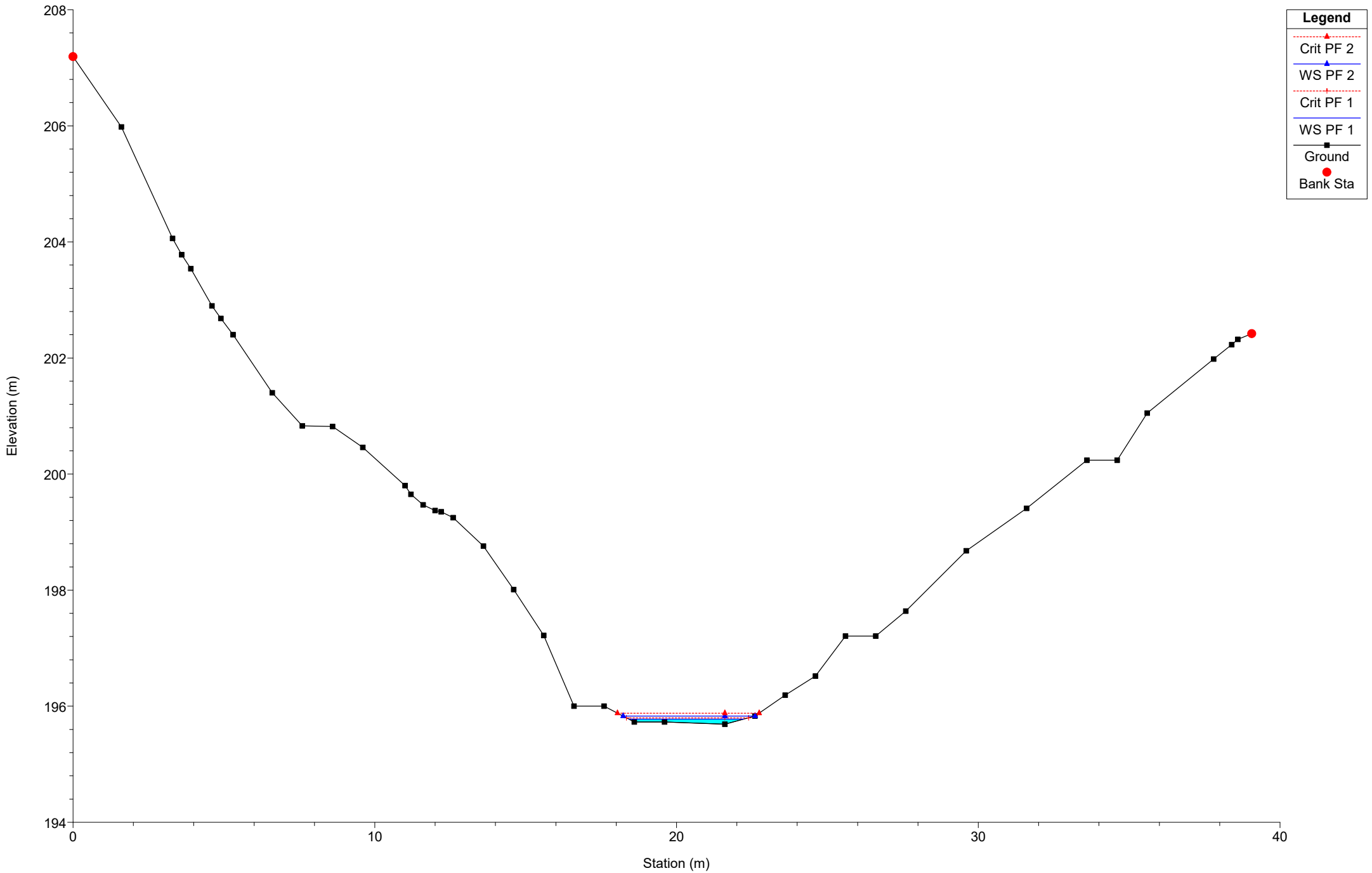
River = River 3 Reach = Reach 3 RS = 239



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

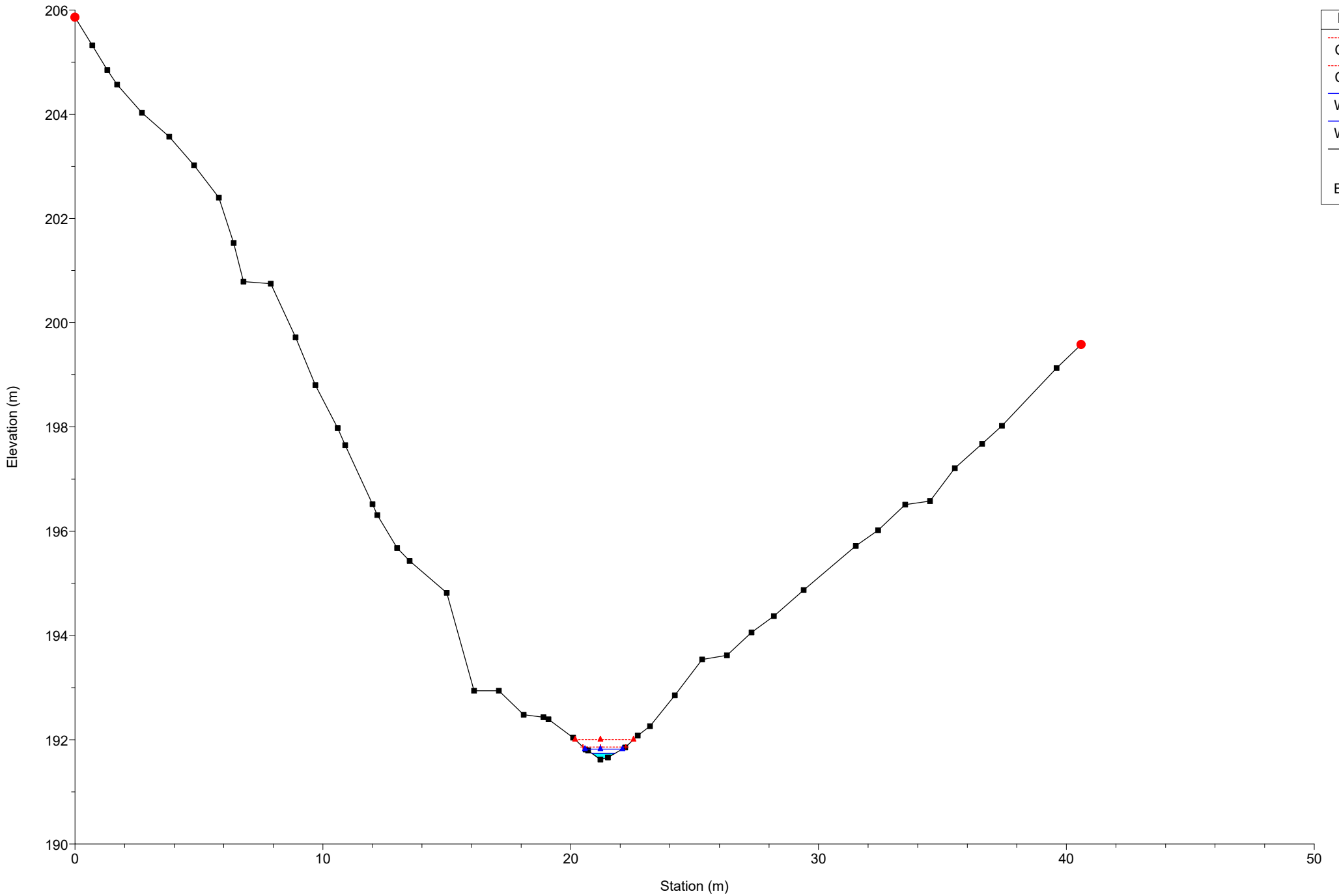
River = River 3 Reach = Reach 3 RS = 219



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

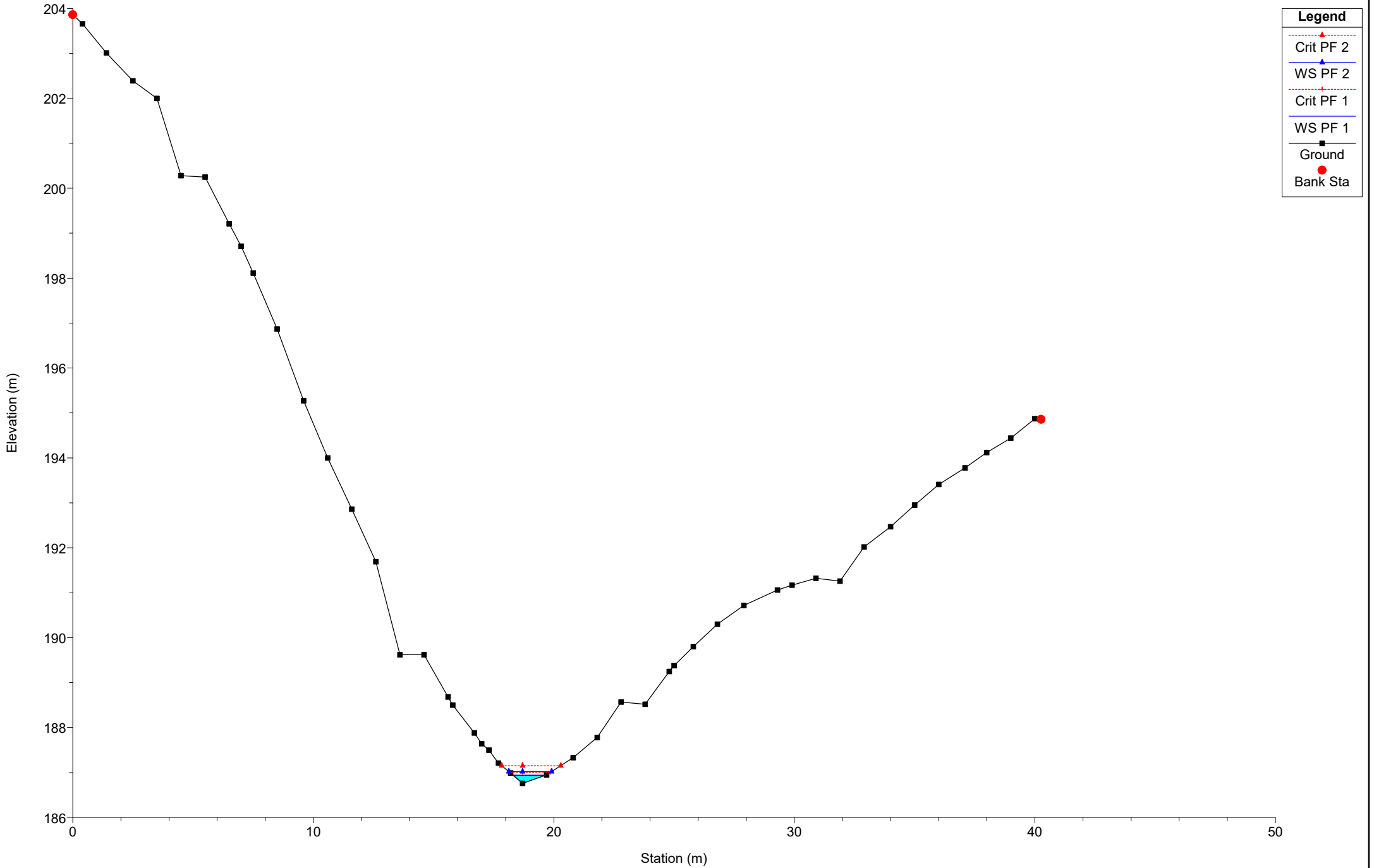
River = River 3 Reach = Reach 3 RS = 201



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

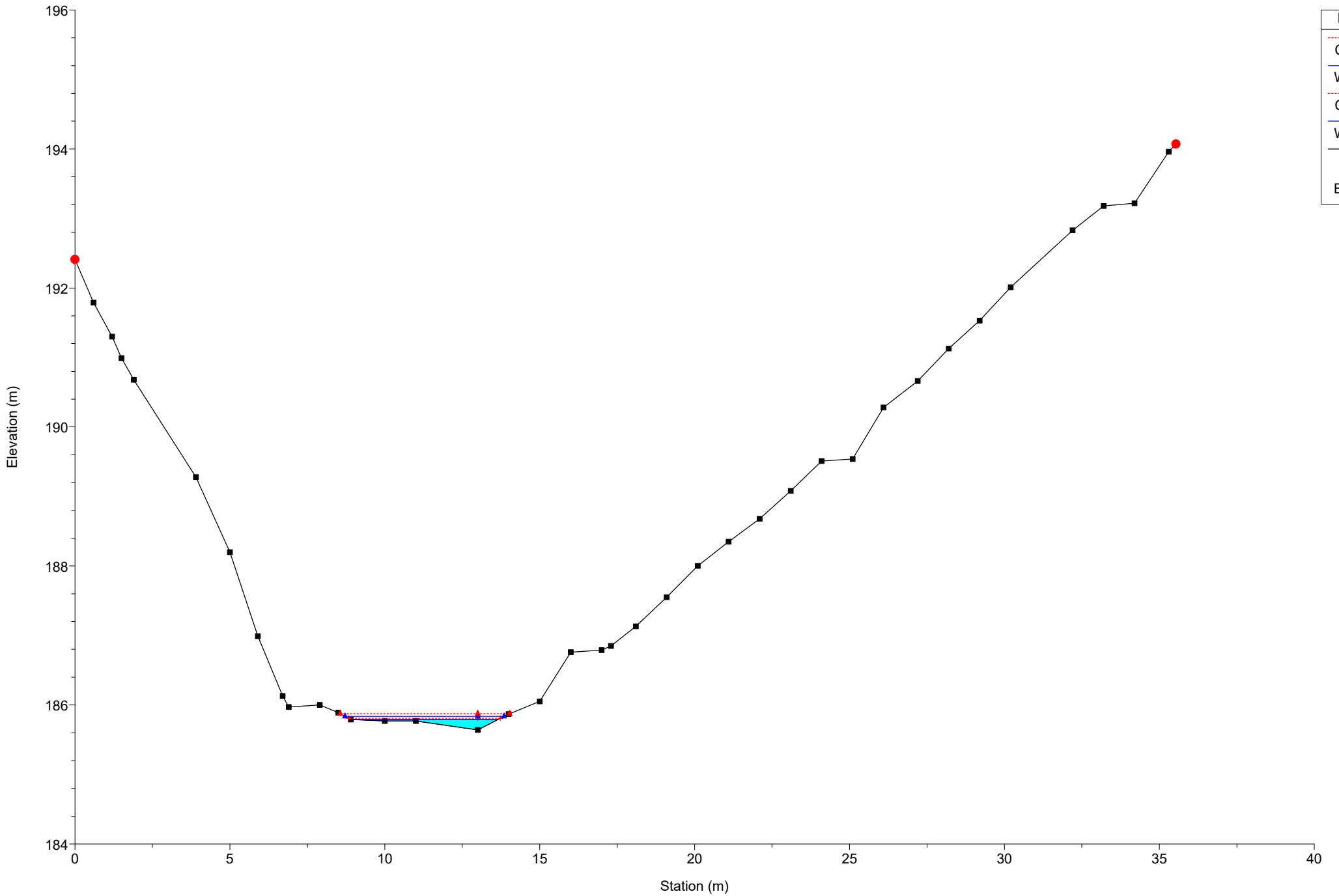
River = River 3 Reach = Reach 3 RS = 180



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

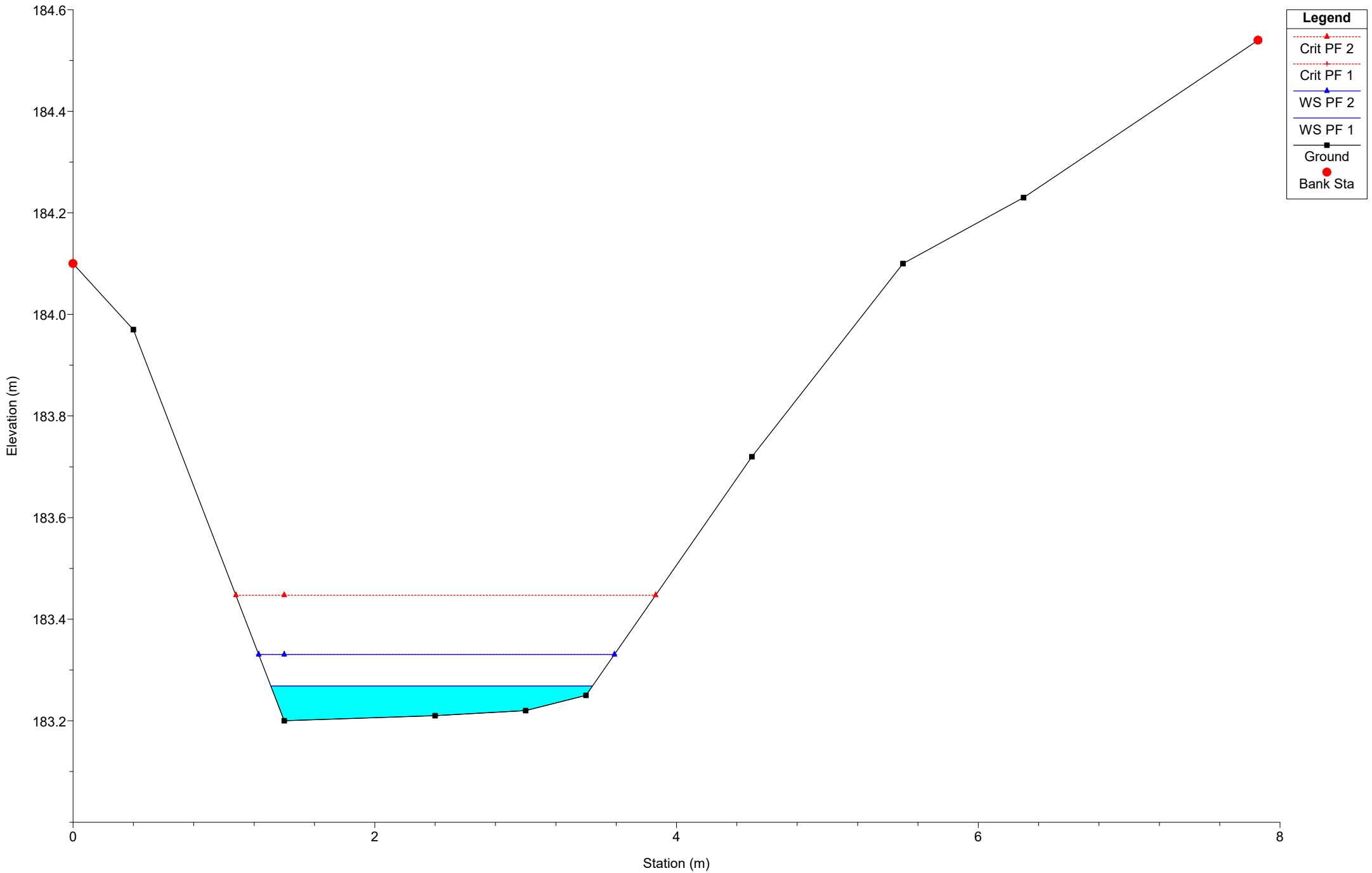
River = River 3 Reach = Reach 3 RS = 165



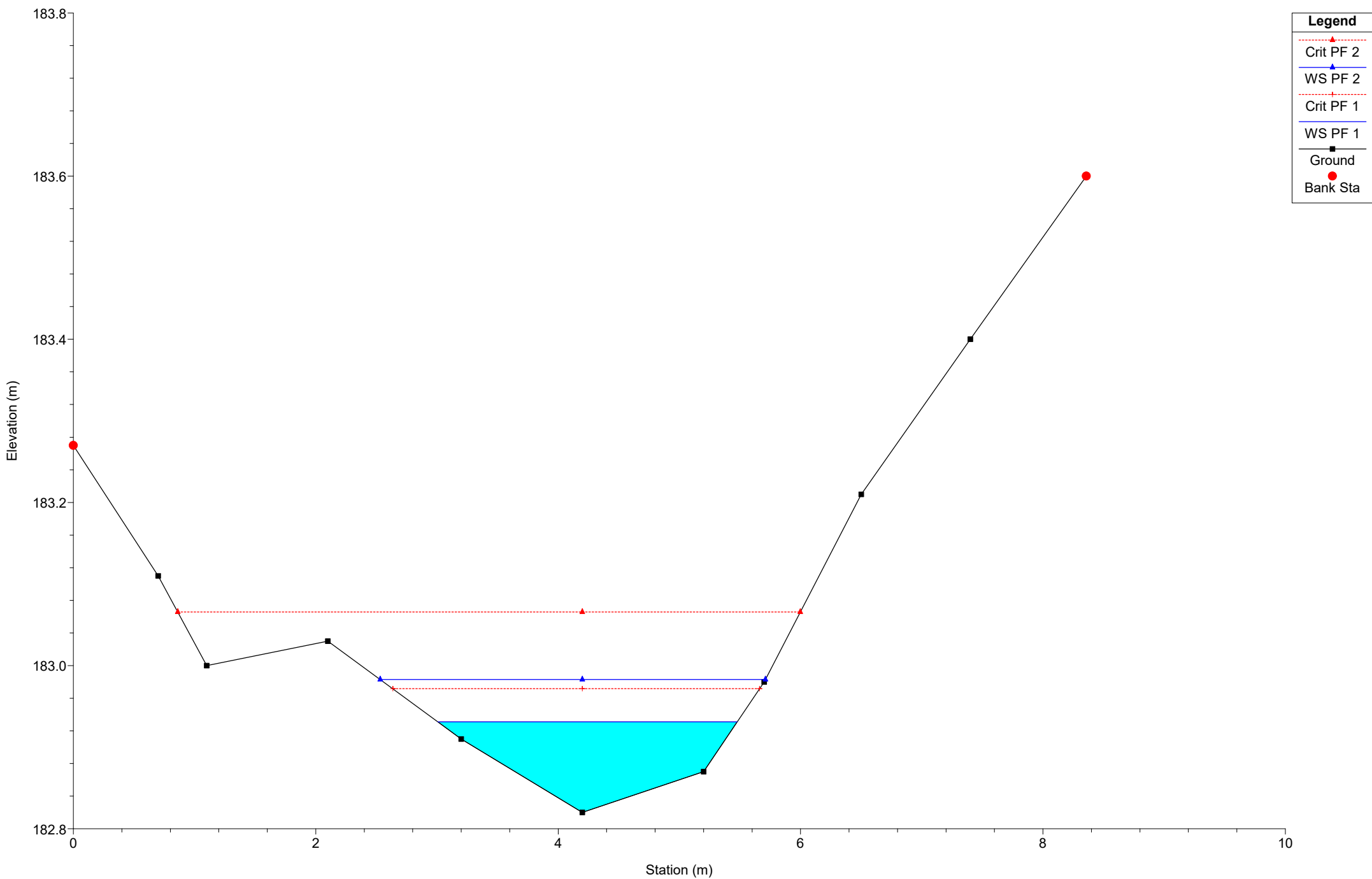
1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 3 Reach = Reach 3 RS = 146

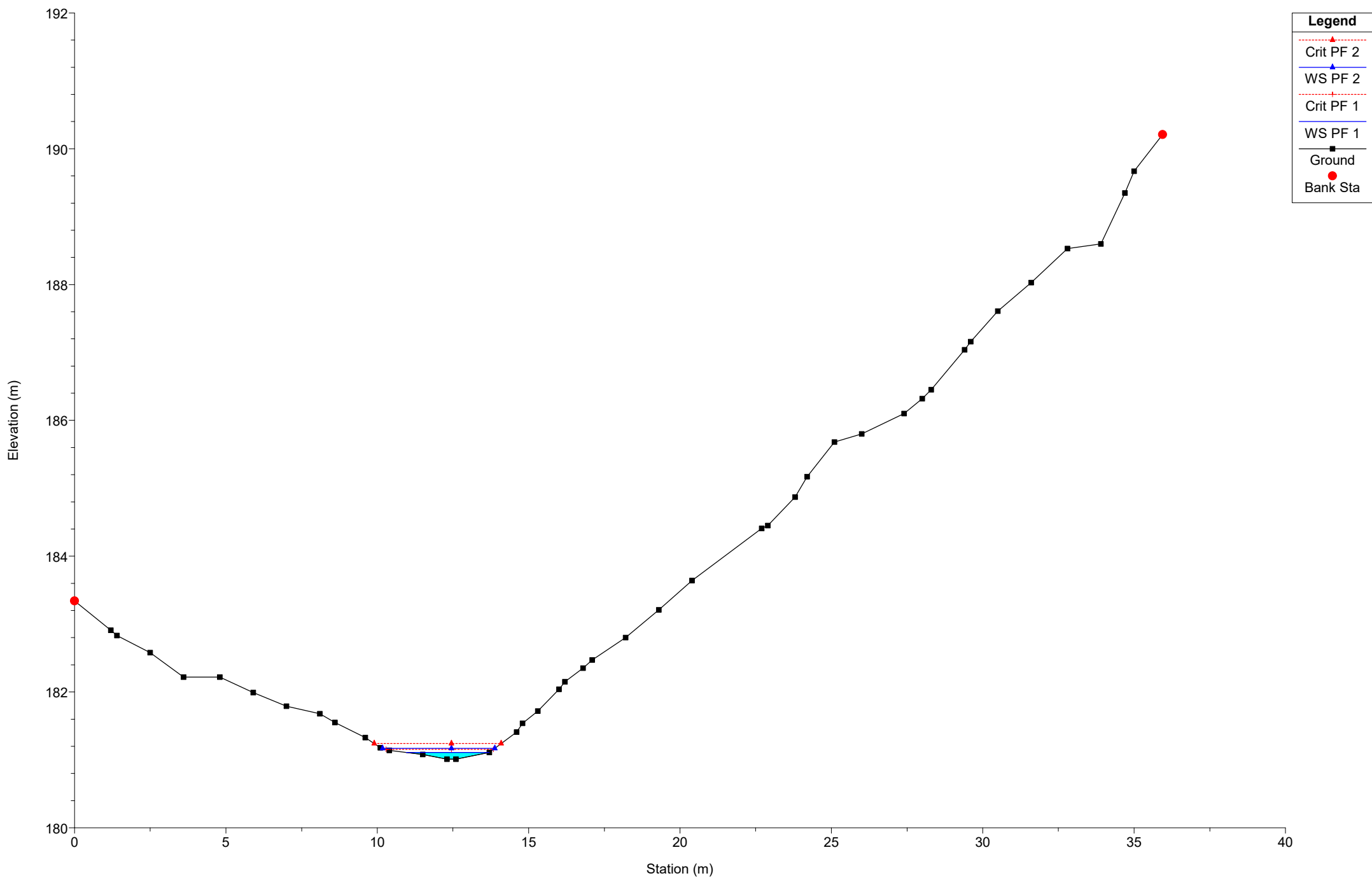


1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower RS = 140

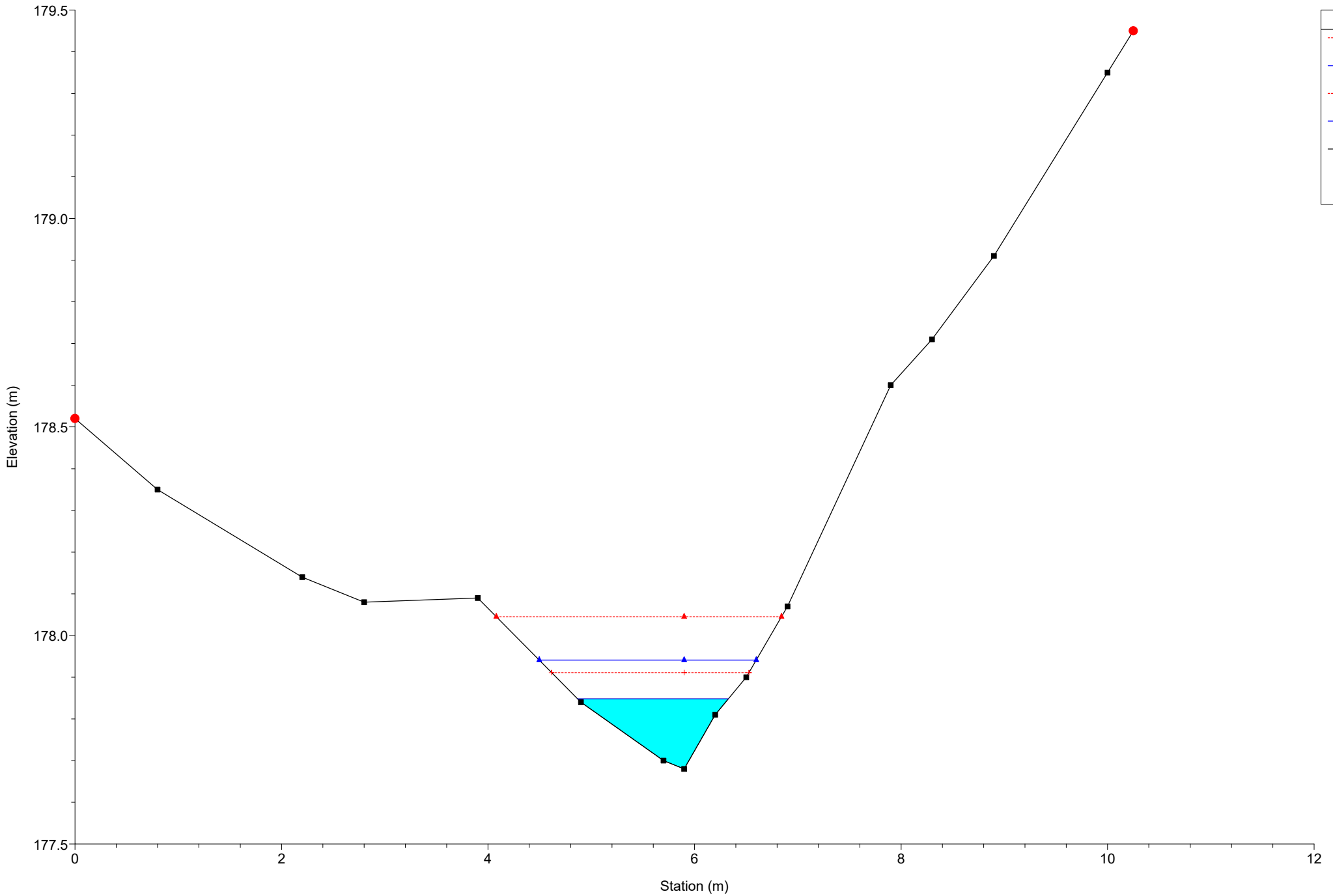




1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower RS = 127

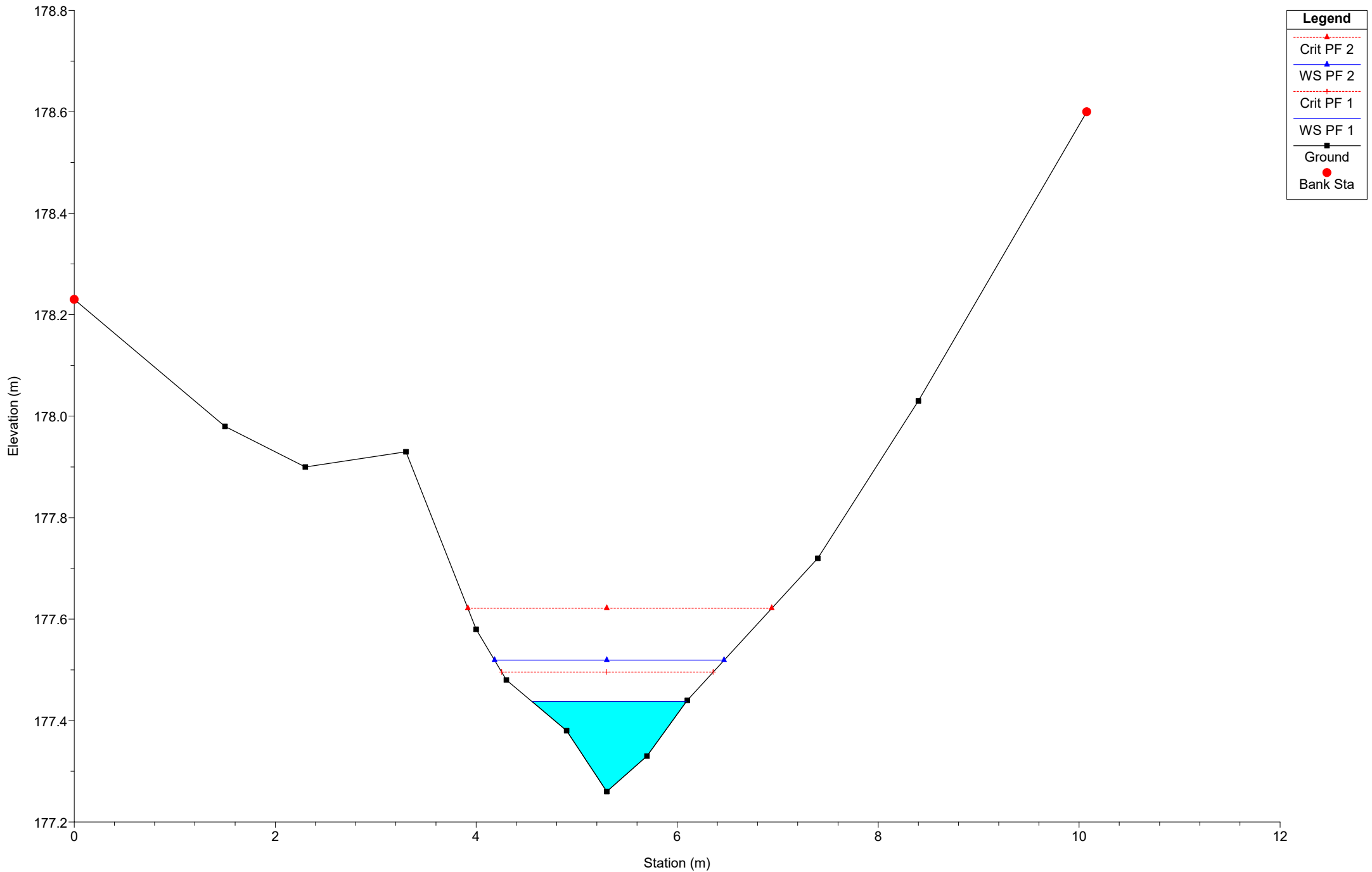


1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 105

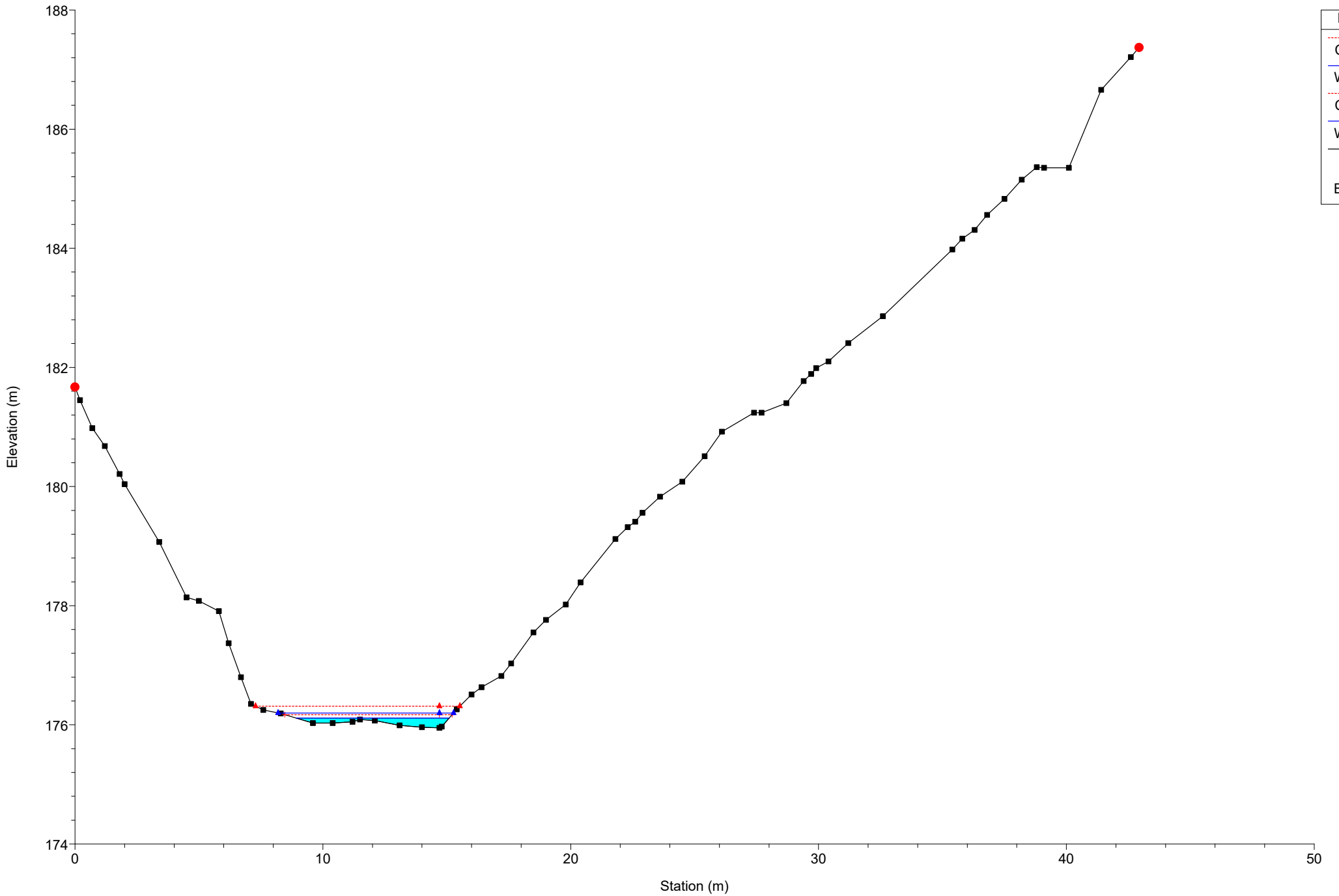


| Legend  |           |
|---------|-----------|
| ---▲--- | Crit PF 2 |
| ---▲--- | WS PF 2   |
| ---▲--- | Crit PF 1 |
| ---▲--- | WS PF 1   |
| ■       | Ground    |
| ●       | Bank Sta  |

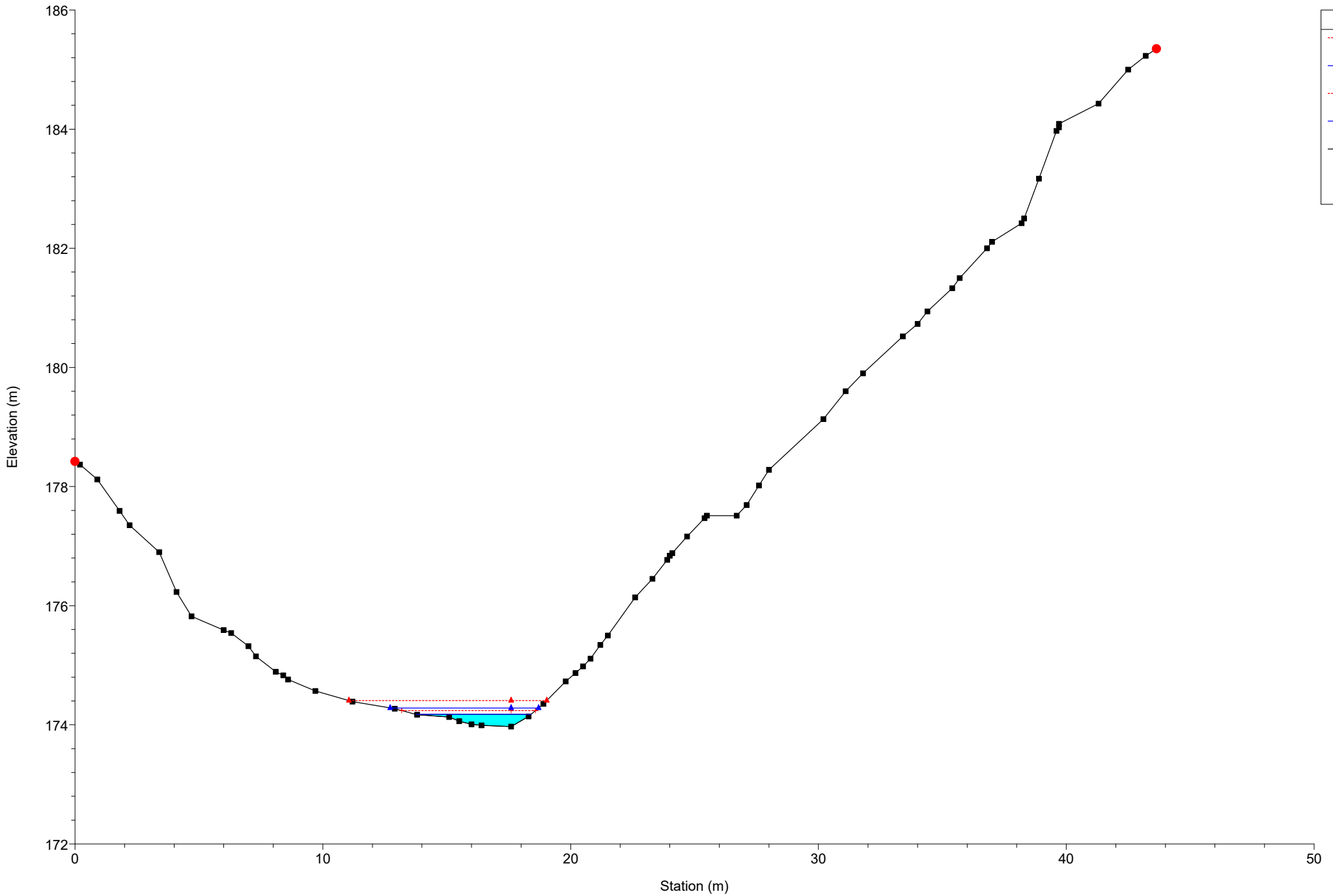
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 101



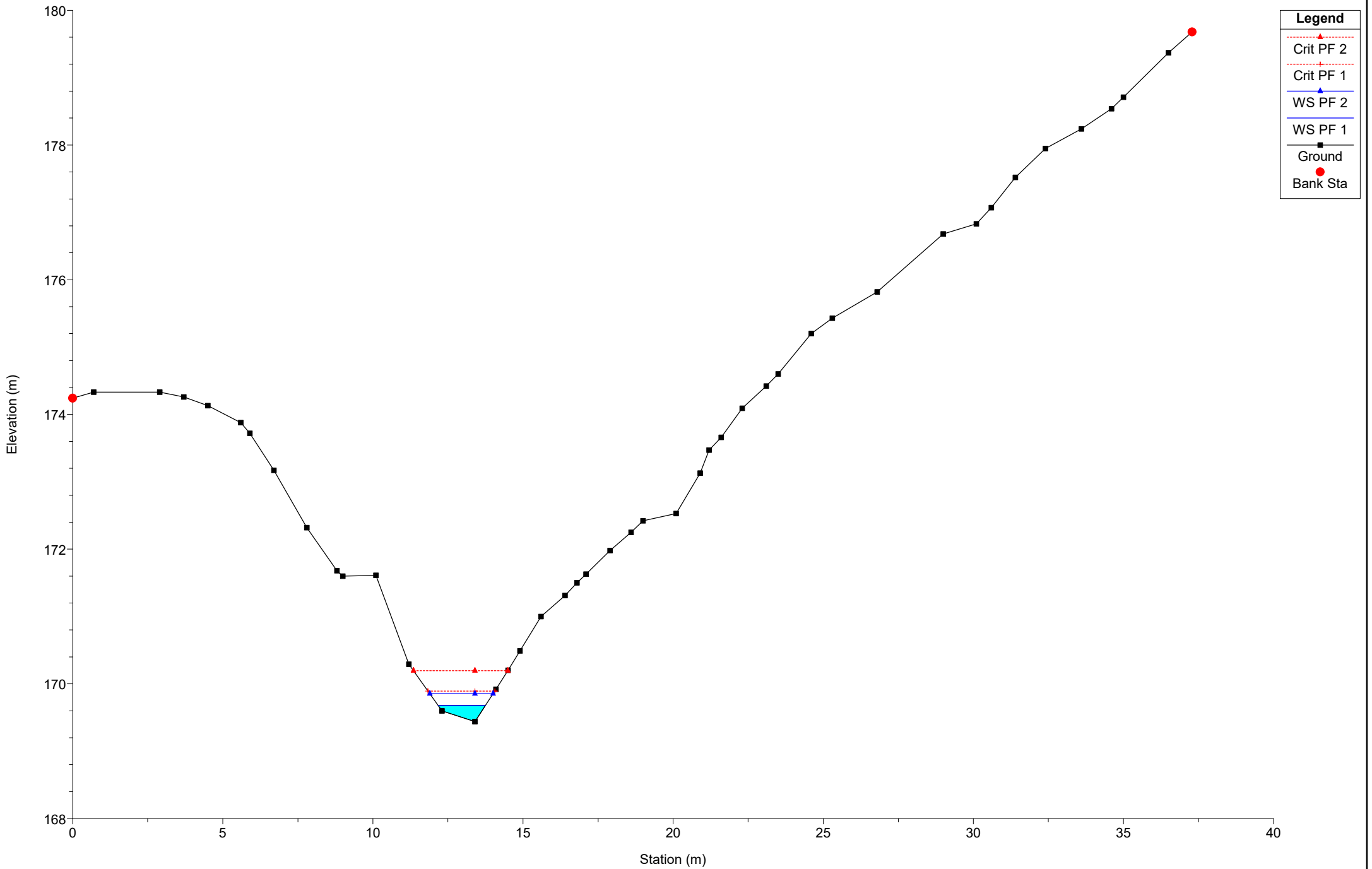
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 89



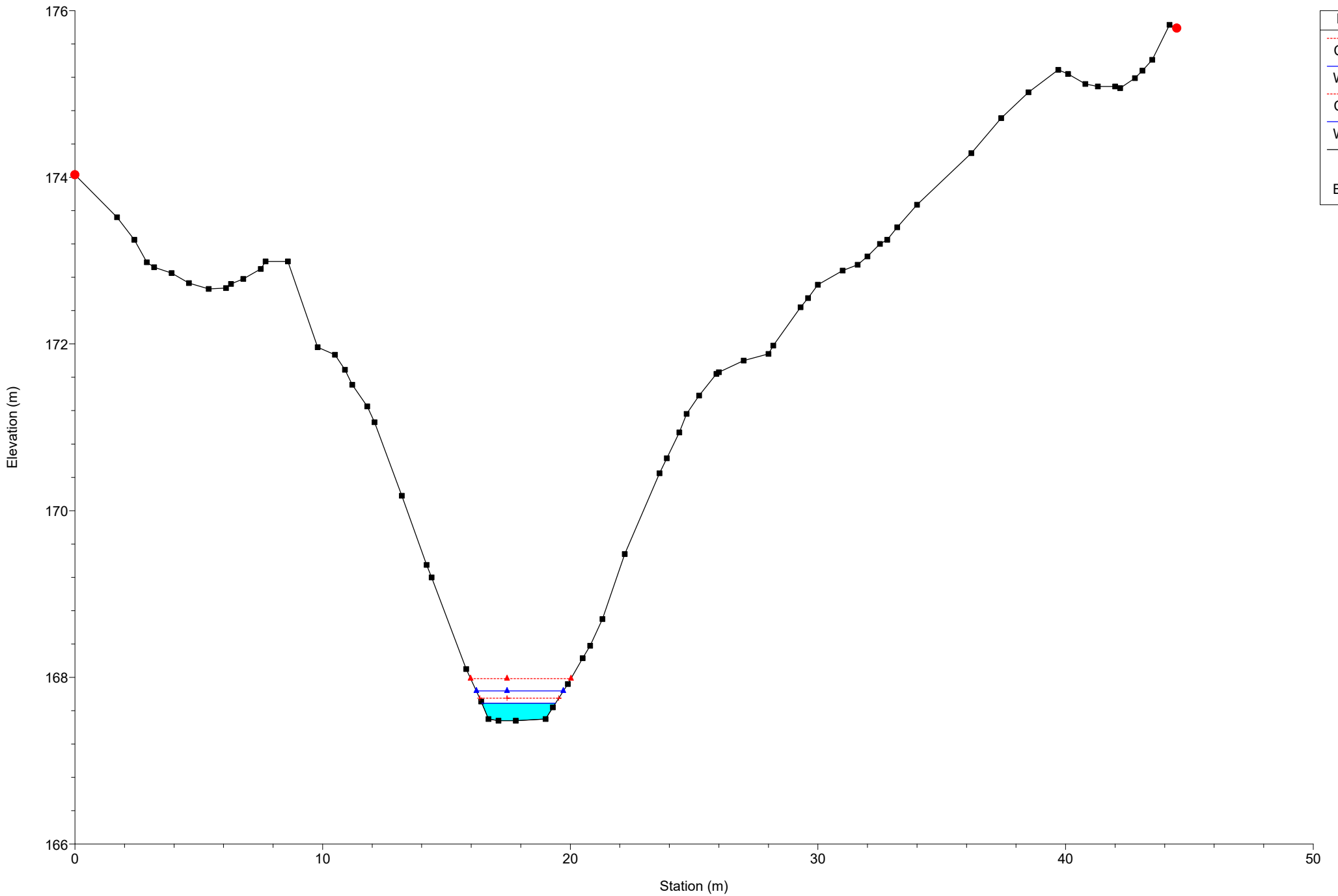
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 68



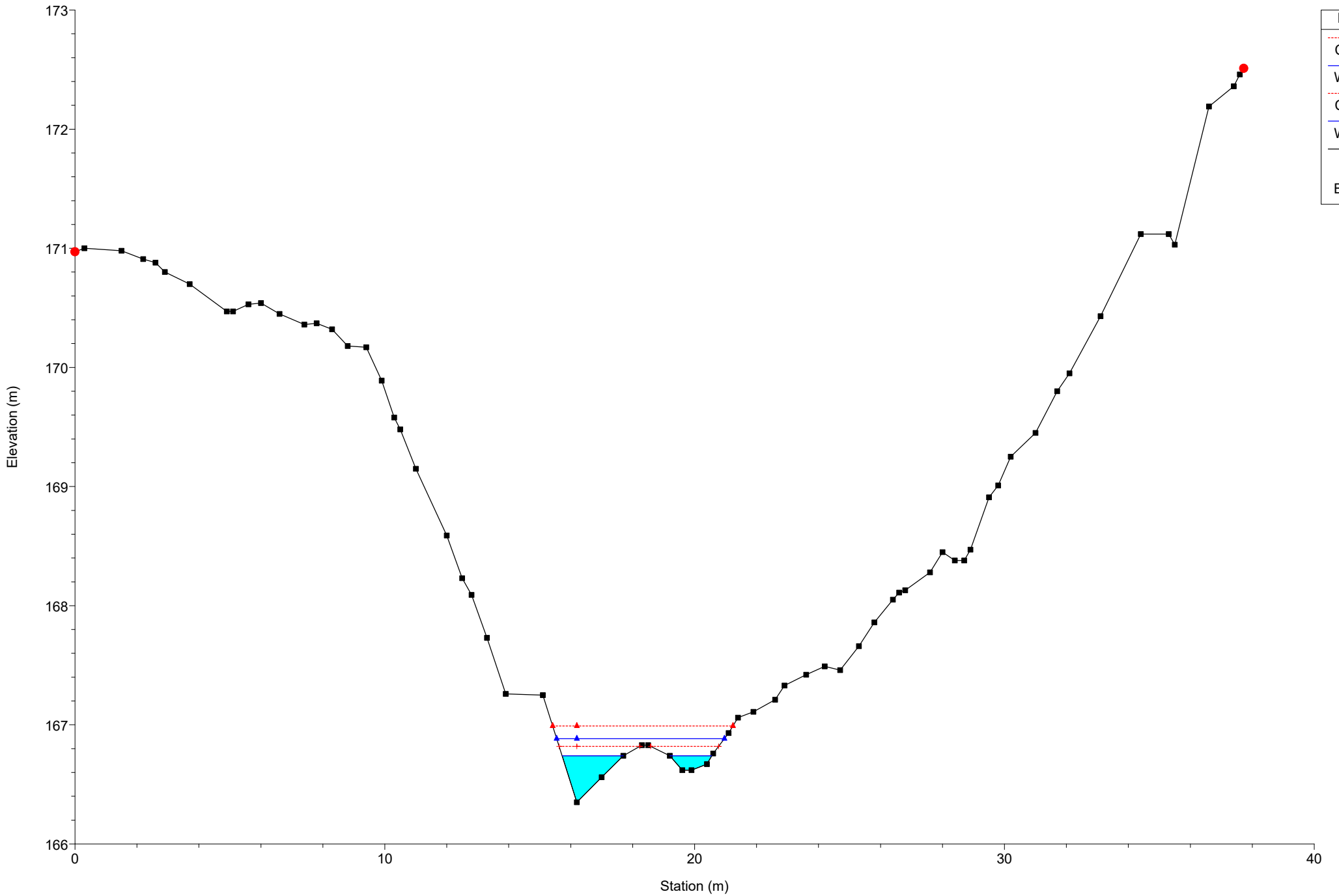
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 45



1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 18



1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3-Lower-Lo RS = 1

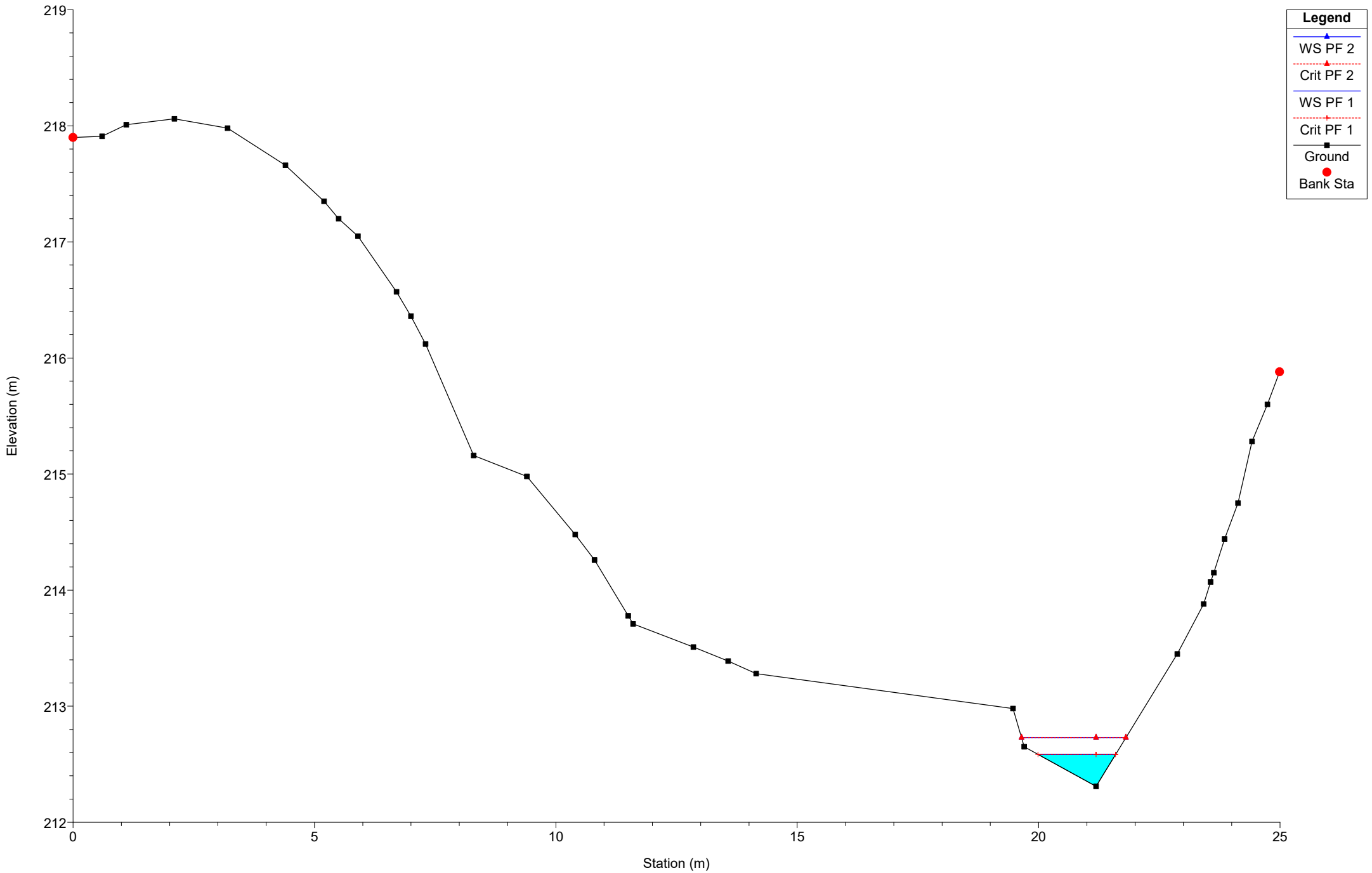




1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

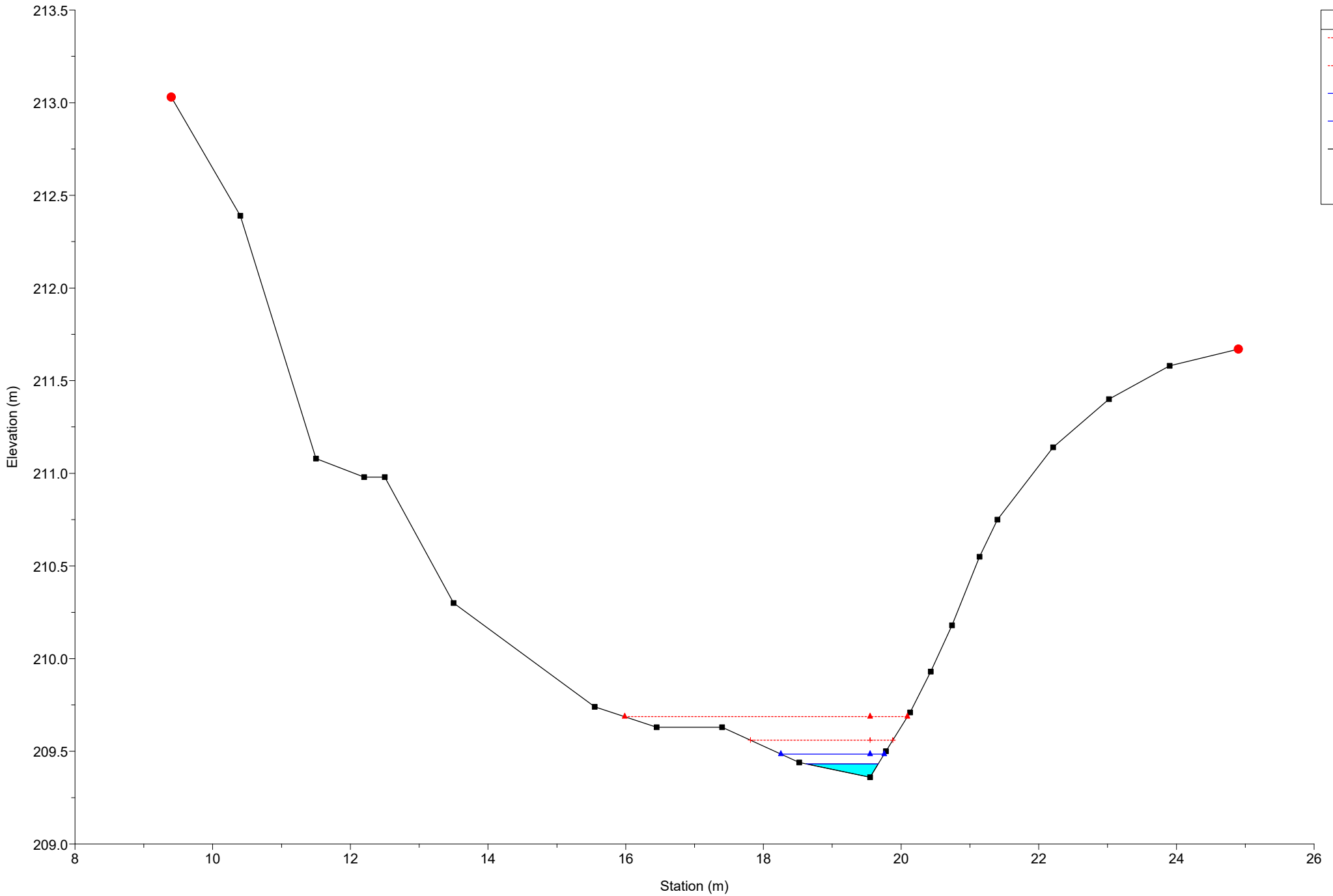
River = River 4 Reach = Reach 4 RS = 63



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 4 Reach = Reach 4 RS = 57



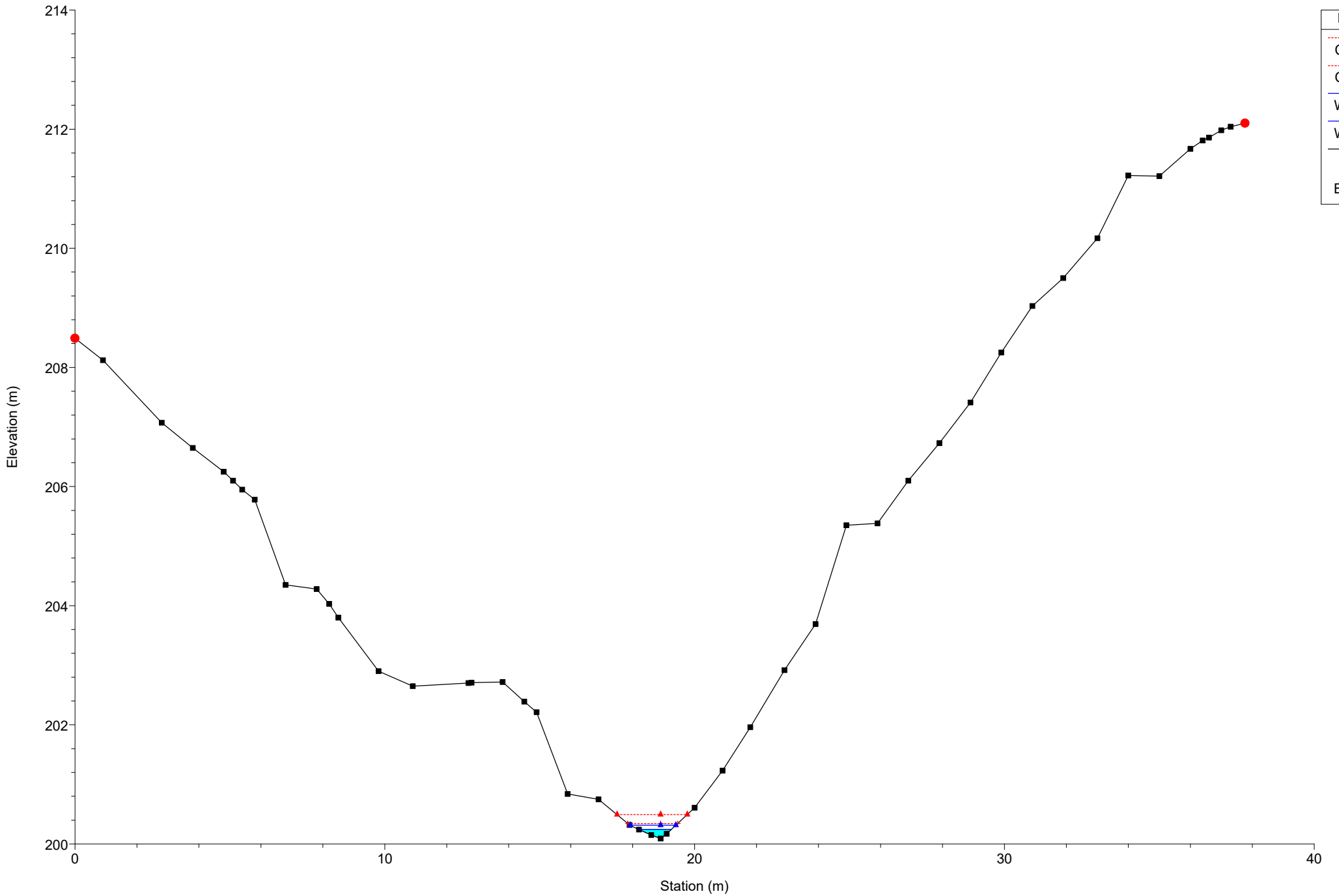
**Legend**

- Crit PF 2 (Red dashed line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)

1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

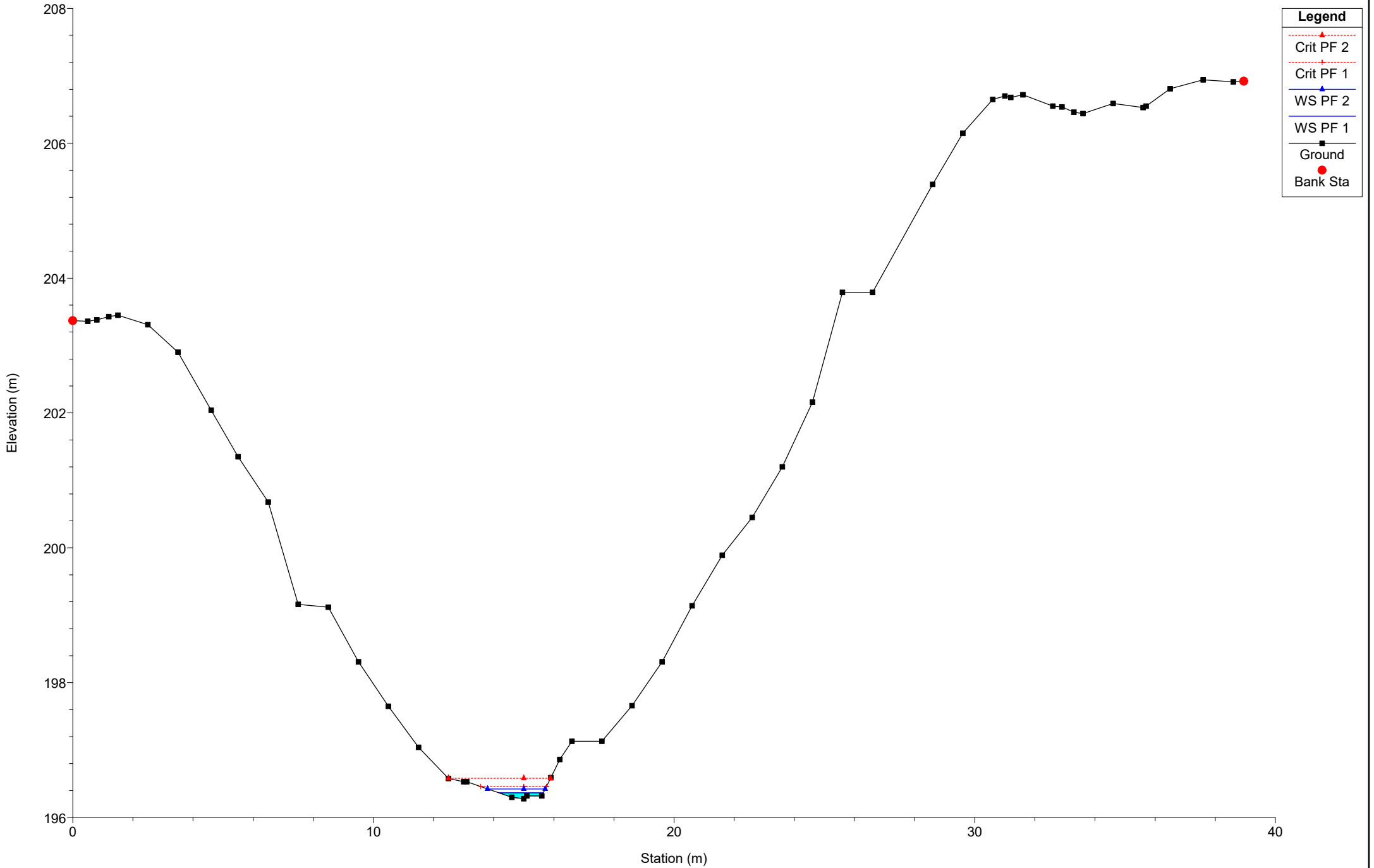
River = River 4 Reach = Reach 4 RS = 43



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

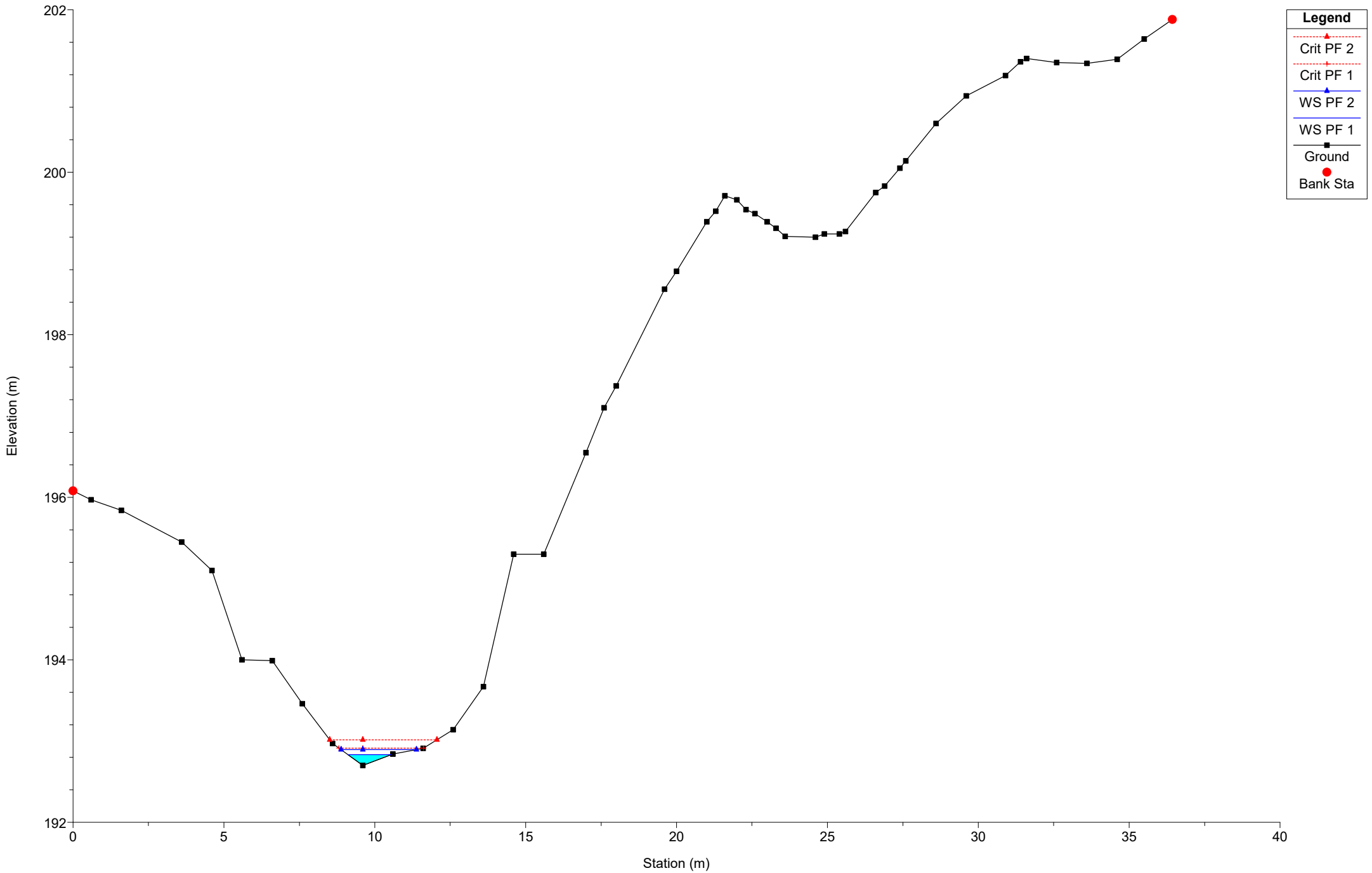
River = River 4 Reach = Reach 4 RS = 35



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

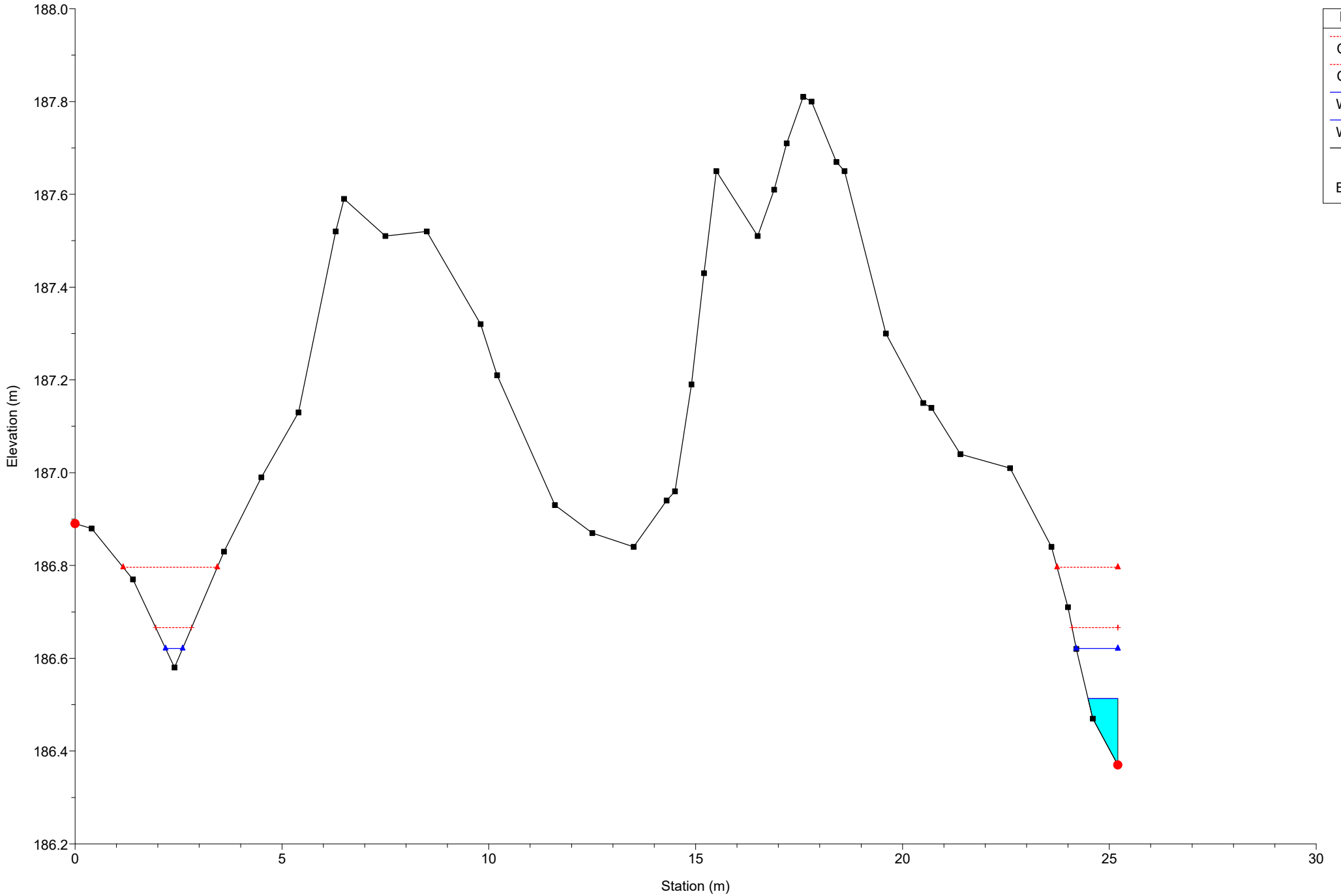
River = River 4 Reach = Reach 4 RS = 27



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

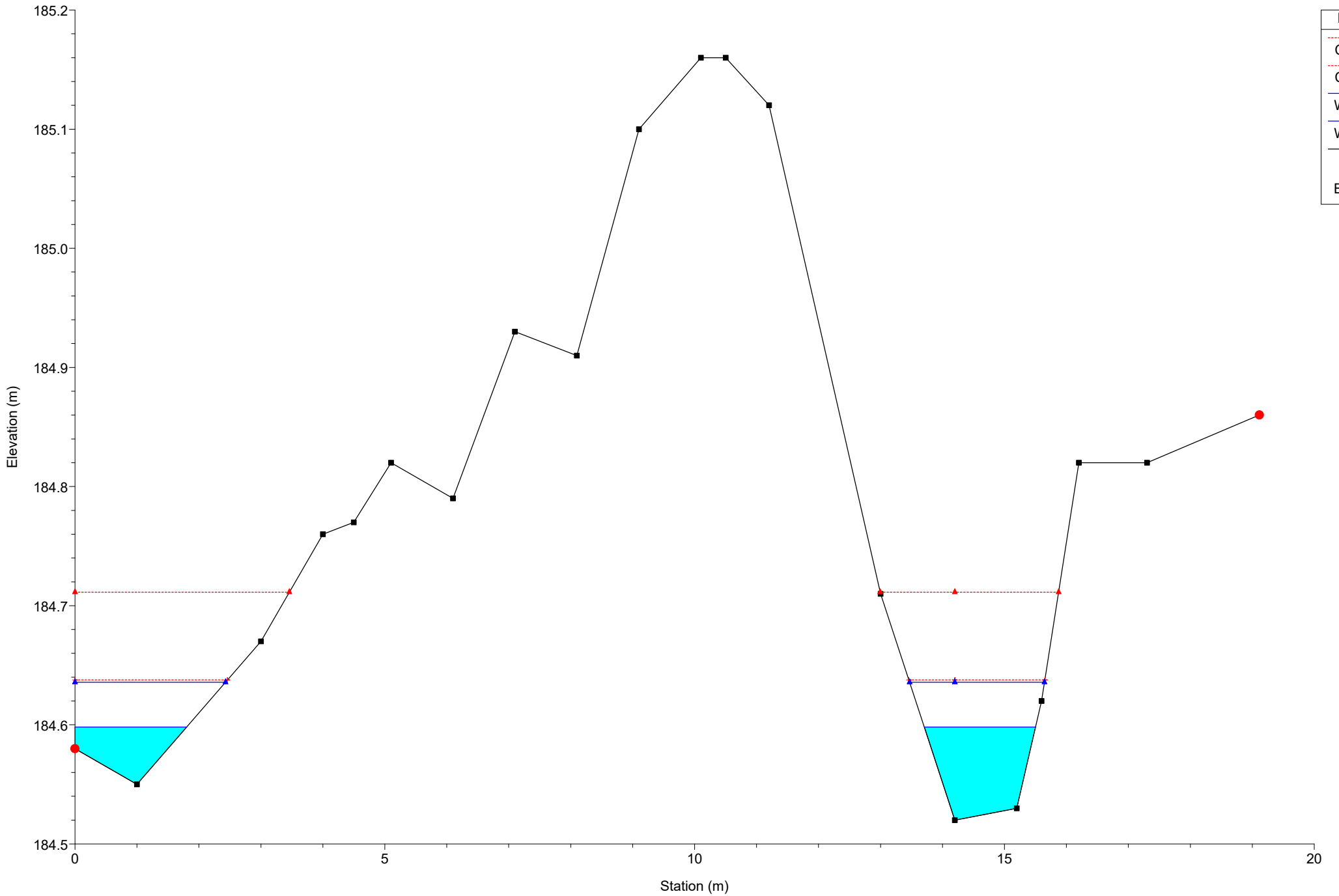
River = River 4 Reach = Reach 4 RS = 15



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

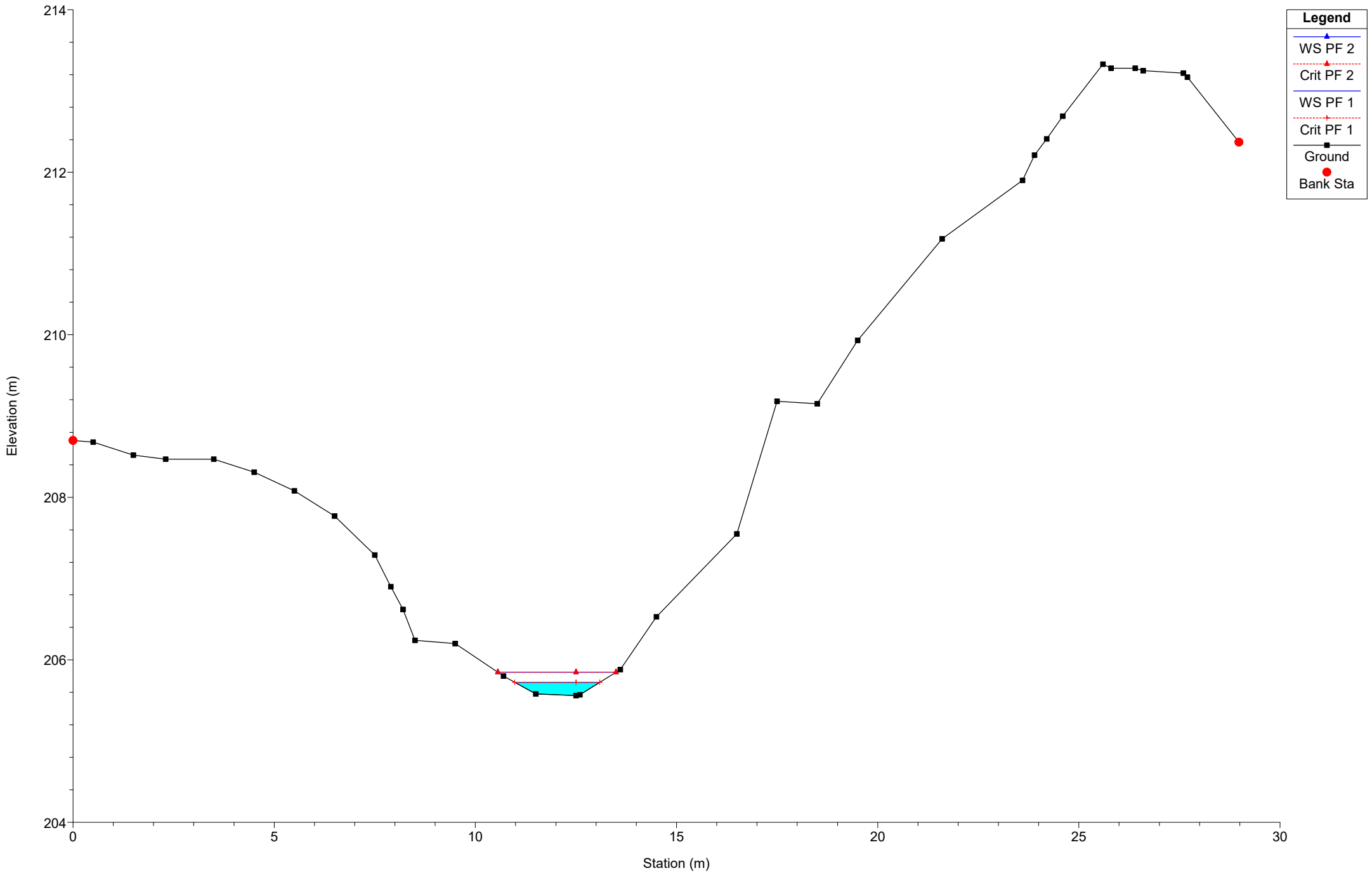
River = River 4 Reach = Reach 4 RS = 8



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 5 Reach = Reach 5 RS = 65

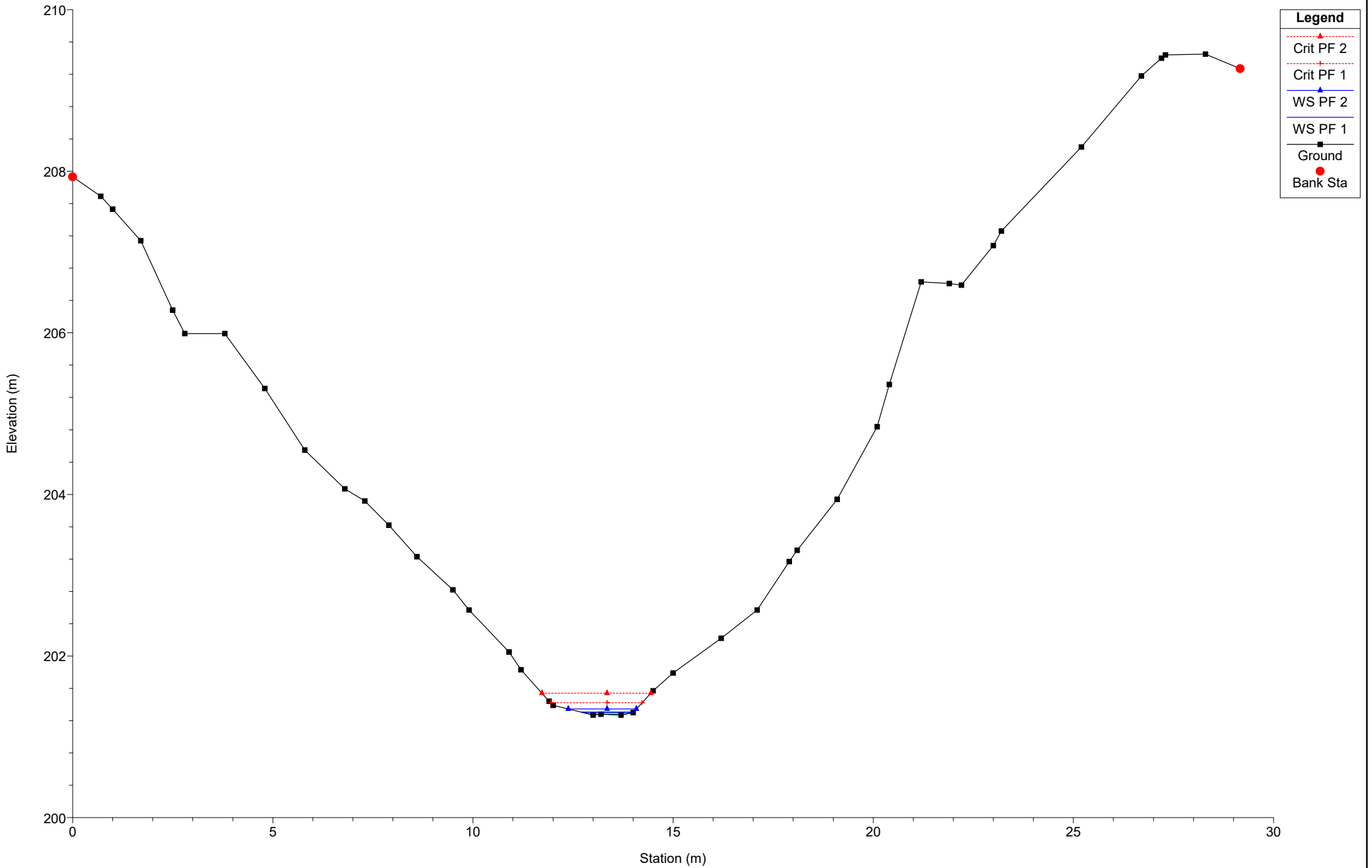




1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

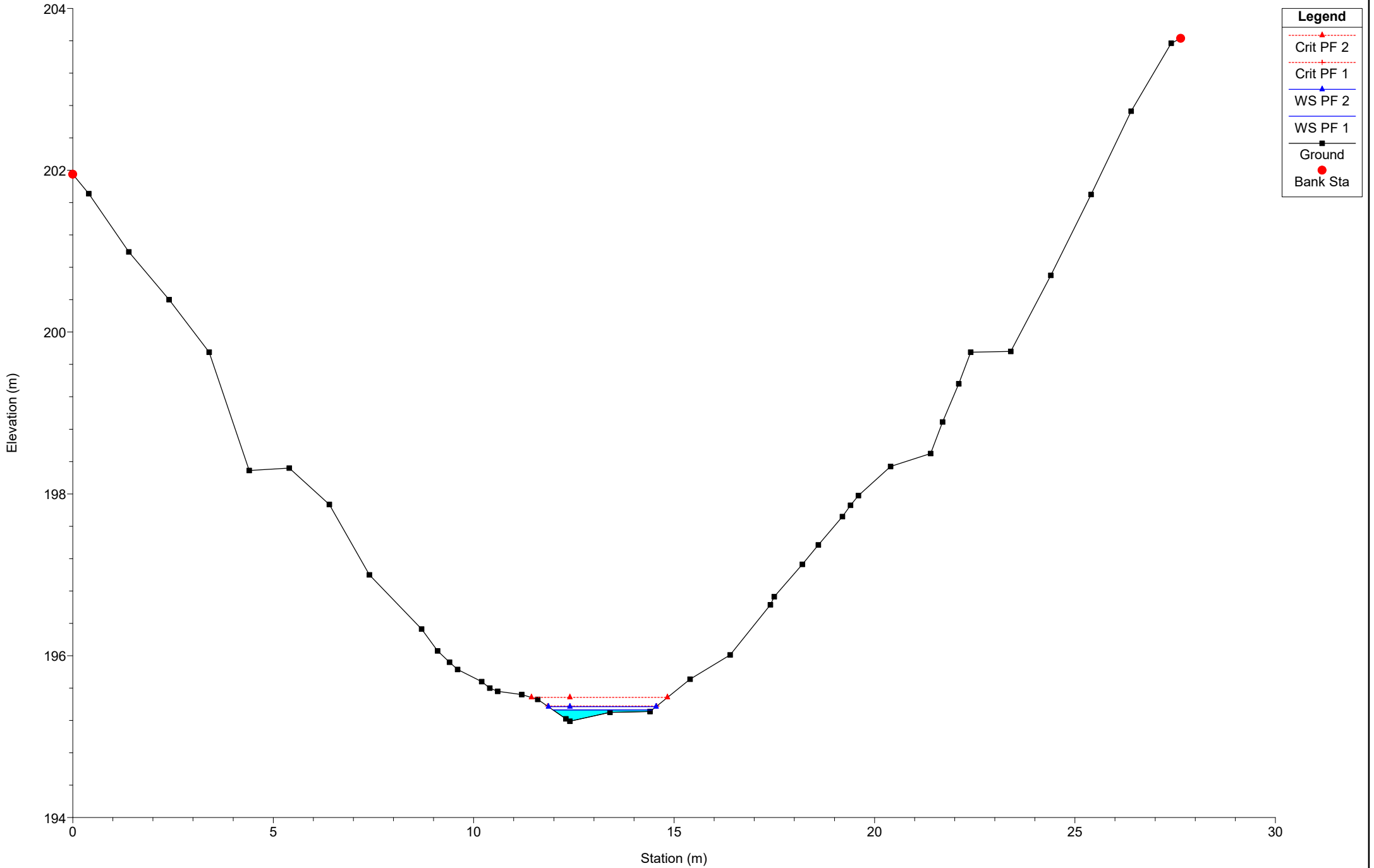
River = River 5 Reach = Reach 5 RS = 56



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

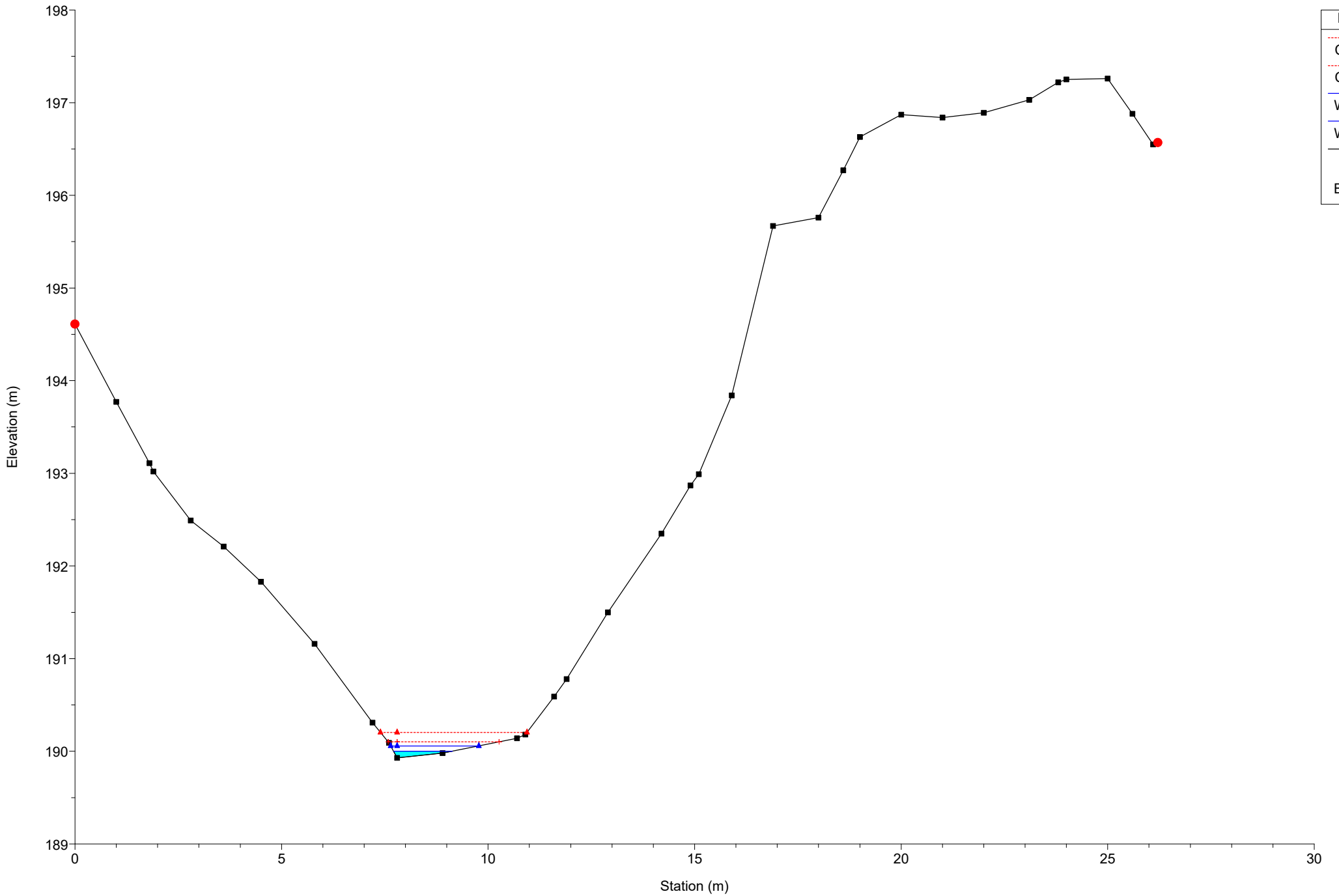
River = River 5 Reach = Reach 5 RS = 44



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 5 Reach = Reach 5 RS = 34



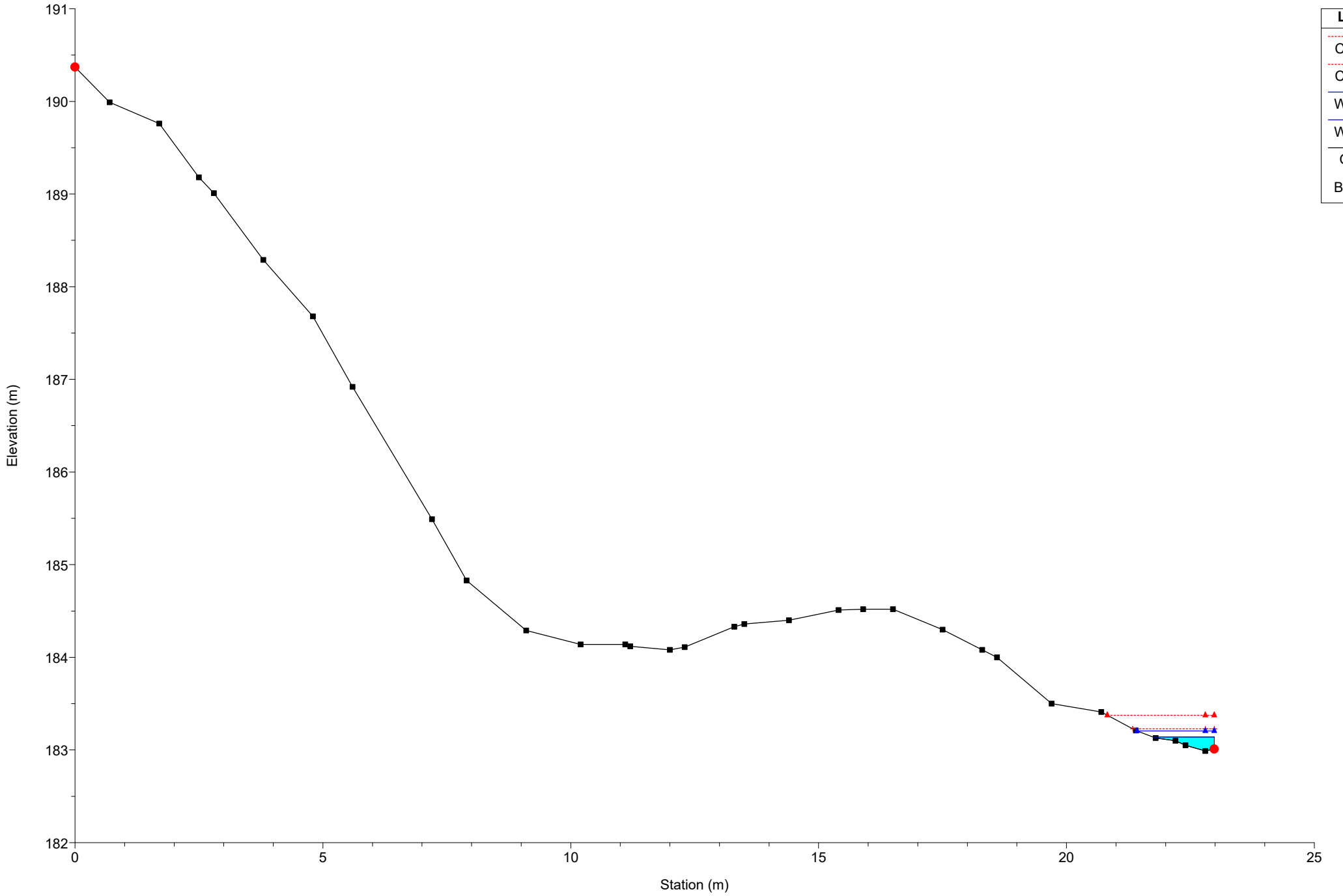
**Legend**

- Crit PF 2 (dashed red line with triangle)
- Crit PF 1 (dashed red line with triangle)
- WS PF 2 (solid blue line with triangle)
- WS PF 1 (solid blue line with triangle)
- Ground (solid black line with square)
- Bank Sta (red circle)

1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

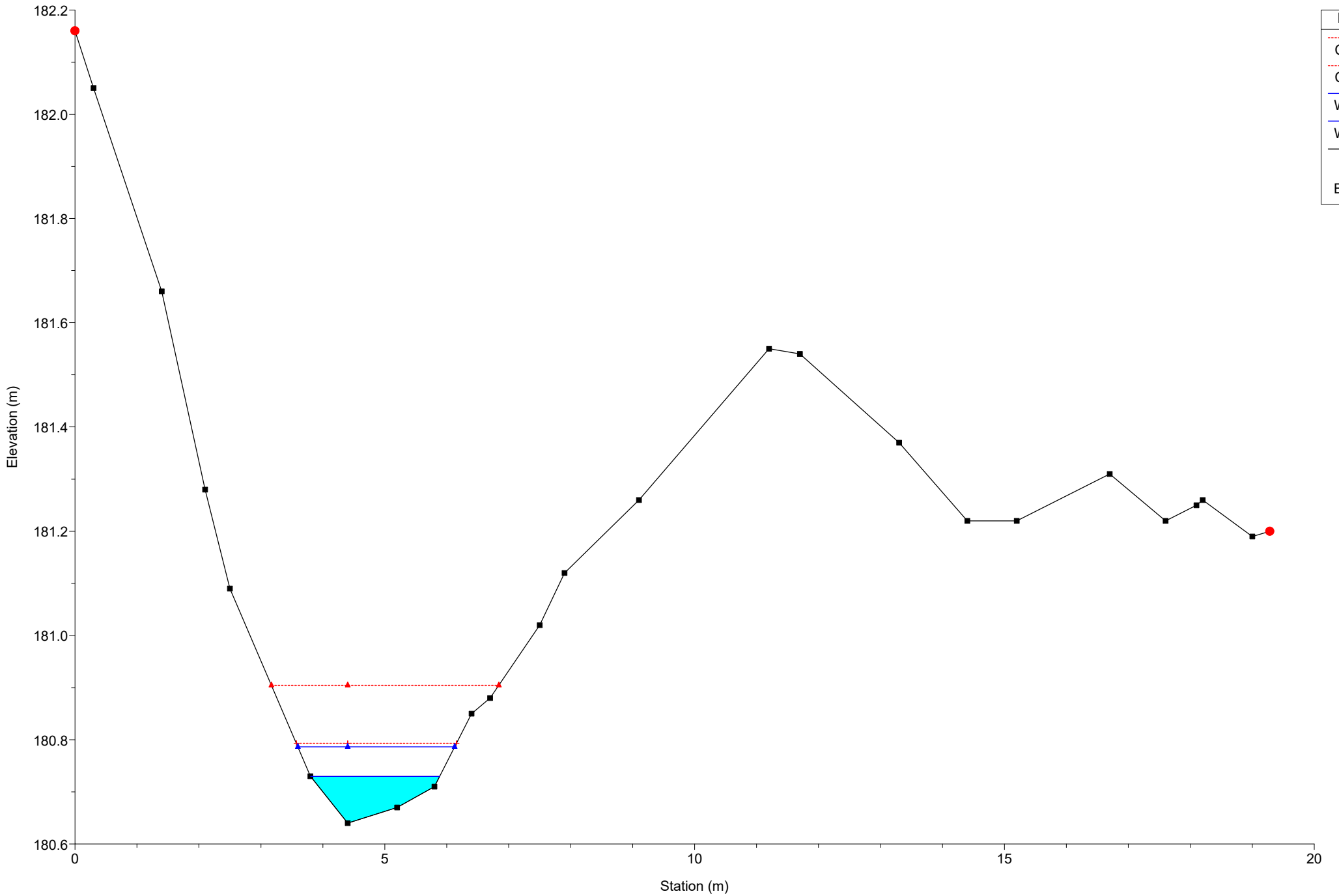
River = River 5 Reach = Reach 5 RS = 21



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

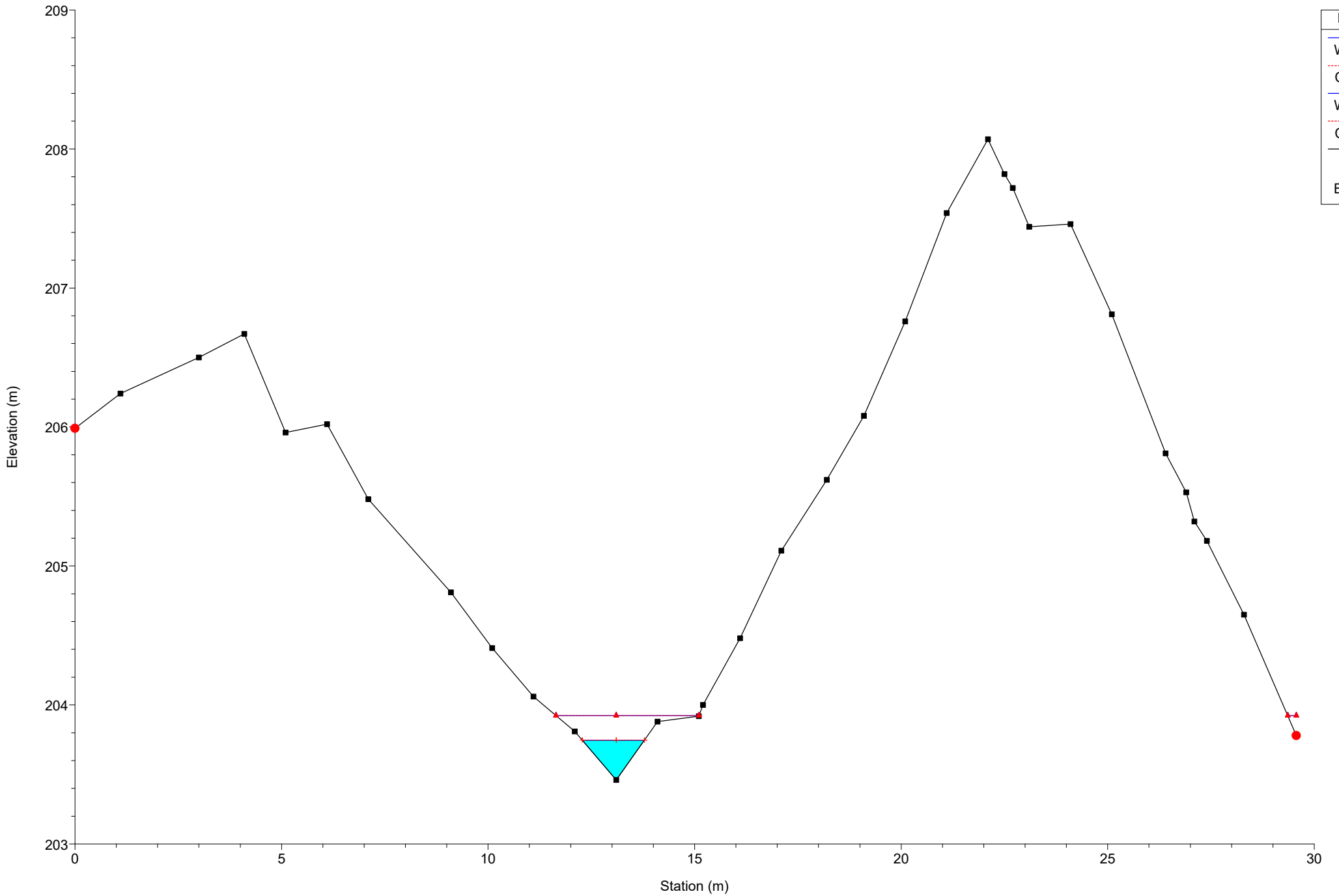
River = River 5 Reach = Reach 5 RS = 12



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

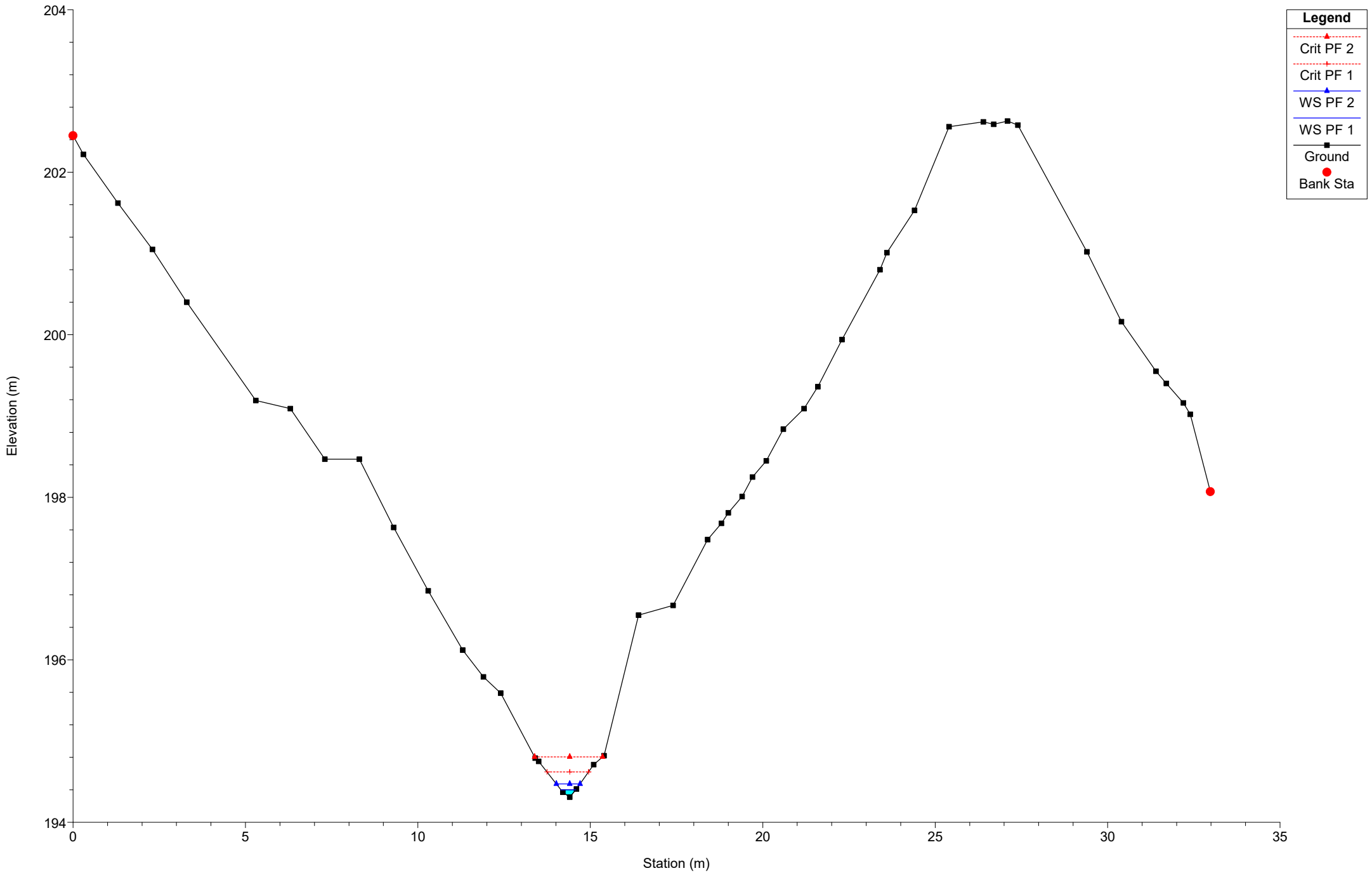
River = River 6 Reach = Reach 6 RS = 52



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

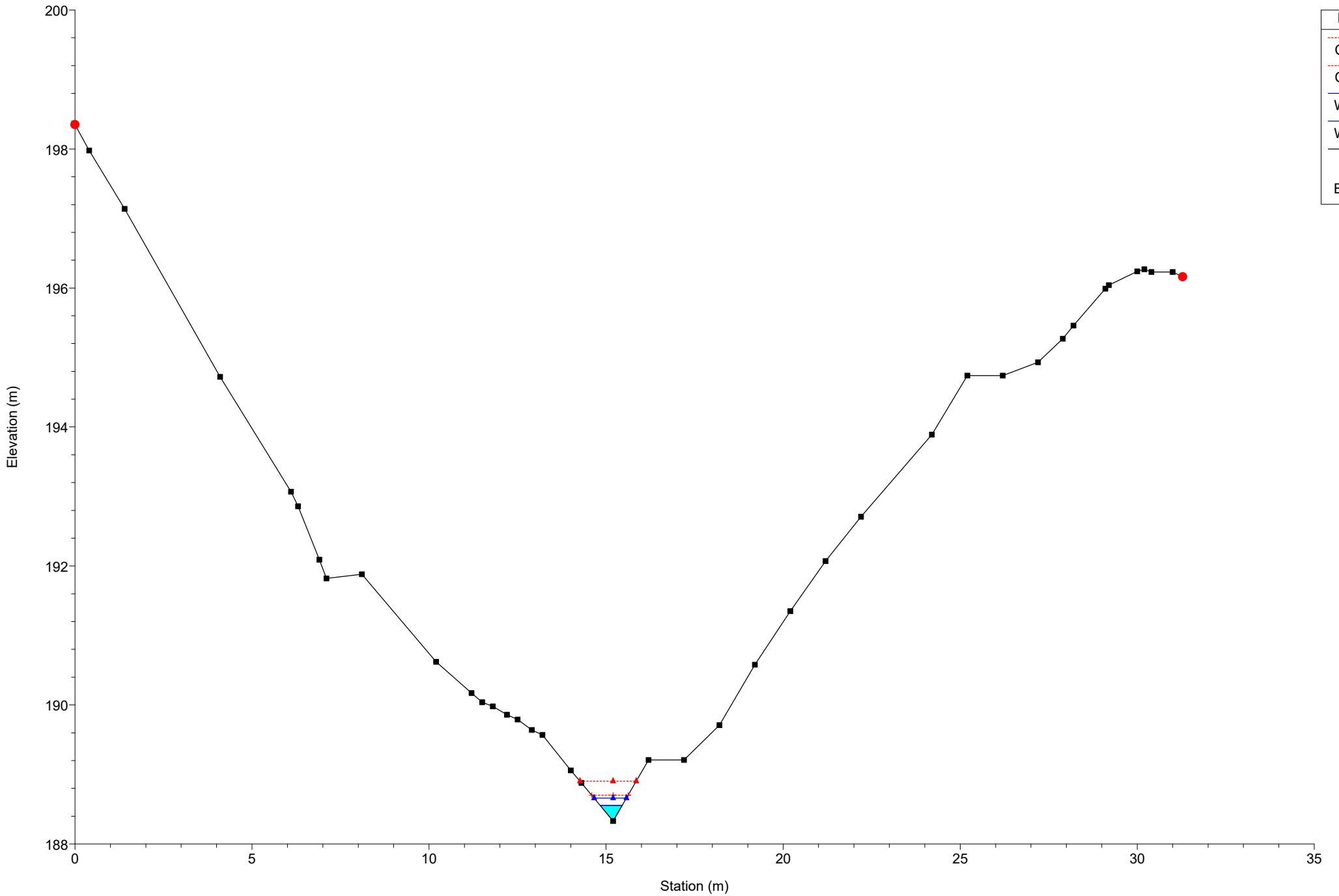
River = River 6 Reach = Reach 6 RS = 42



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 6 Reach = Reach 6 RS = 32

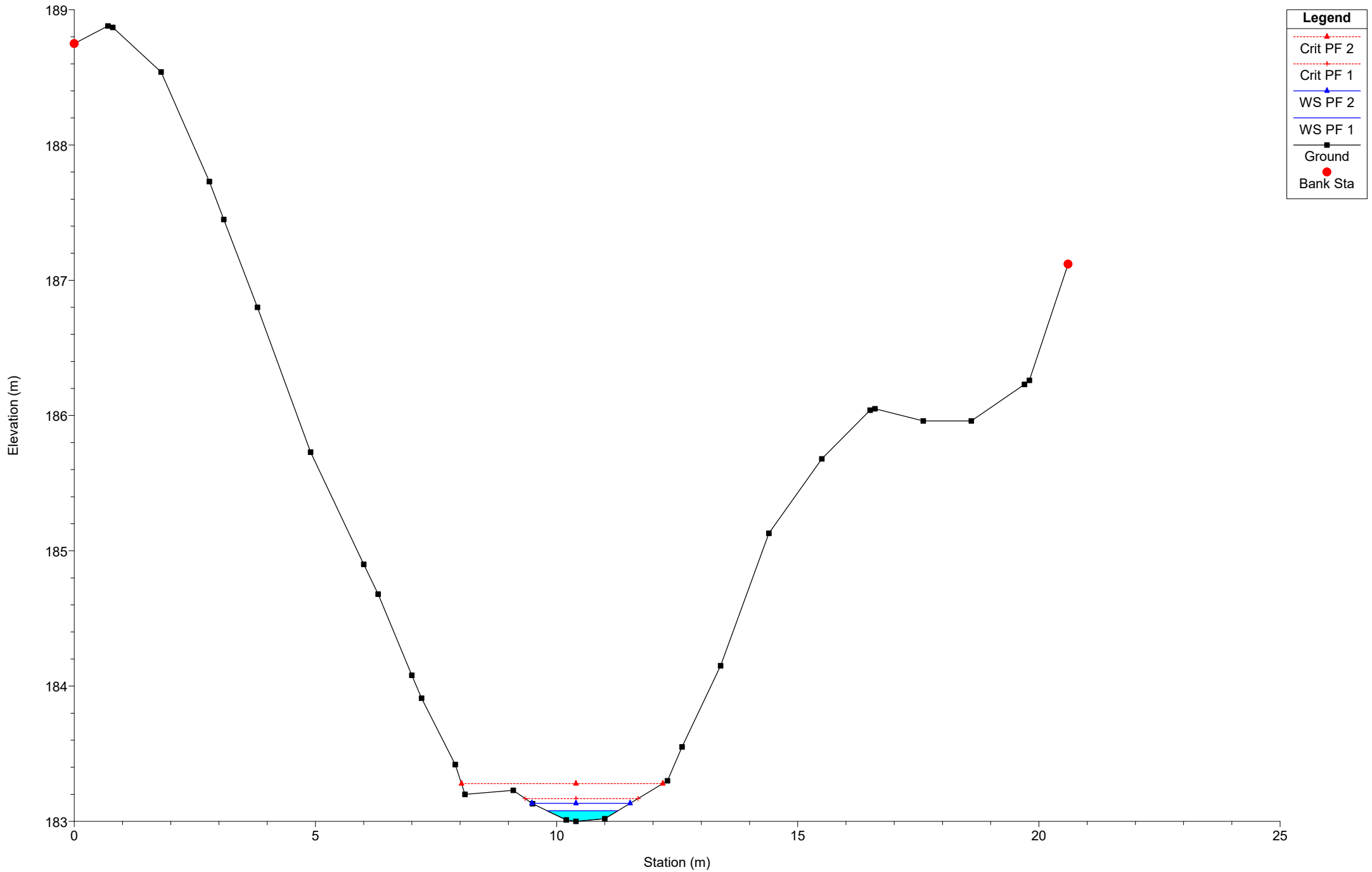




1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

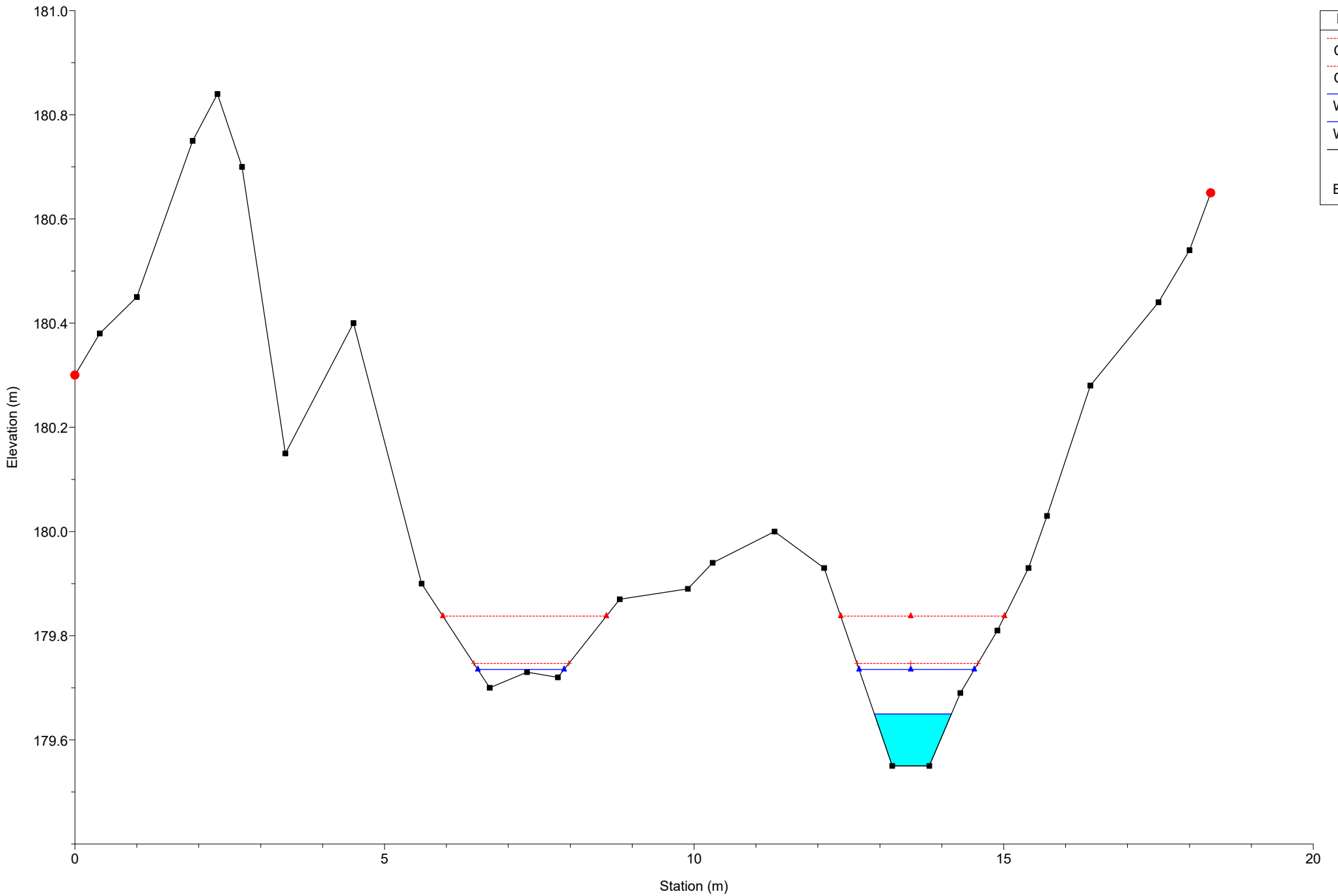
River = River 6 Reach = Reach 6 RS = 20



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

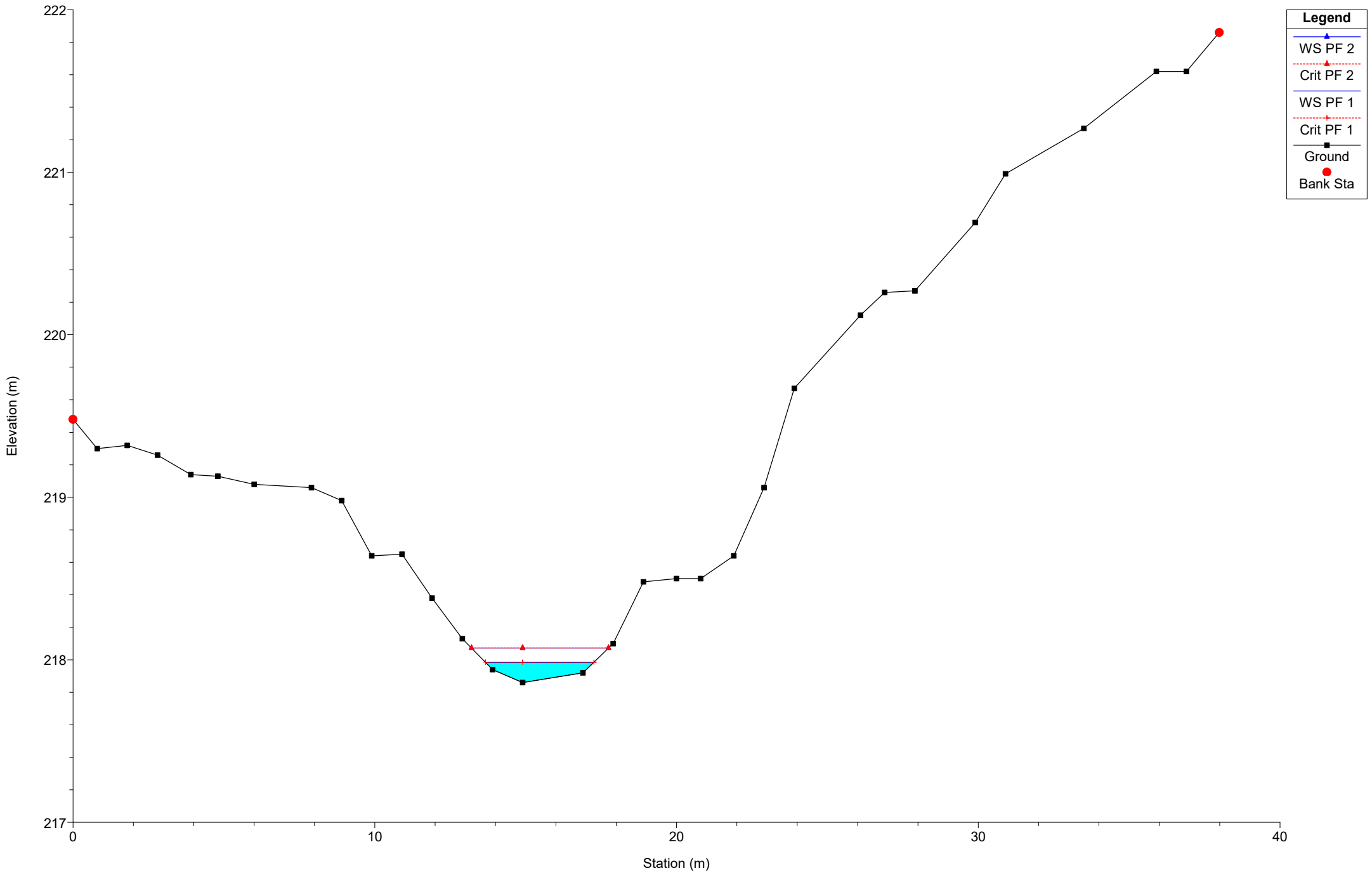
River = River 6 Reach = Reach 6 RS = 11



|  |   |                               |
|--|---|-------------------------------|
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|--|---|-------------------------------|

### 3.2 Bacino 2

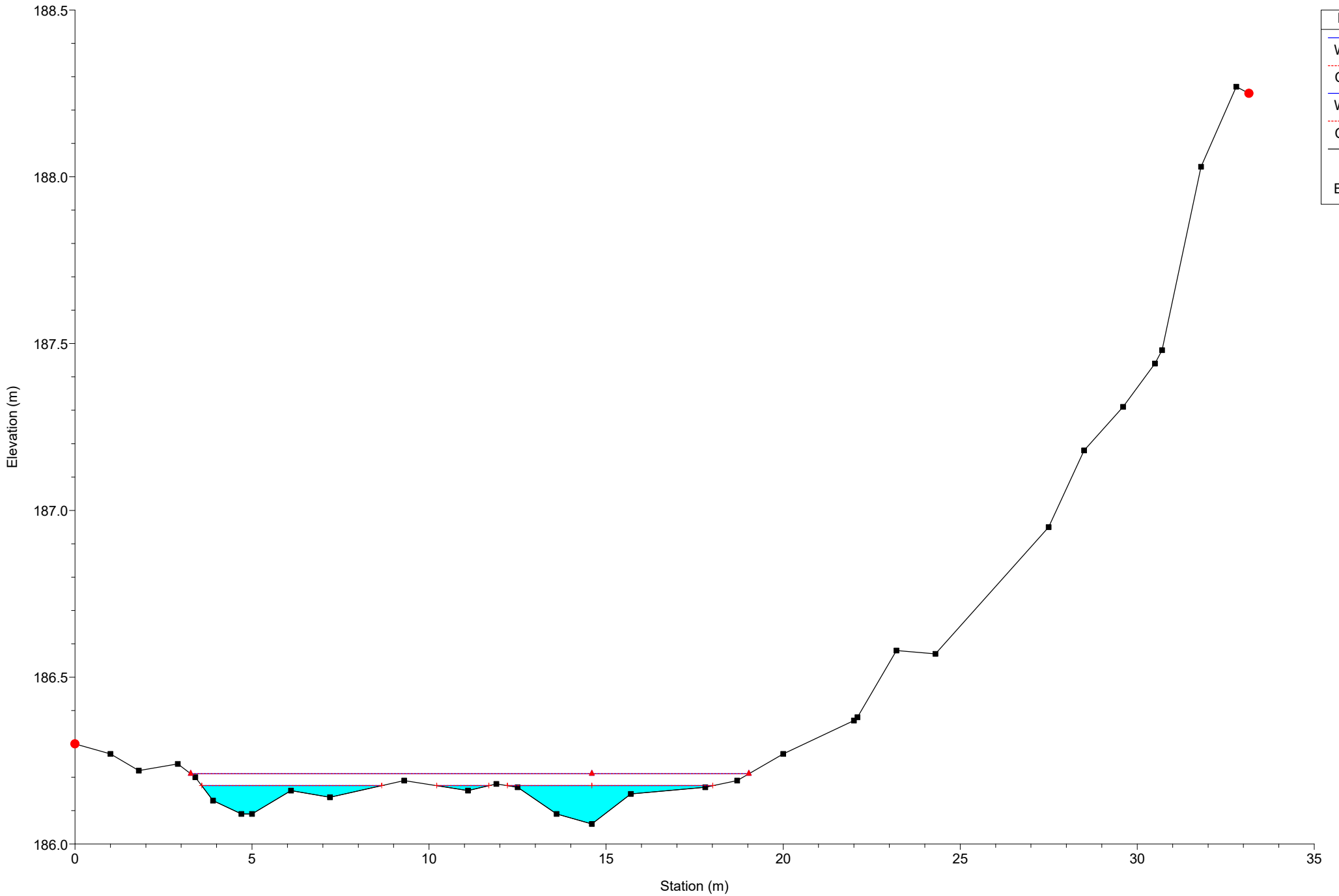
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 3 Reach = Reach 3 RS = 360



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

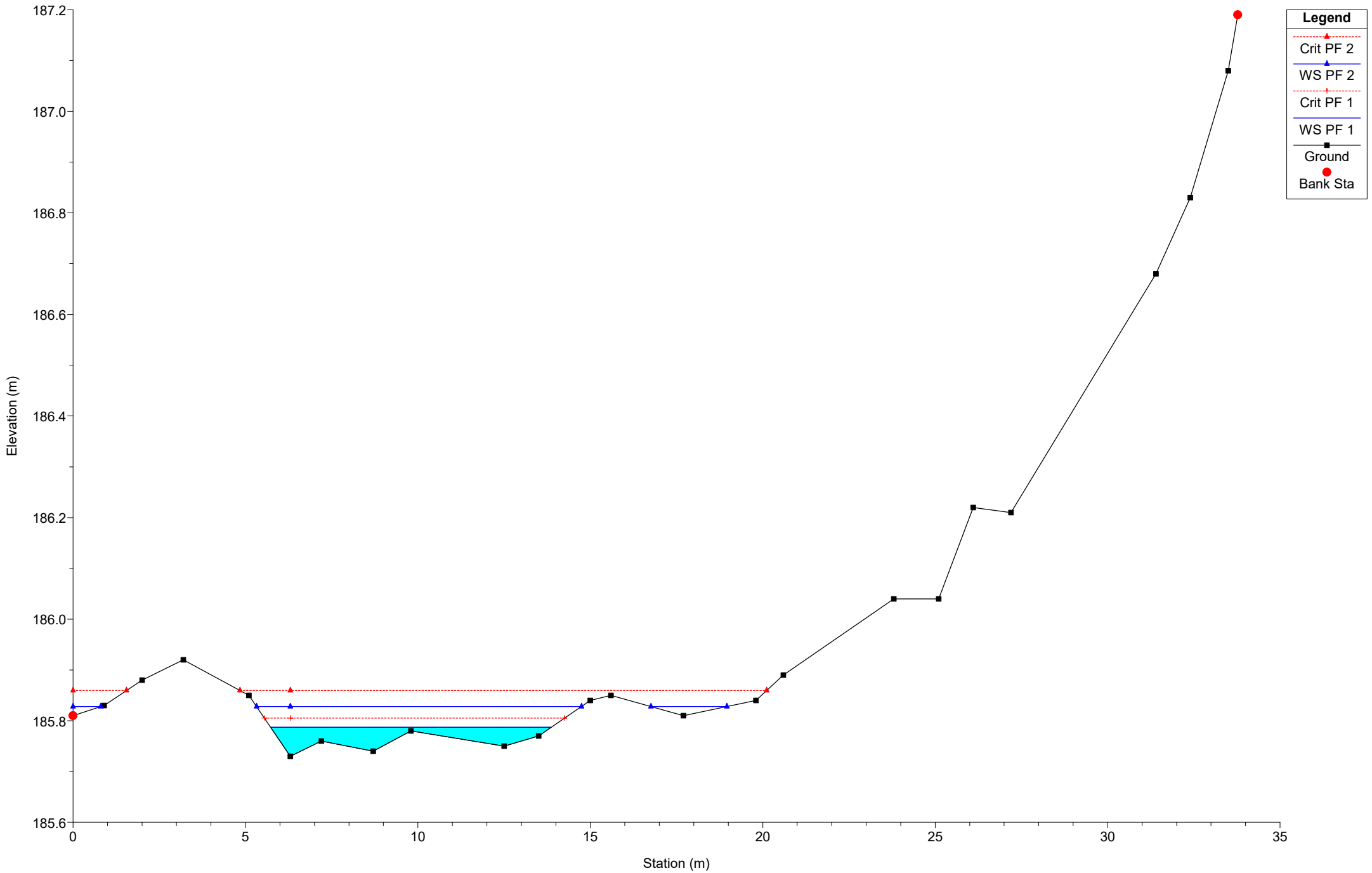
River = River 1 Reach = Reach 1 RS = 56



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

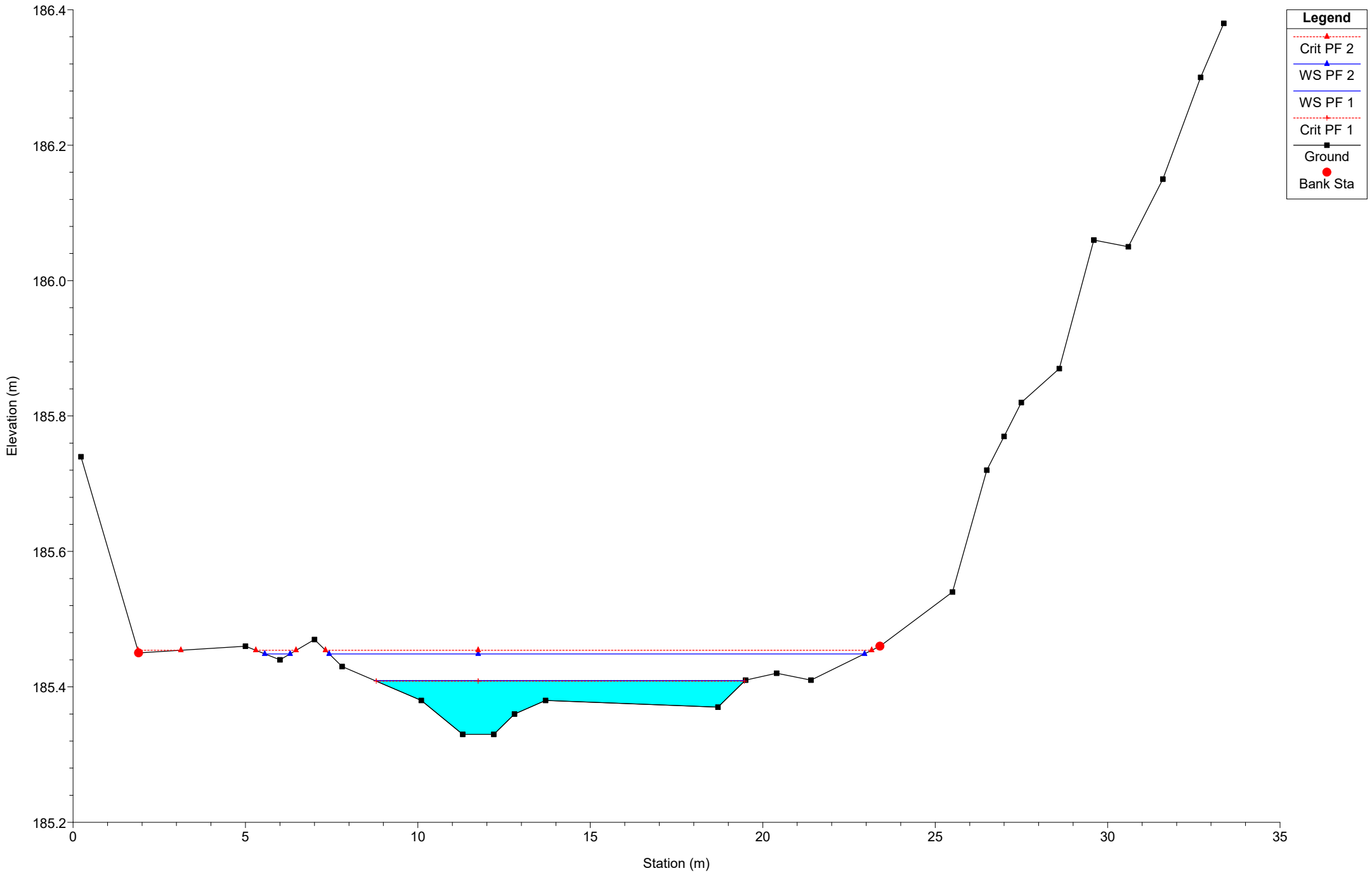
River = River 1 Reach = Reach 1 RS = 49



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

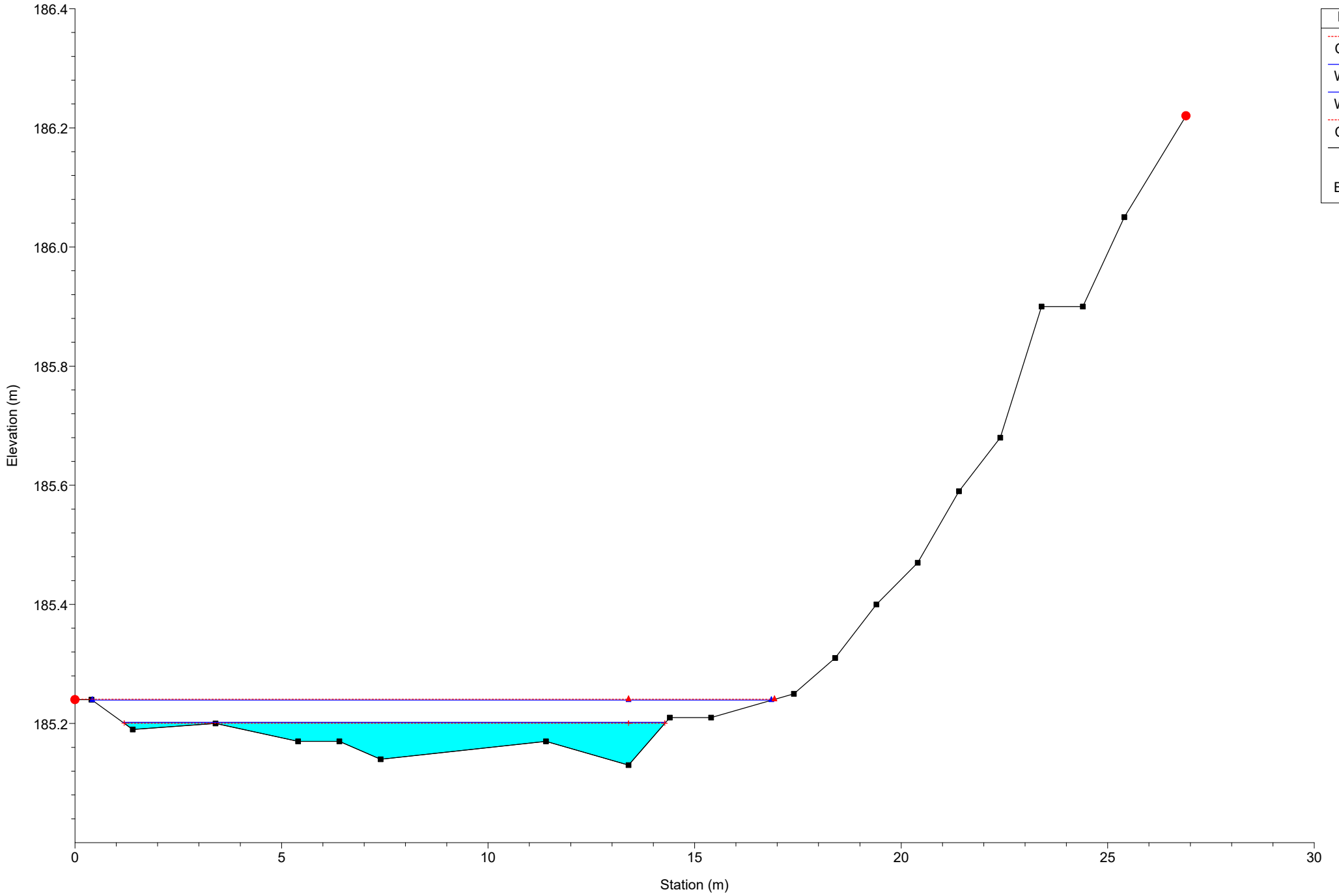
River = River 1 Reach = Reach 1 RS = 41



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 1 Reach = Reach 1 RS = 34

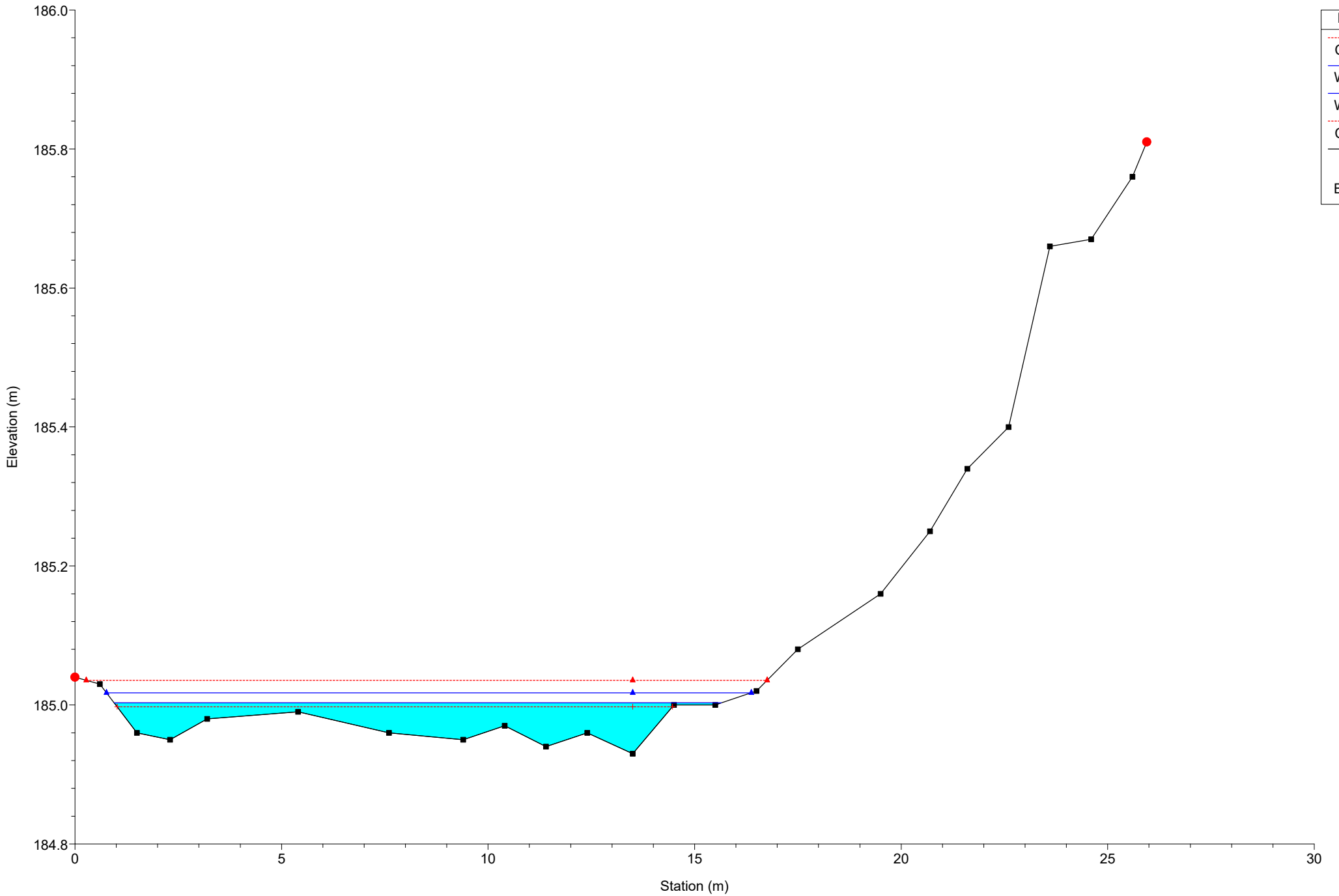




1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

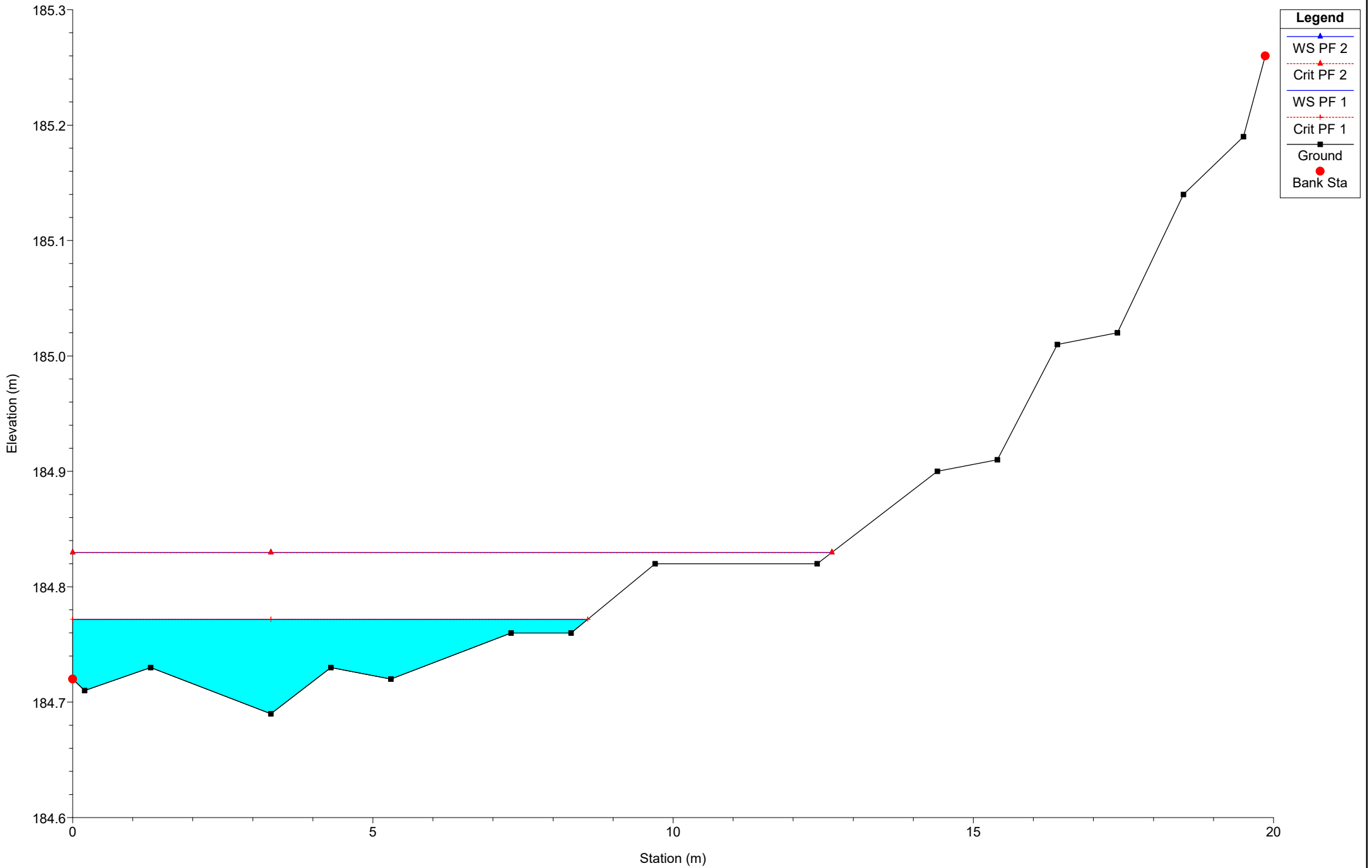
River = River 1 Reach = Reach 1 RS = 26



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

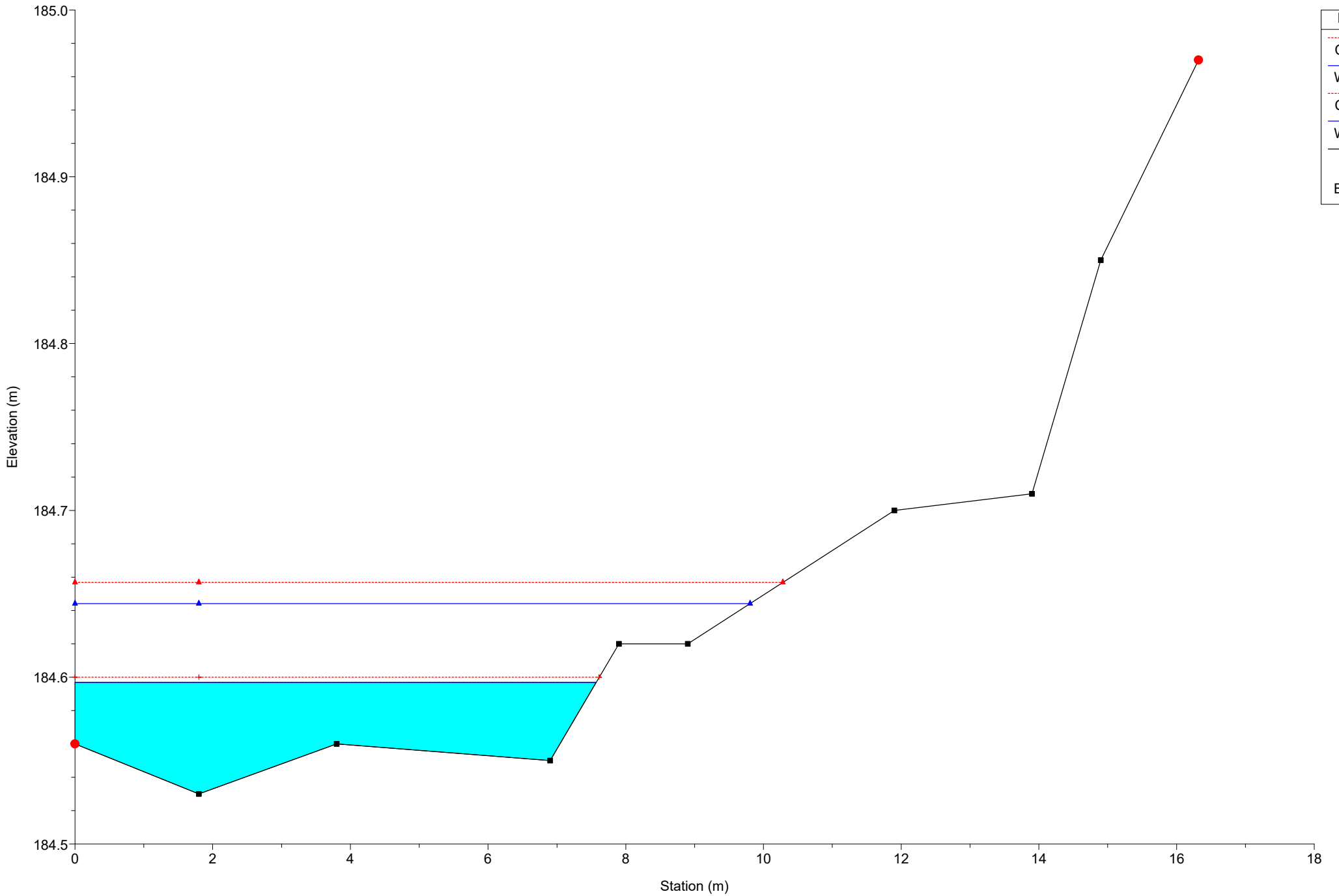
River = River 1 Reach = Reach 1 RS = 17



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

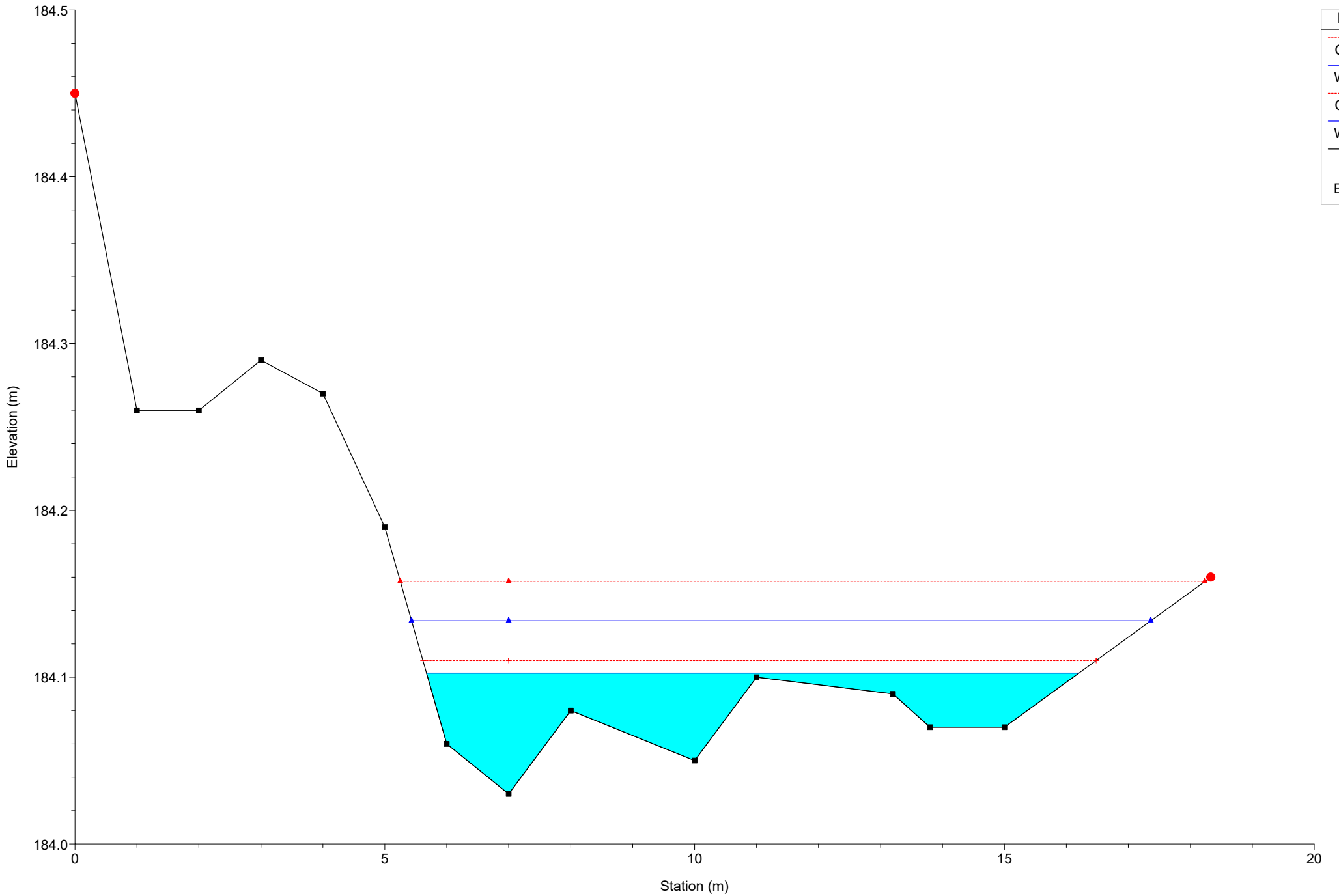
River = River 1 Reach = Reach 1 RS = 12



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

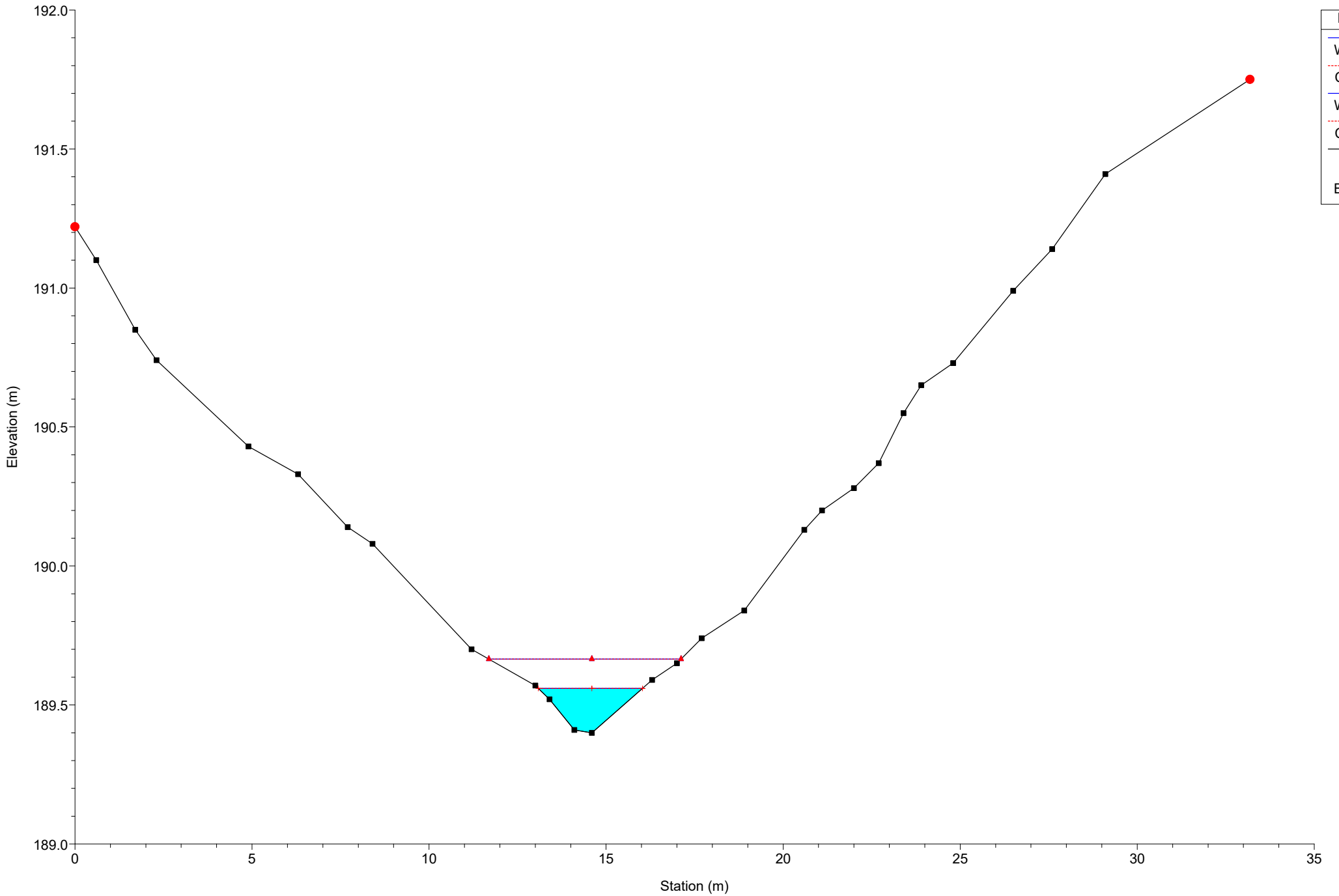
River = River 1 Reach = Reach 1 RS = 3



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

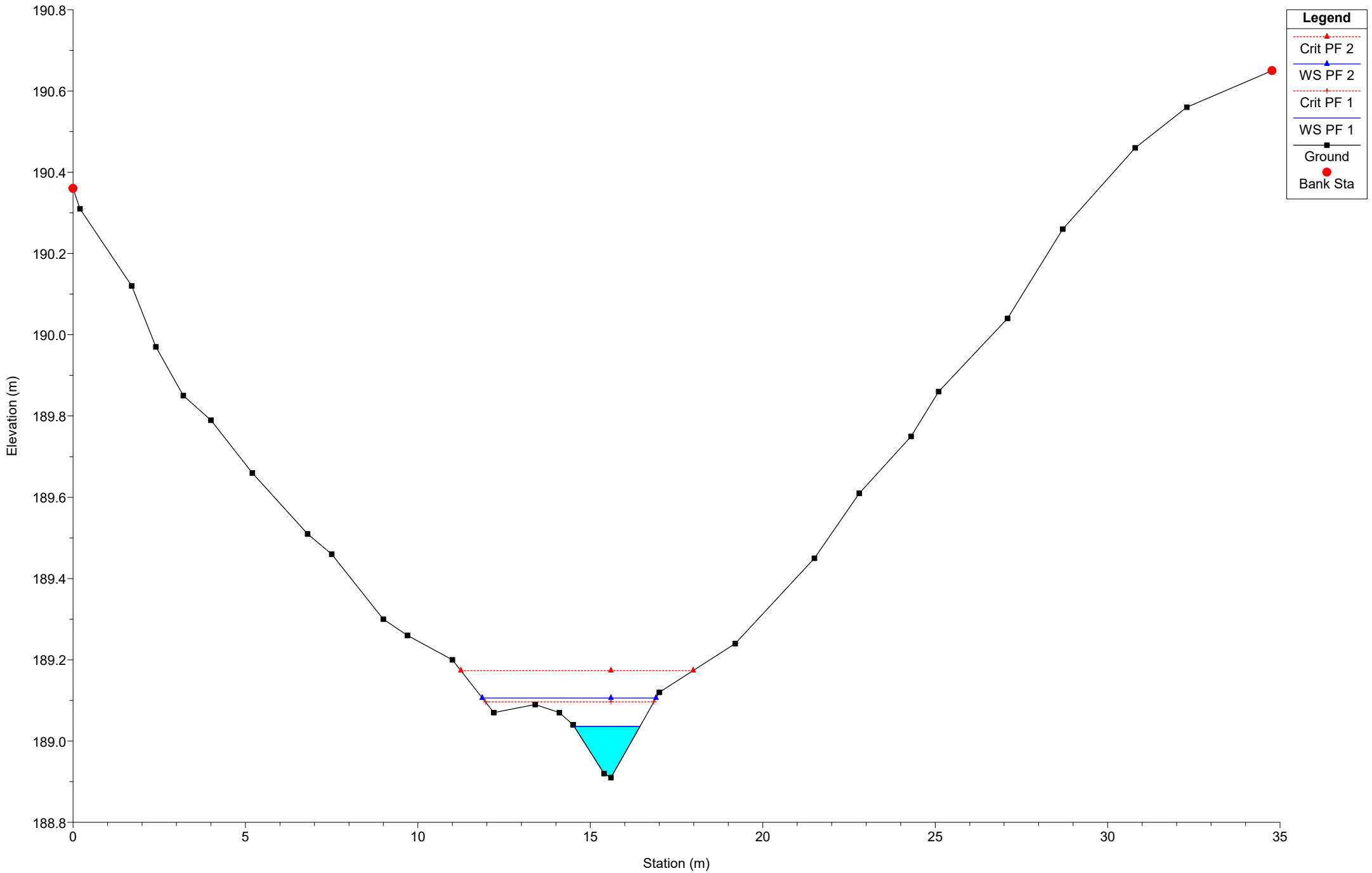
River = River 2 Reach = Reach 2 RS = 102



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

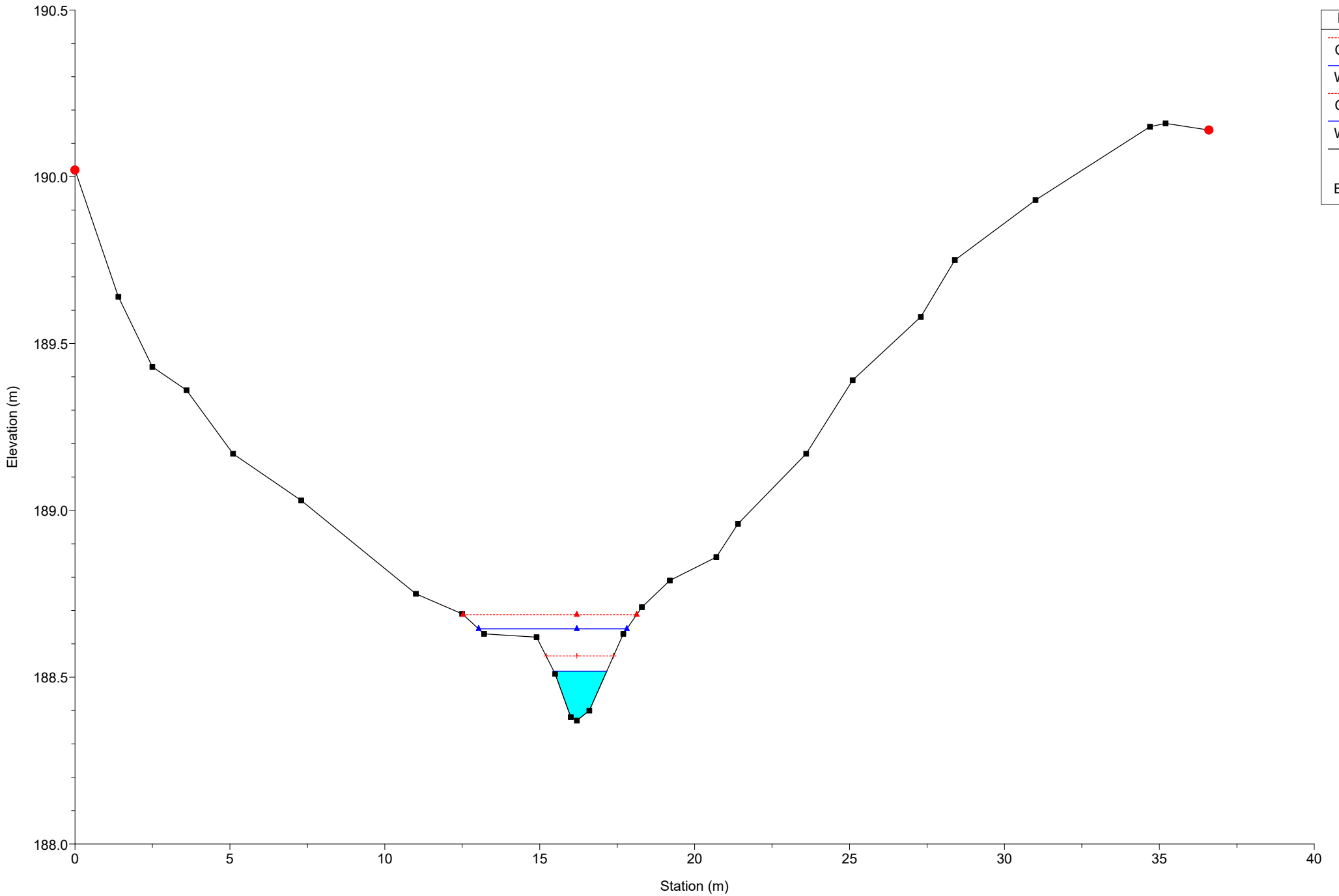
River = River 2 Reach = Reach 2 RS = 95



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

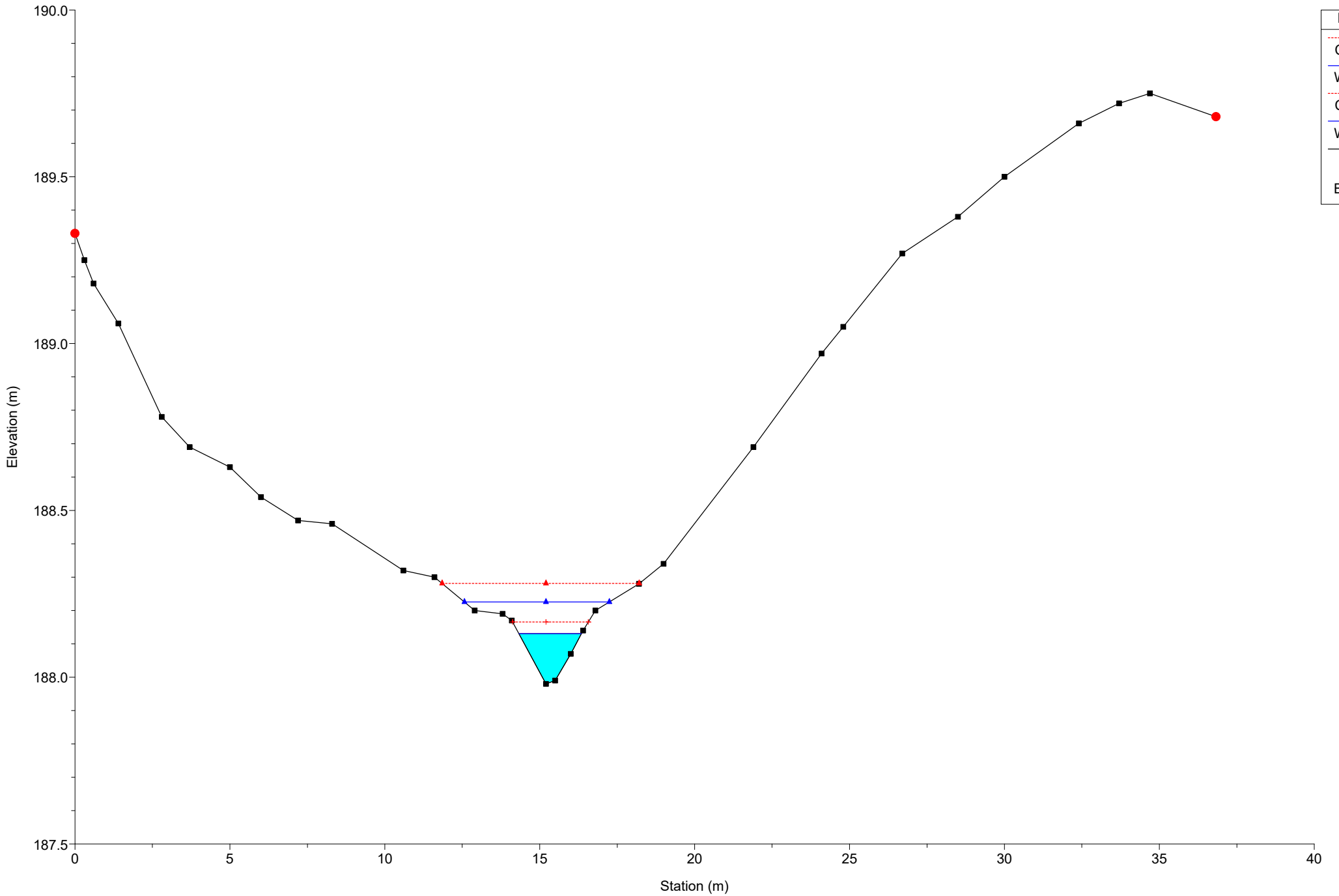
River = River 2 Reach = Reach 2 RS = 90



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 2 Reach = Reach 2 RS = 84



**Legend**

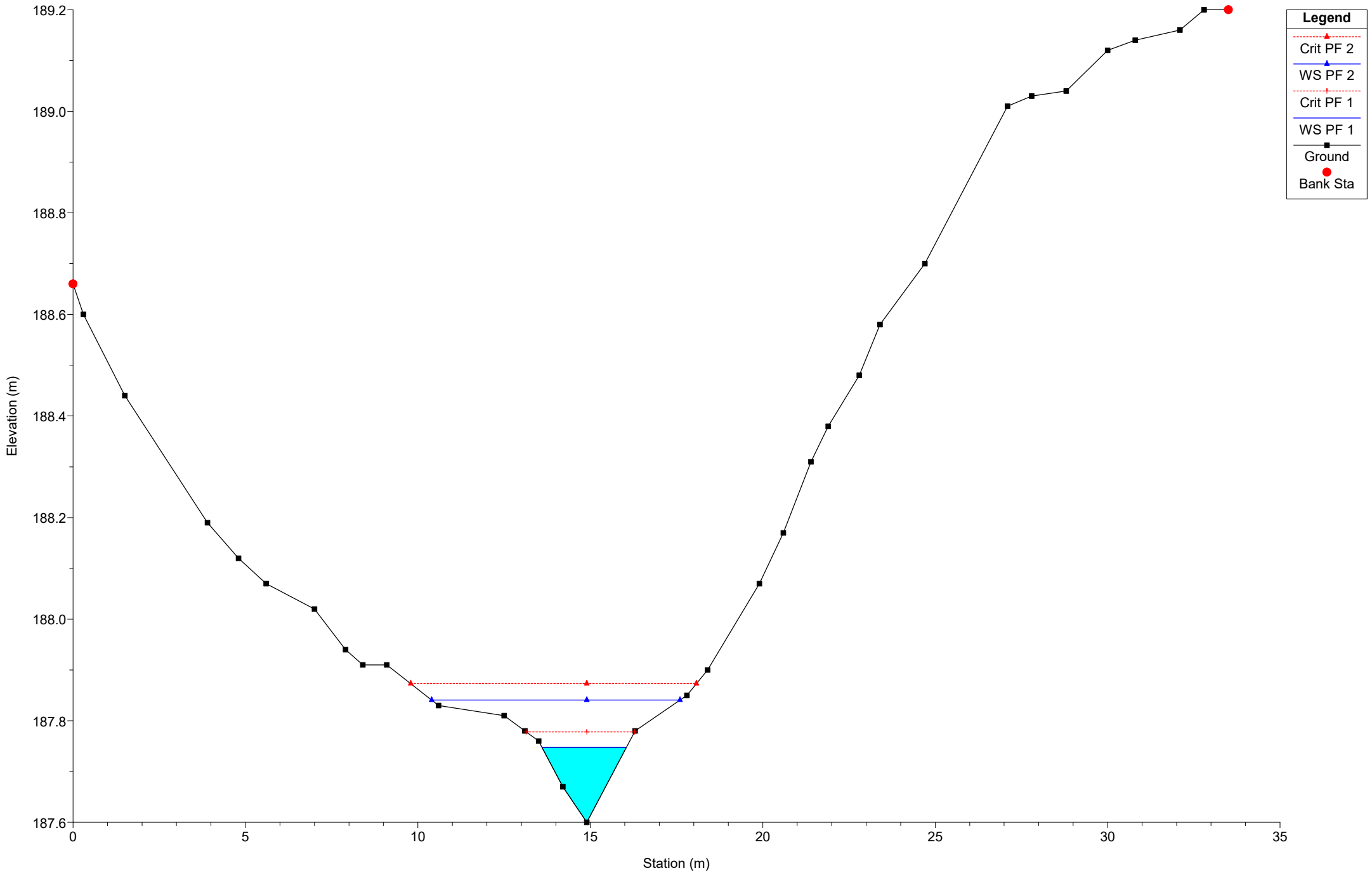
- Crit PF 2 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

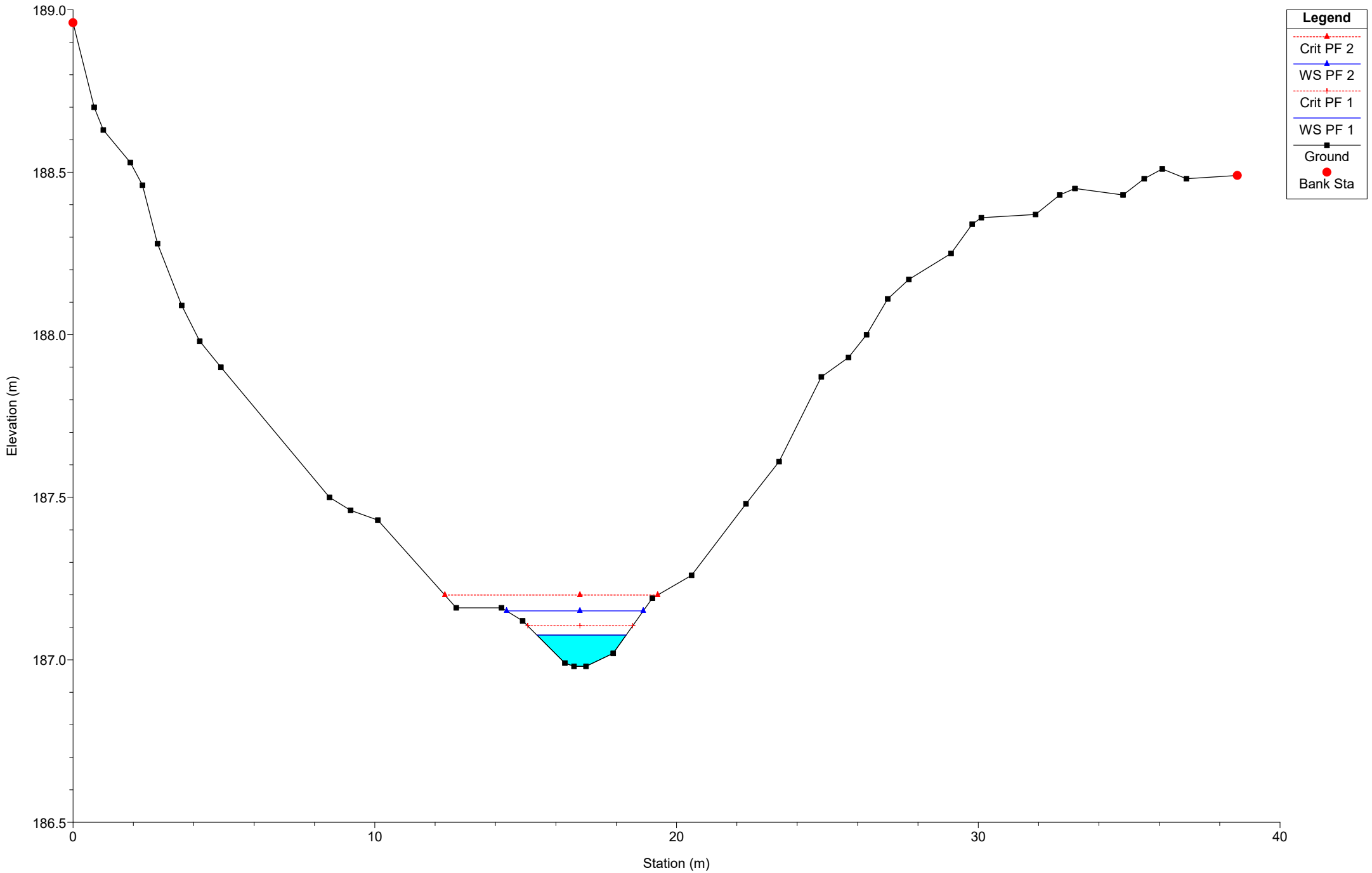
River = River 2 Reach = Reach 2 RS = 78



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

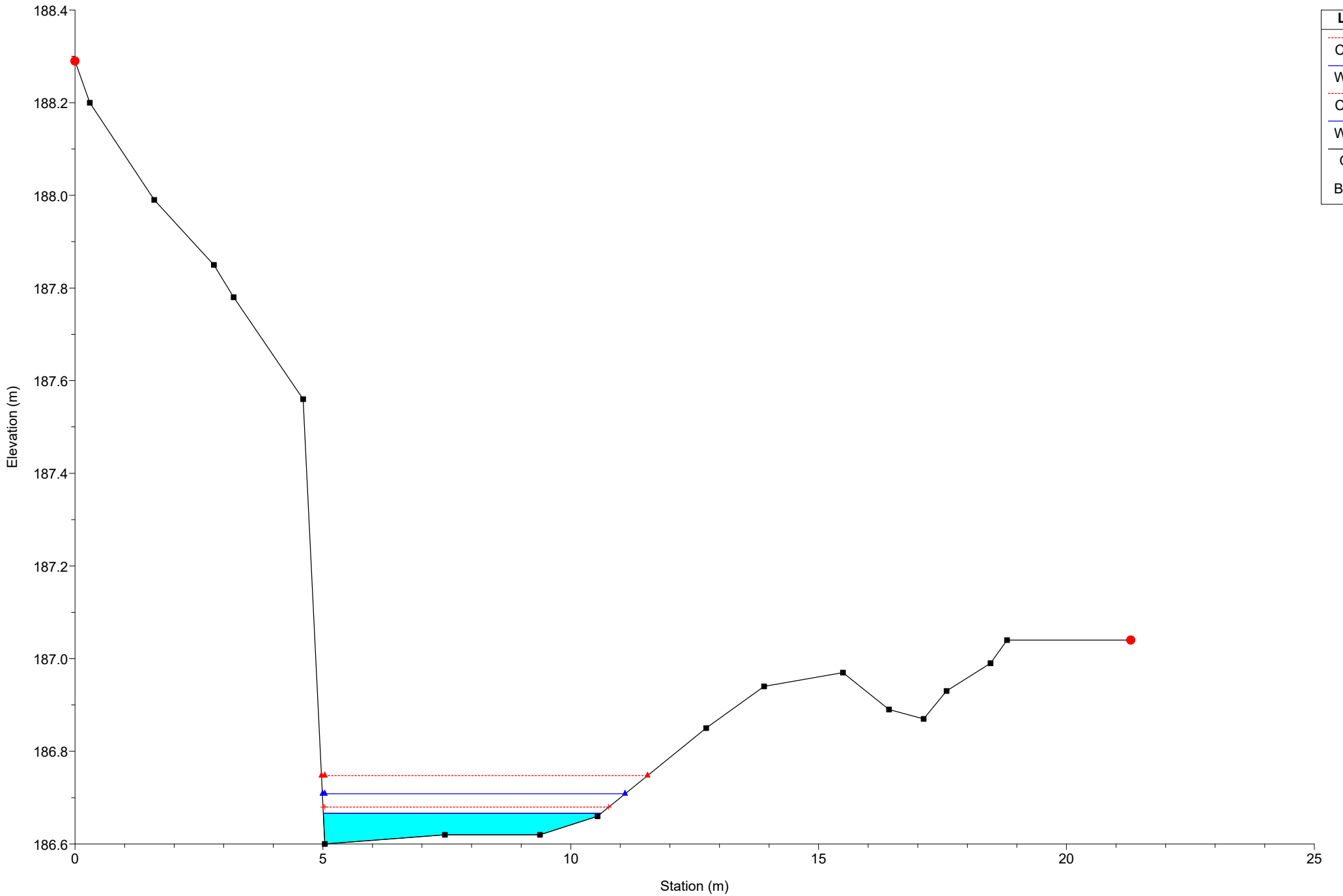
River = River 2 Reach = Reach 2 RS = 68



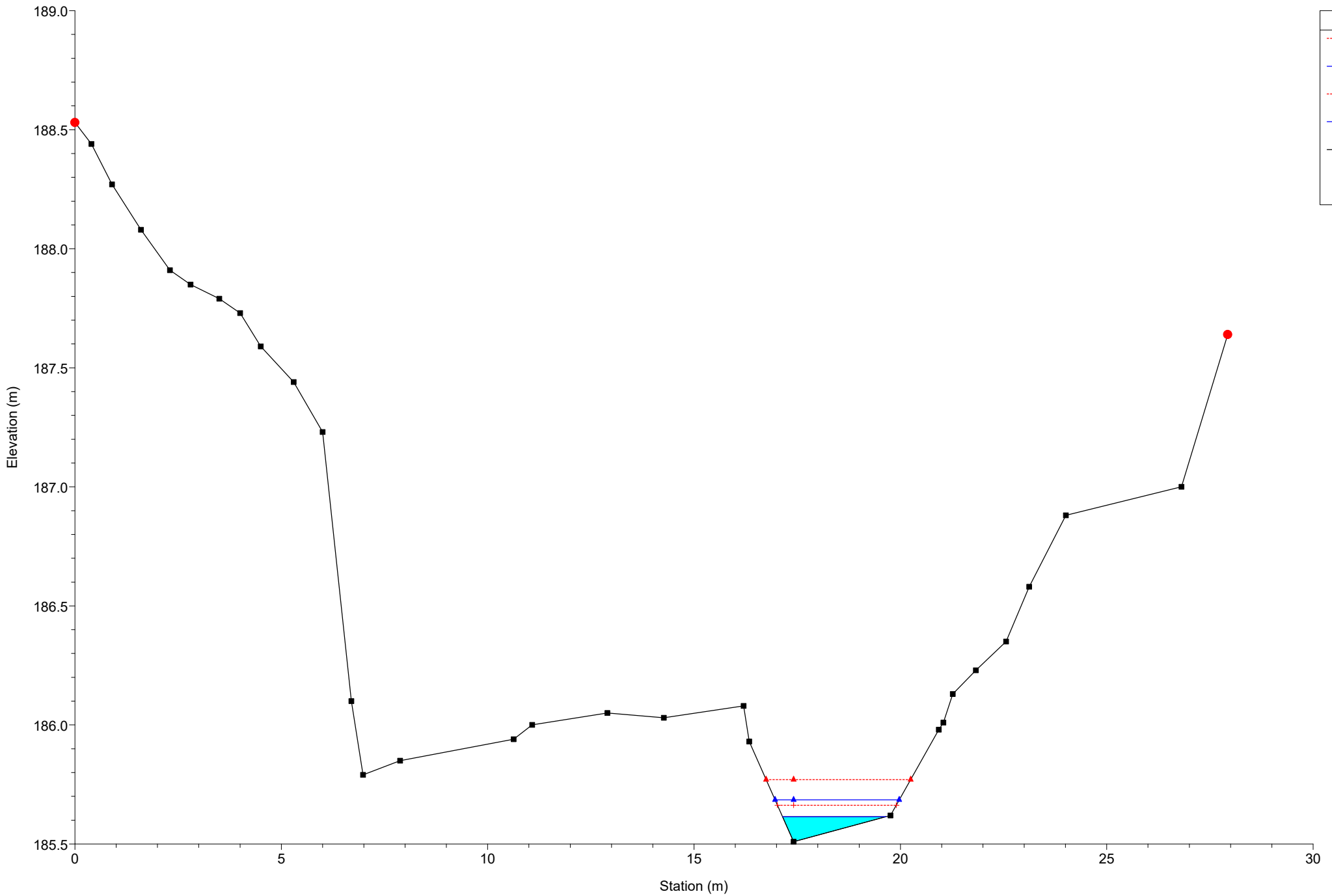
1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

River = River 2 Reach = Reach 2 RS = 62



1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 2 Reach = Reach 2 RS = 53.8



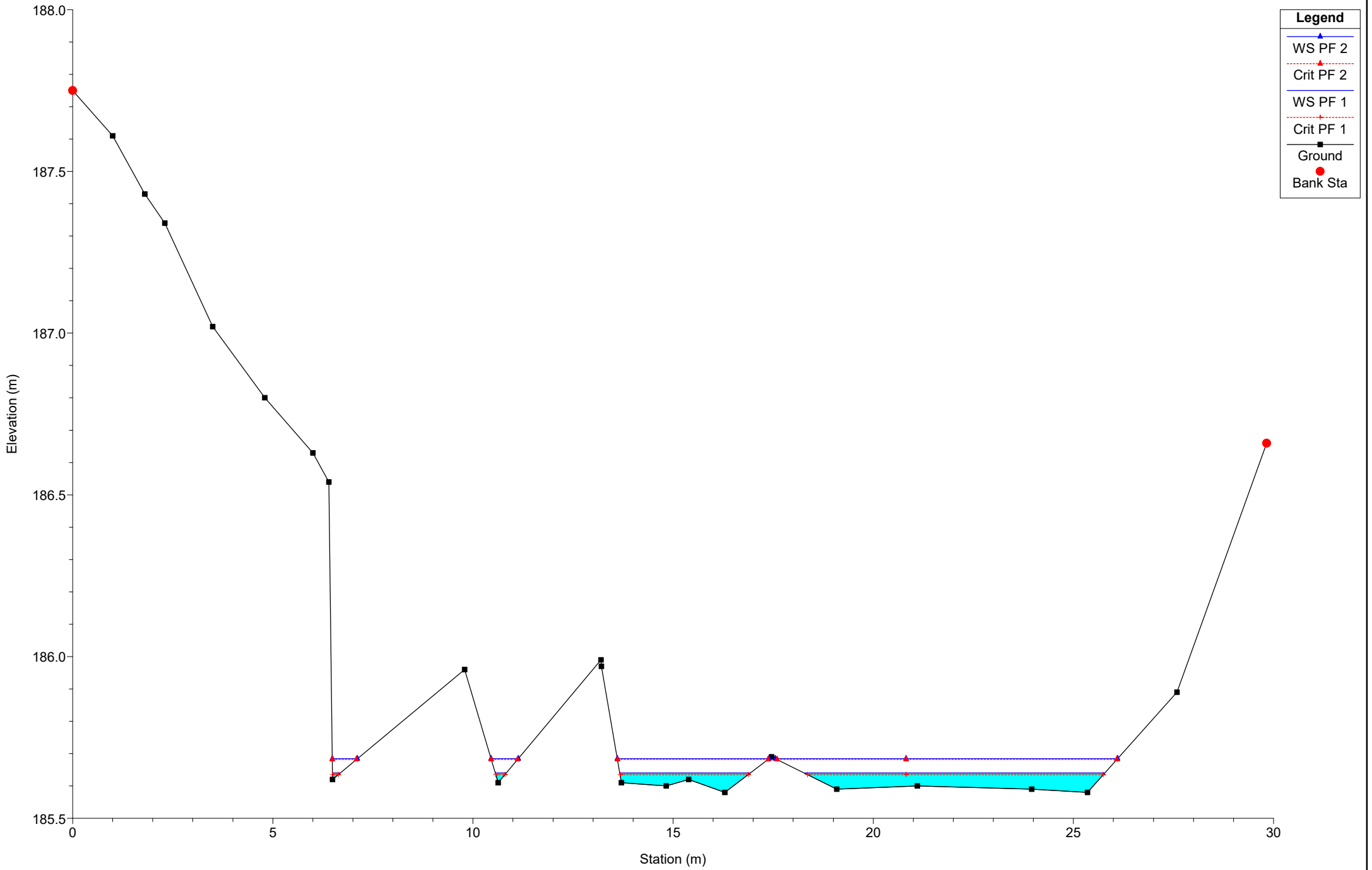
**Legend**

- Crit PF 2 (Red dashed line with triangle)
- WS PF 2 (Blue solid line with triangle)
- Crit PF 1 (Red dashed line with triangle)
- WS PF 1 (Blue solid line with triangle)
- Ground (Black solid line with square)
- Bank Sta (Red dot)

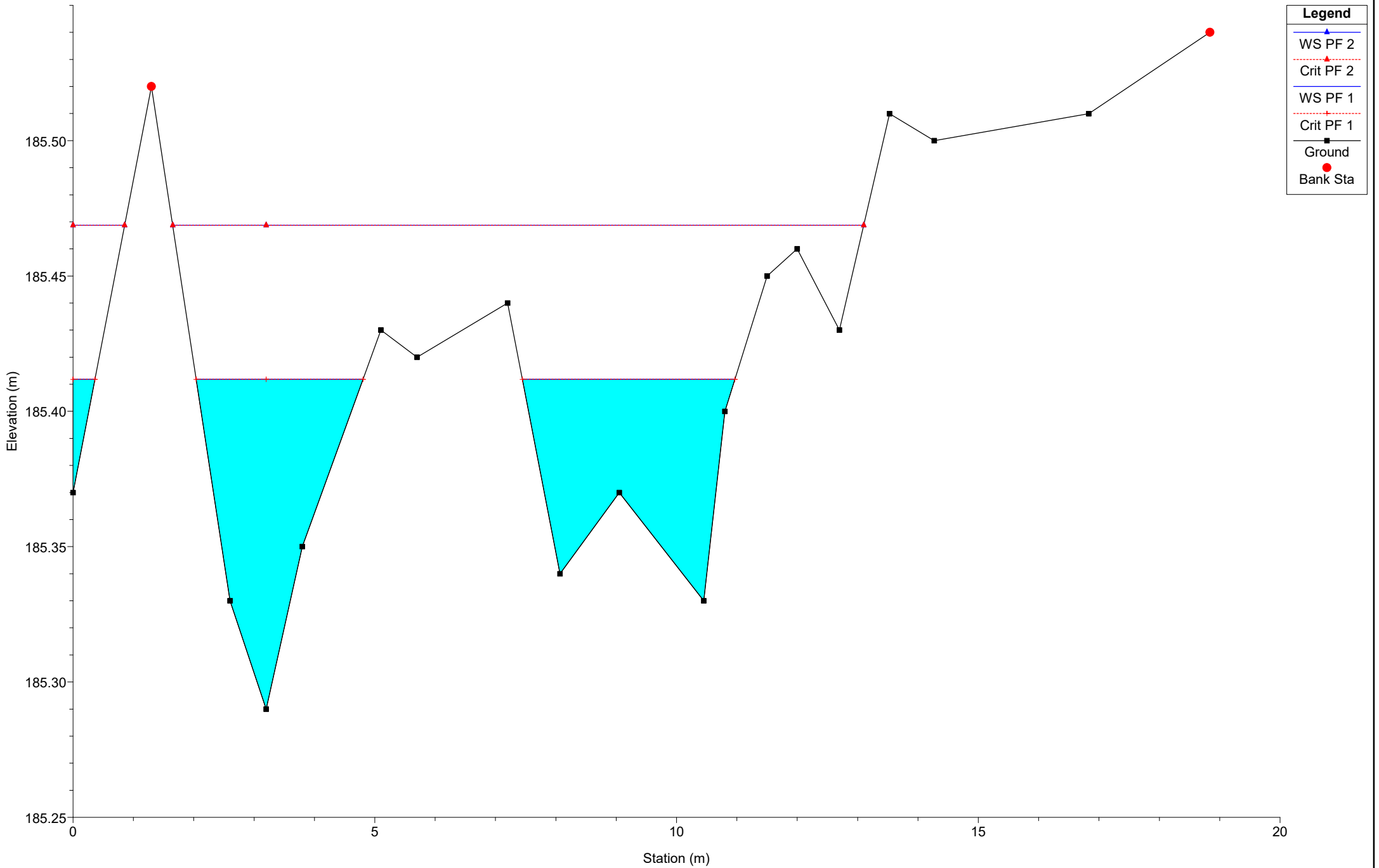
1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

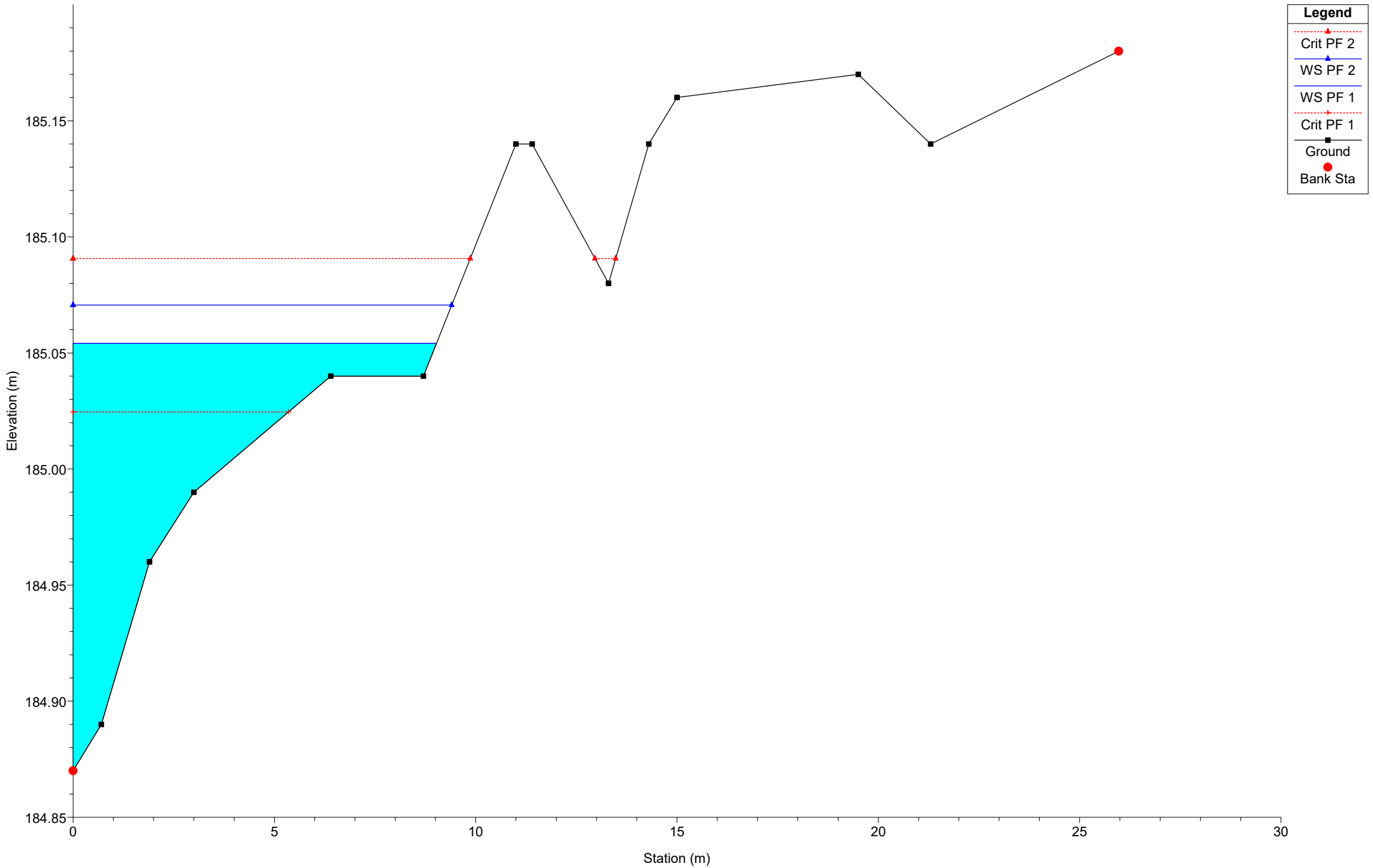
River = River 2 Reach = Reach 2 RS = 50



1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 2 Reach = Reach 2 RS = 43.8



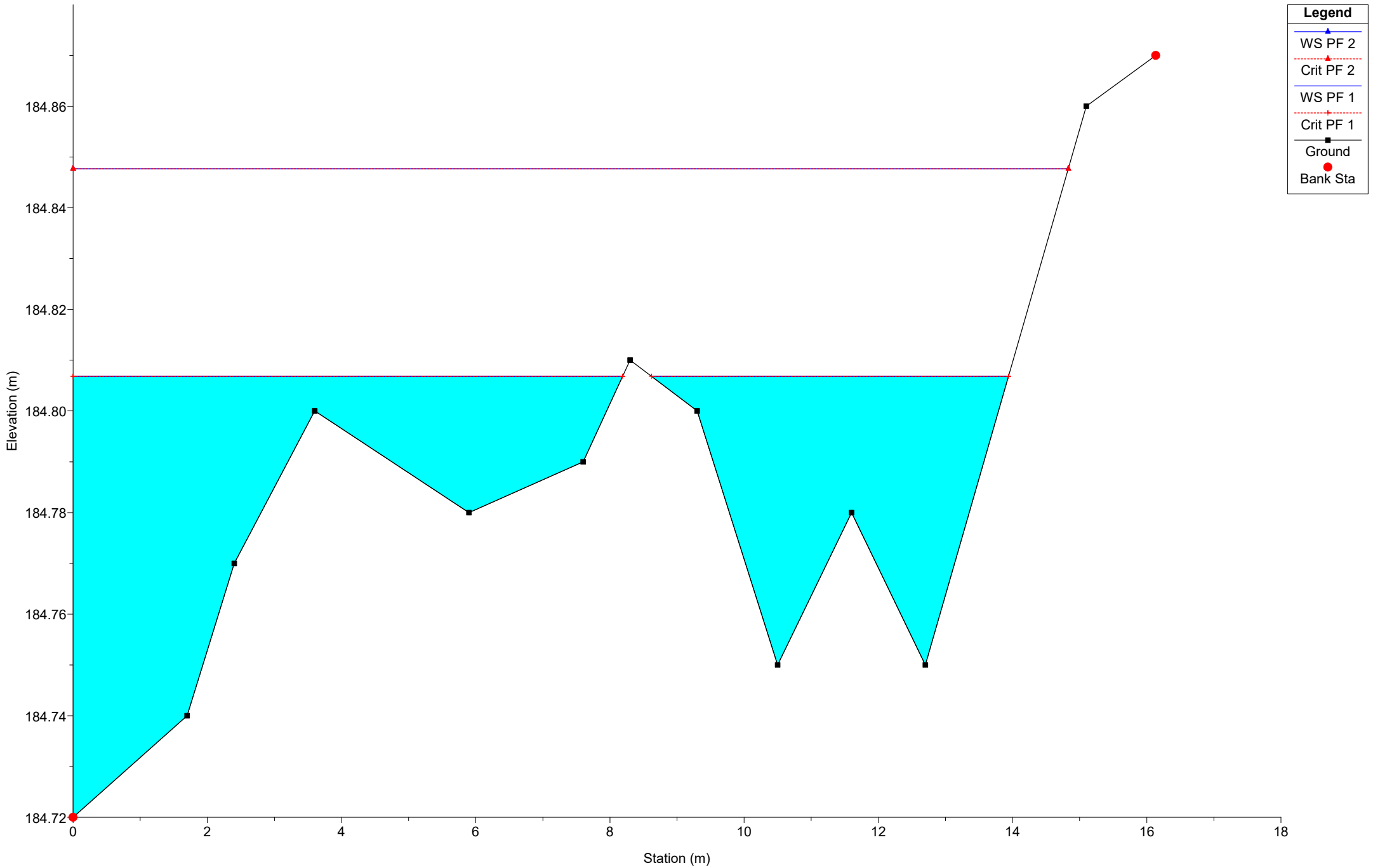
1Dalsolar Plan: Plan 01 1/3/2022  
Geom: New Geometry  
River = River 2 Reach = Reach 2 RS = 33.4



1Dalsolar Plan: Plan 01 1/3/2022

Geom: New Geometry

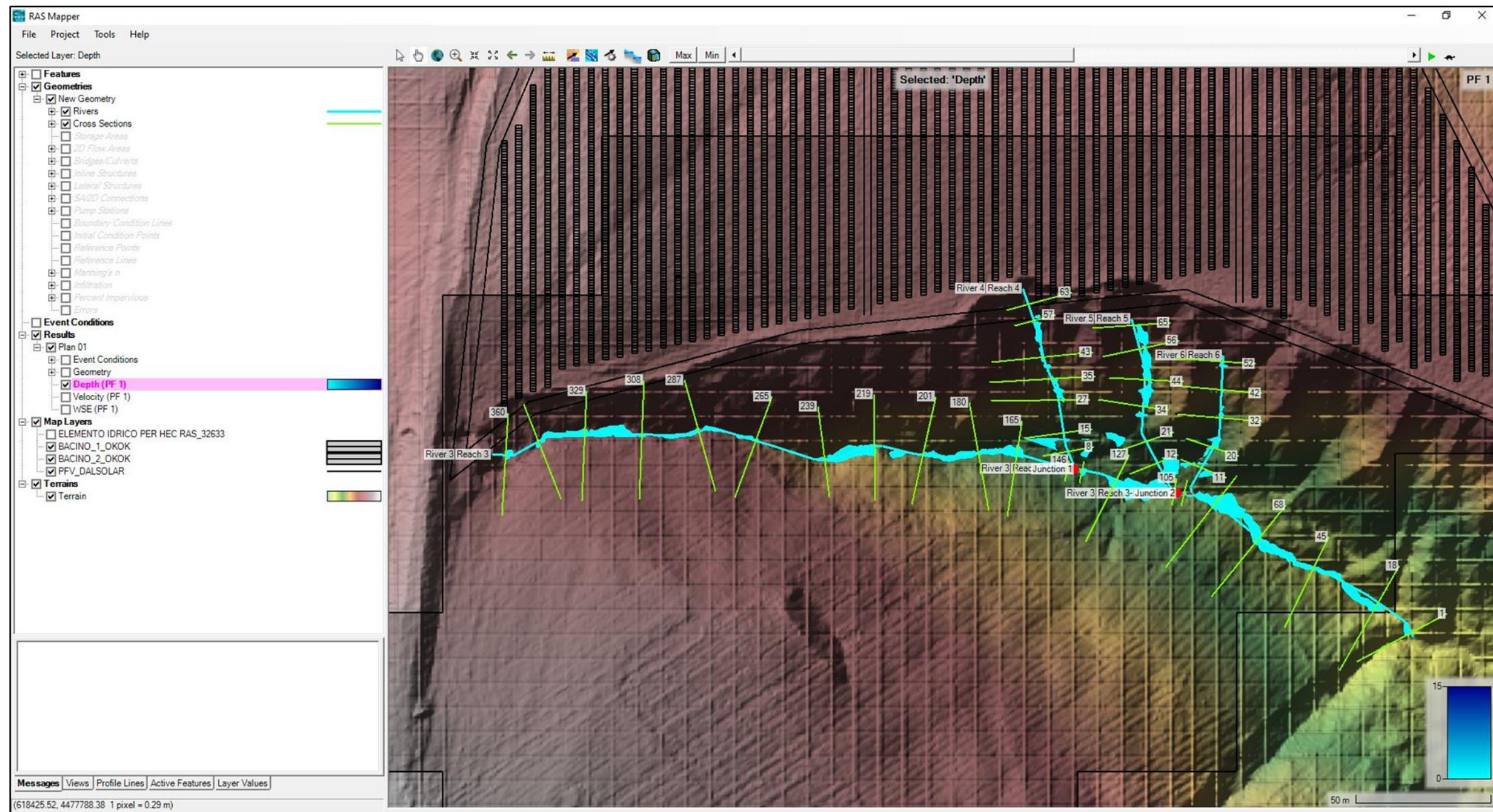
River = River 2 Reach = Reach 2 RS = 16



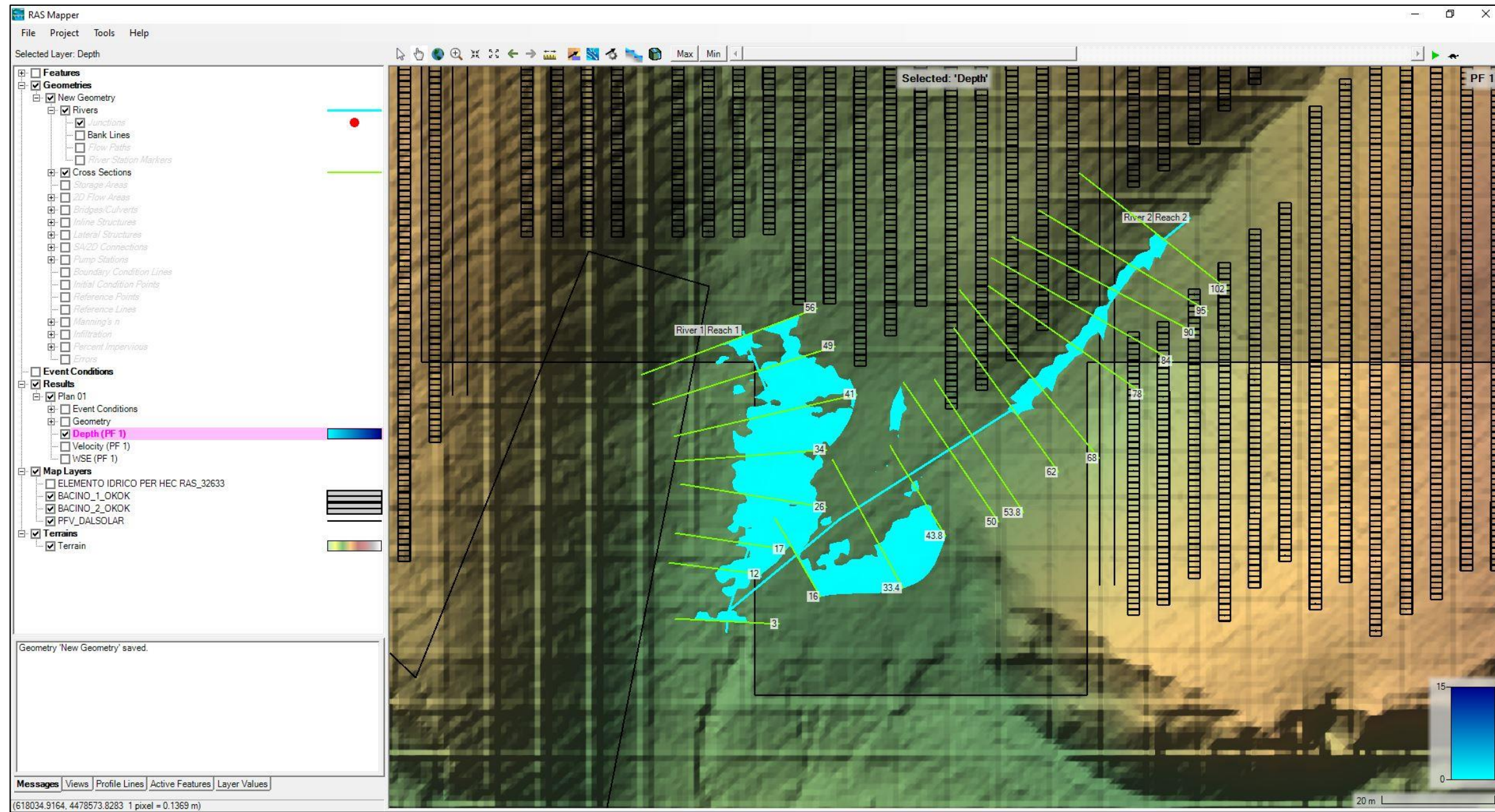


#### 4 Mappa delle aree inondabili Q<sub>30</sub> anni

##### 4.1 Bacino 1

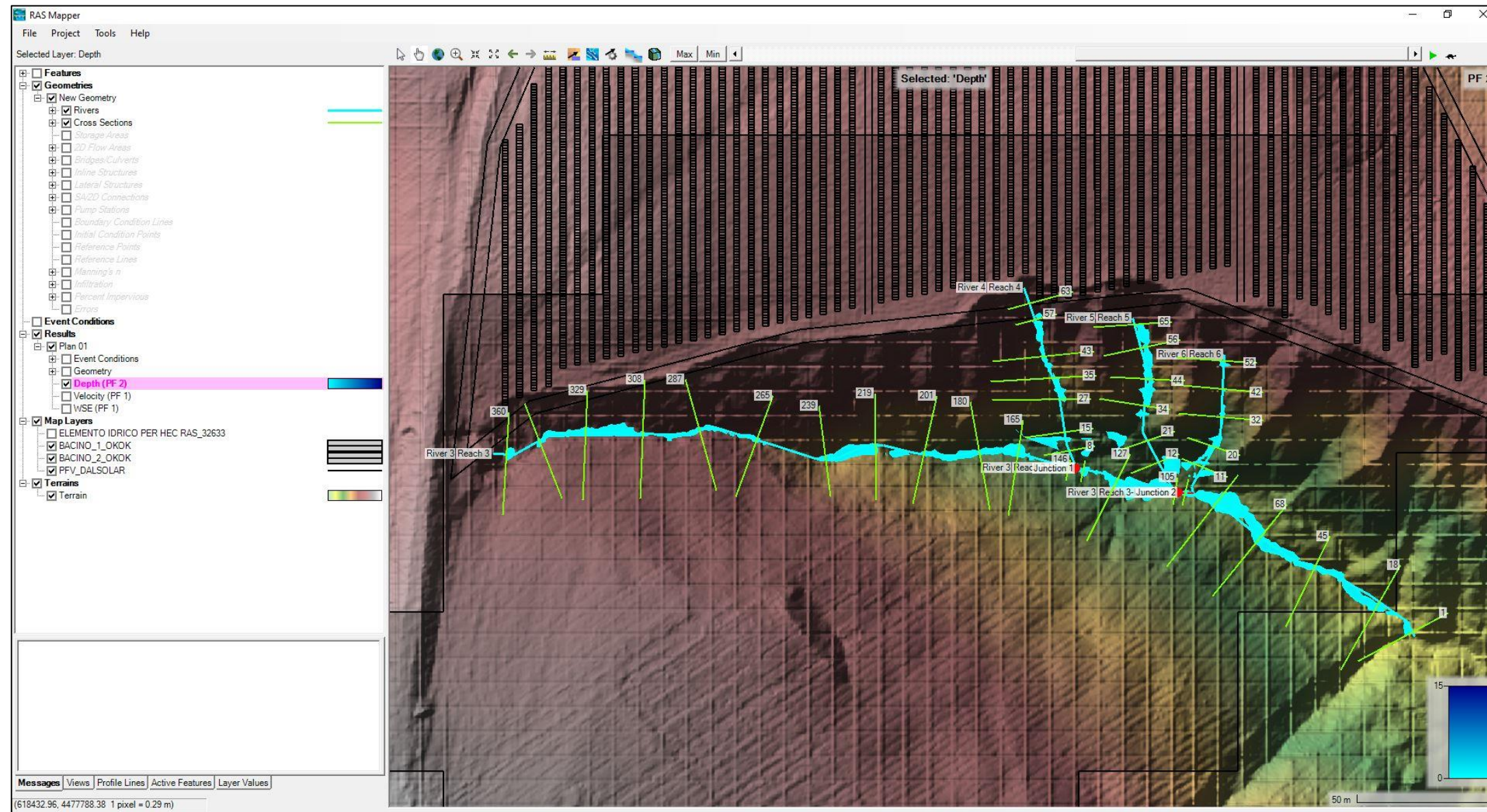


## 4.2 Bacino 2

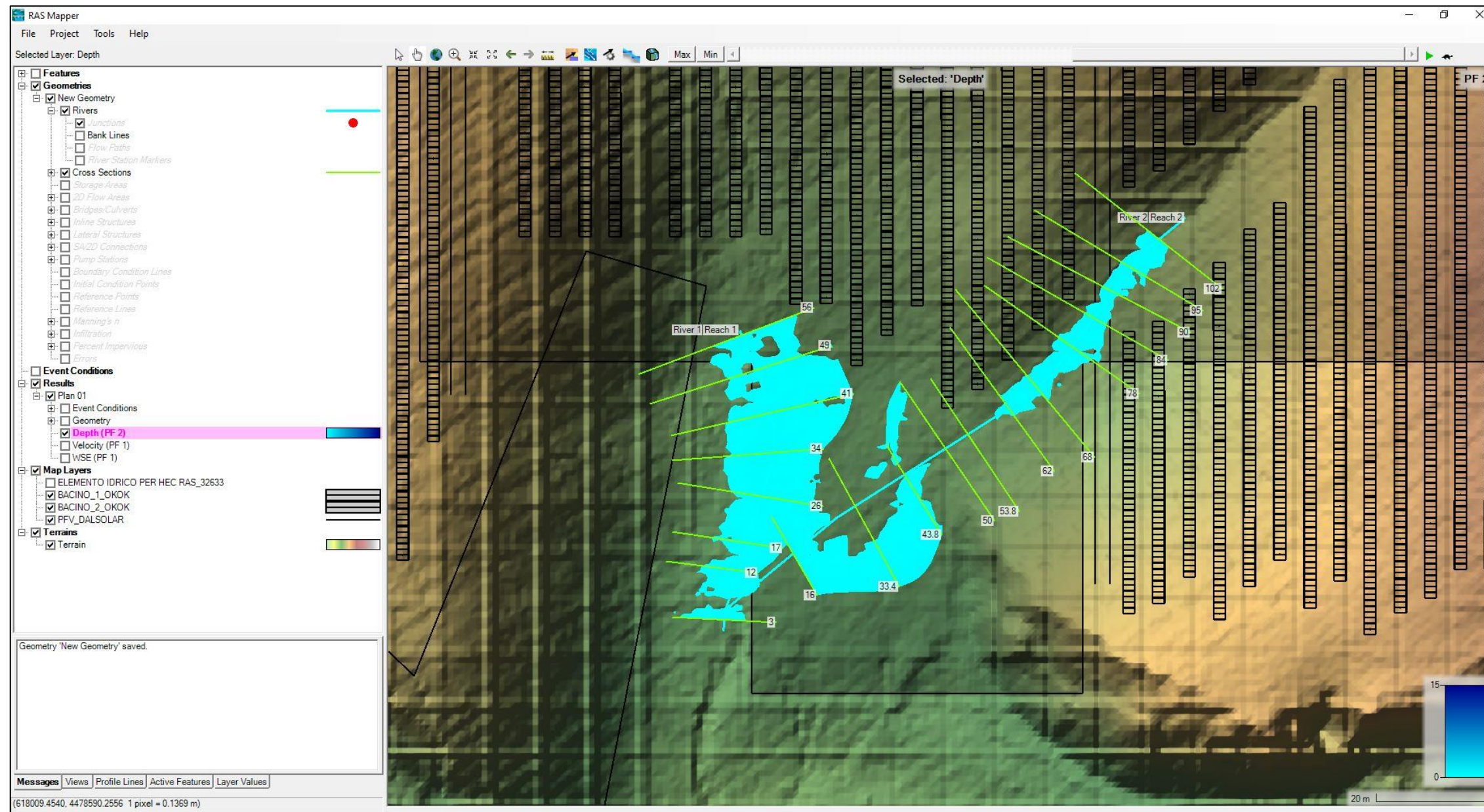


## 5 Mappa delle aree inondabili Q<sub>200</sub> anni

### 5.1 Bacino 1



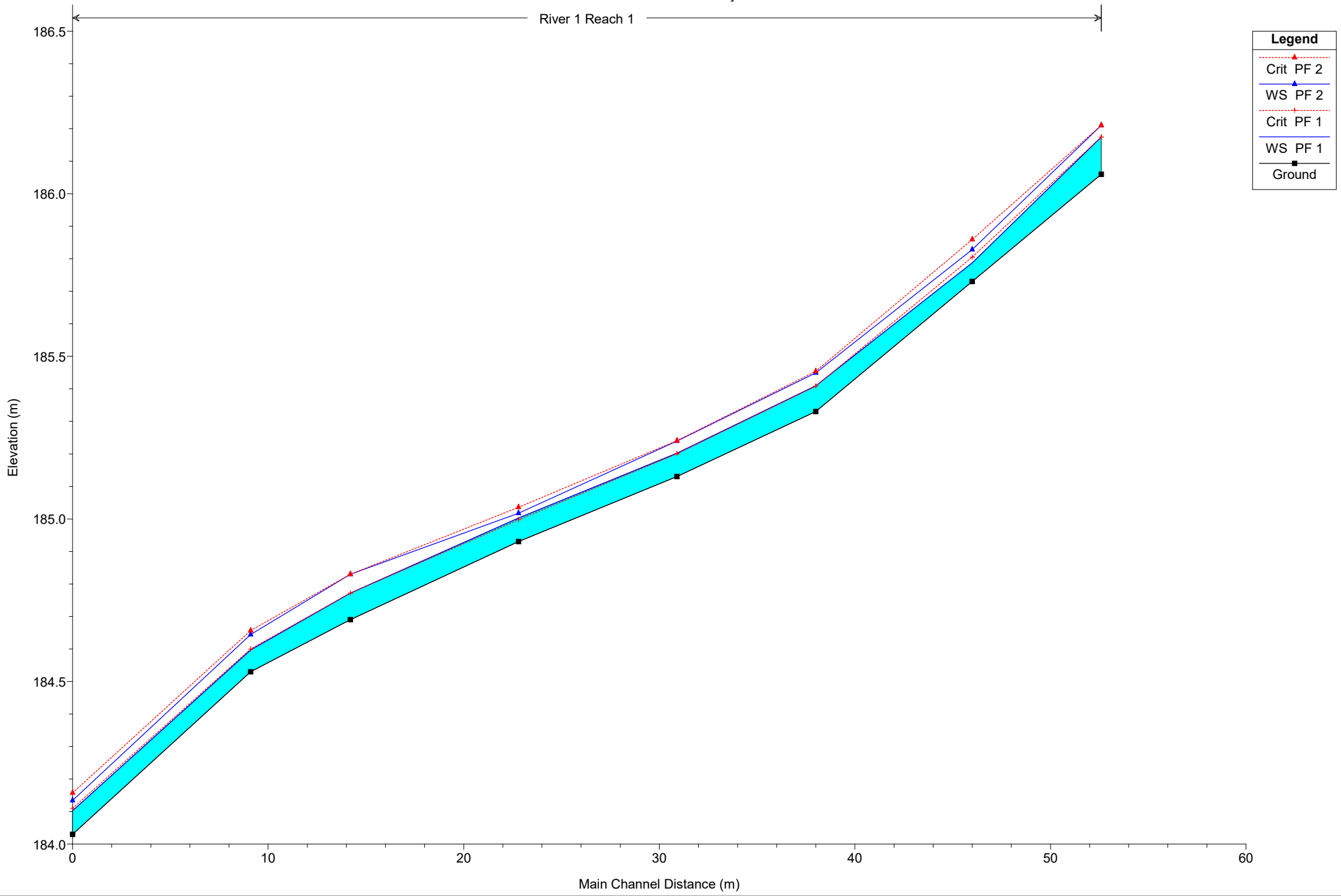
5.2 Bacino 2



|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

## 6 Profile plot

### 6.1 River 1

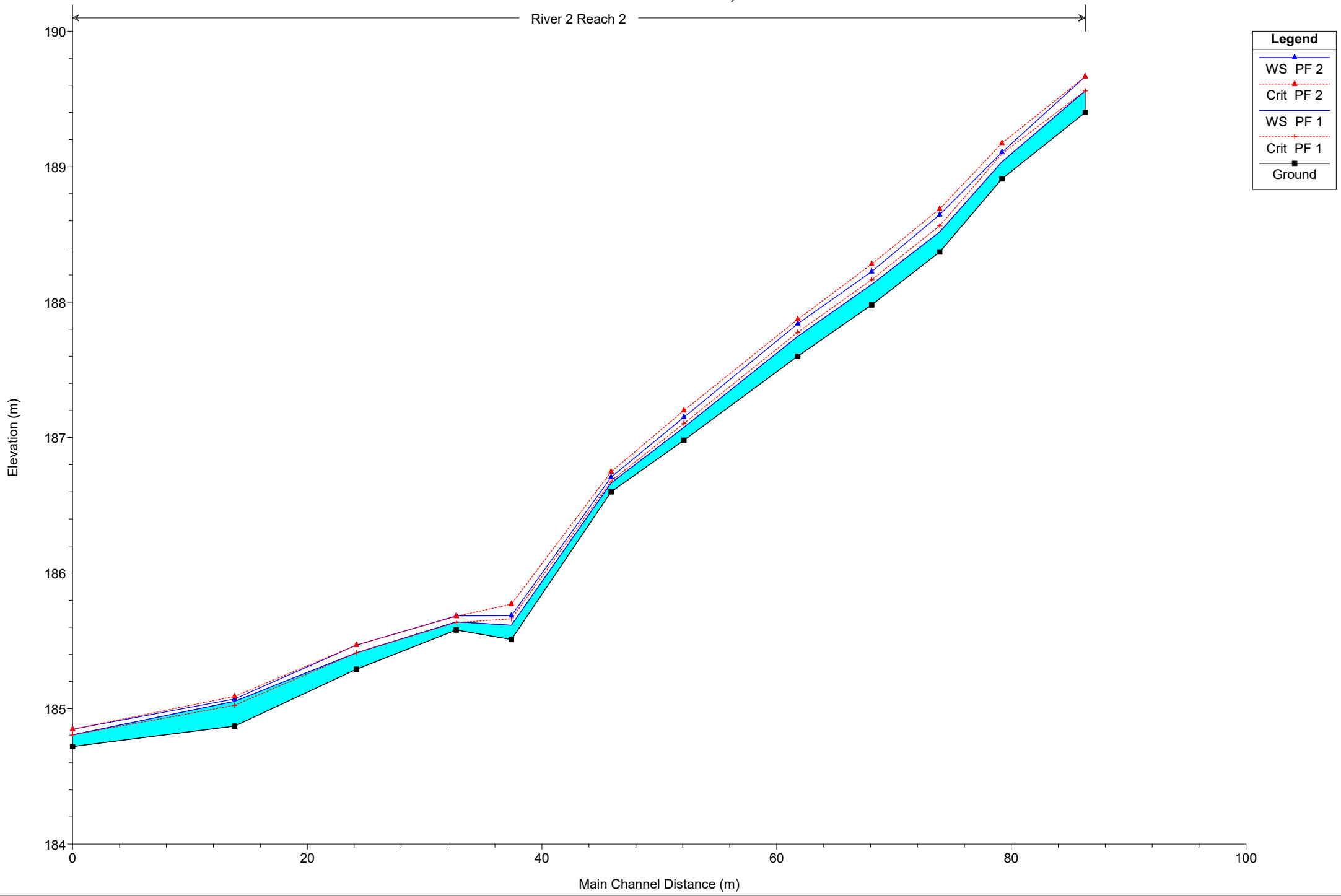


**Legend**

- Crit PF 2
- WS PF 2
- Crit PF 1
- WS PF 1
- Ground

|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

## 6.2 River 2

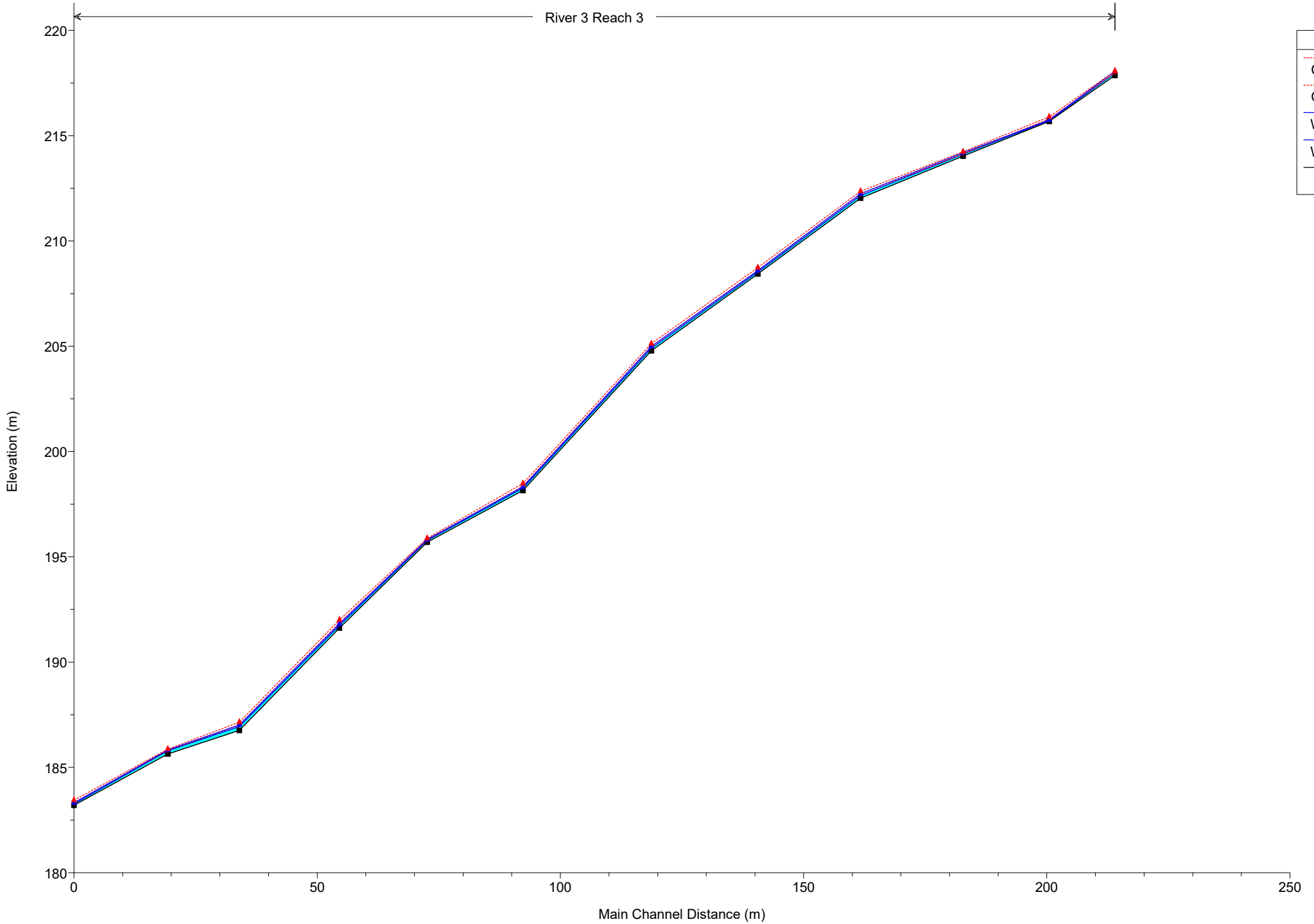




|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

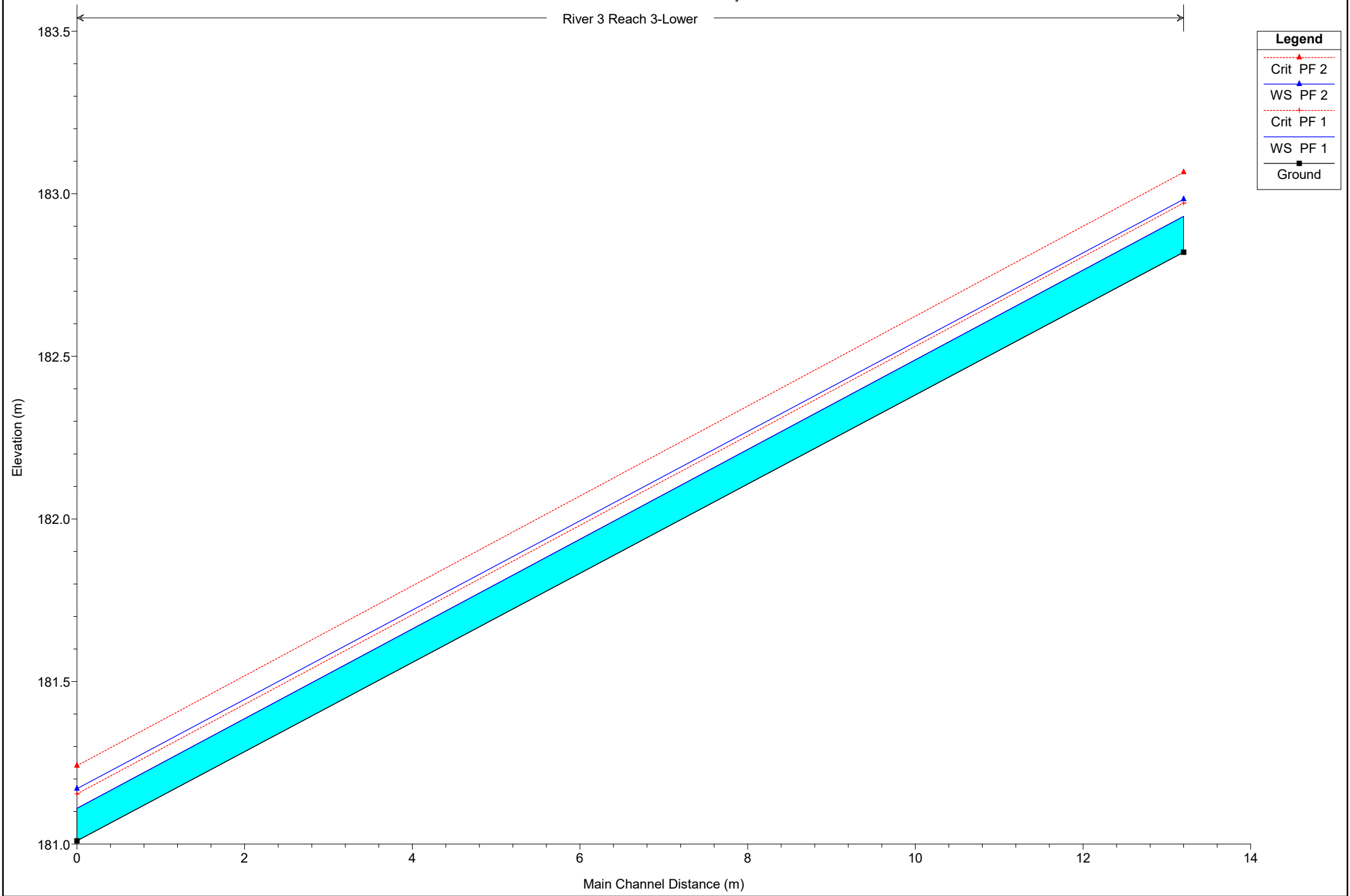
### 6.3 River 3

River 3 Reach 3



**Legend**

- Crit PF 2
- Crit PF 1
- WS PF 2
- WS PF 1
- Ground

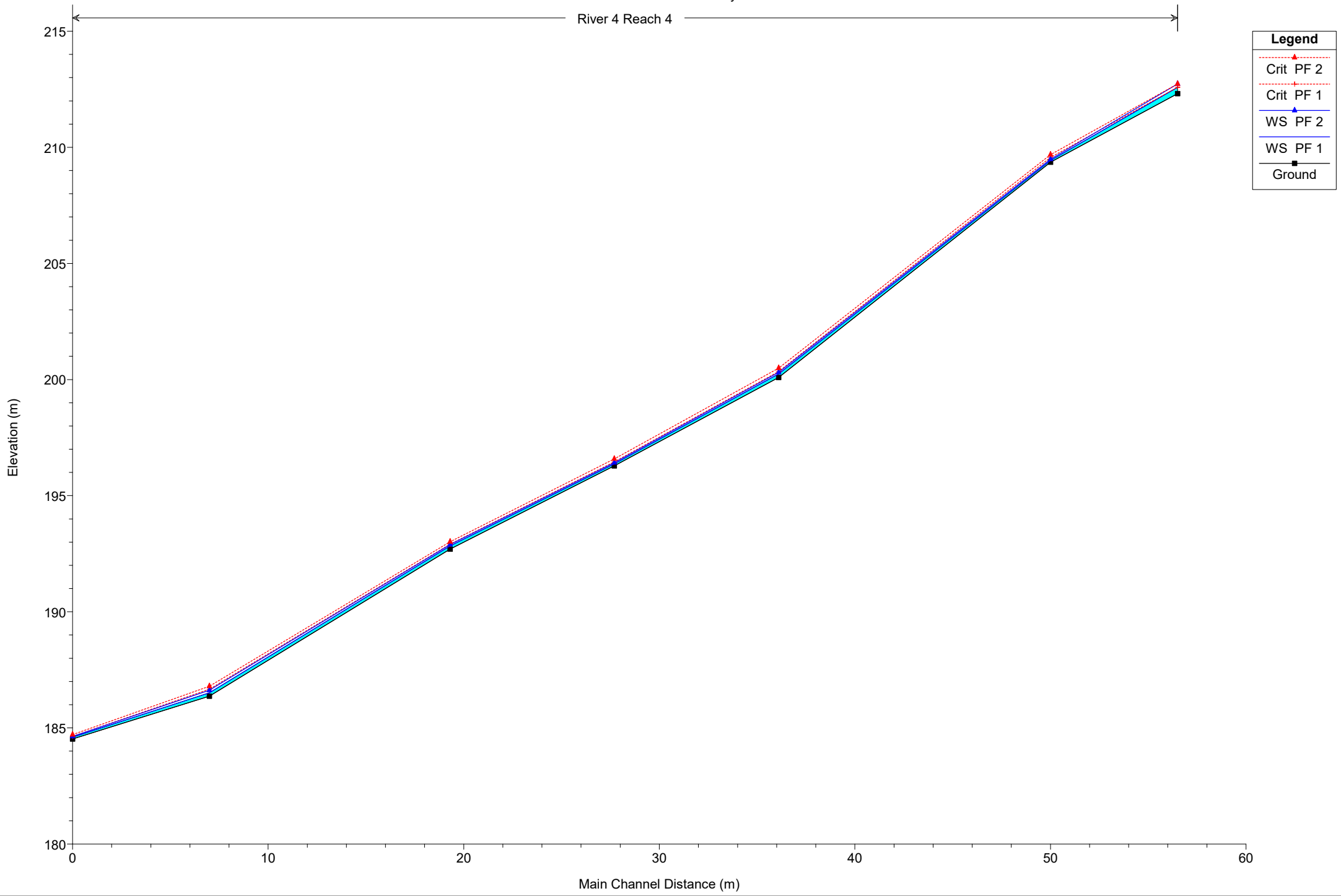


**Legend**

- Crit PF 2
- WS PF 2
- Crit PF 1
- WS PF 1
- Ground

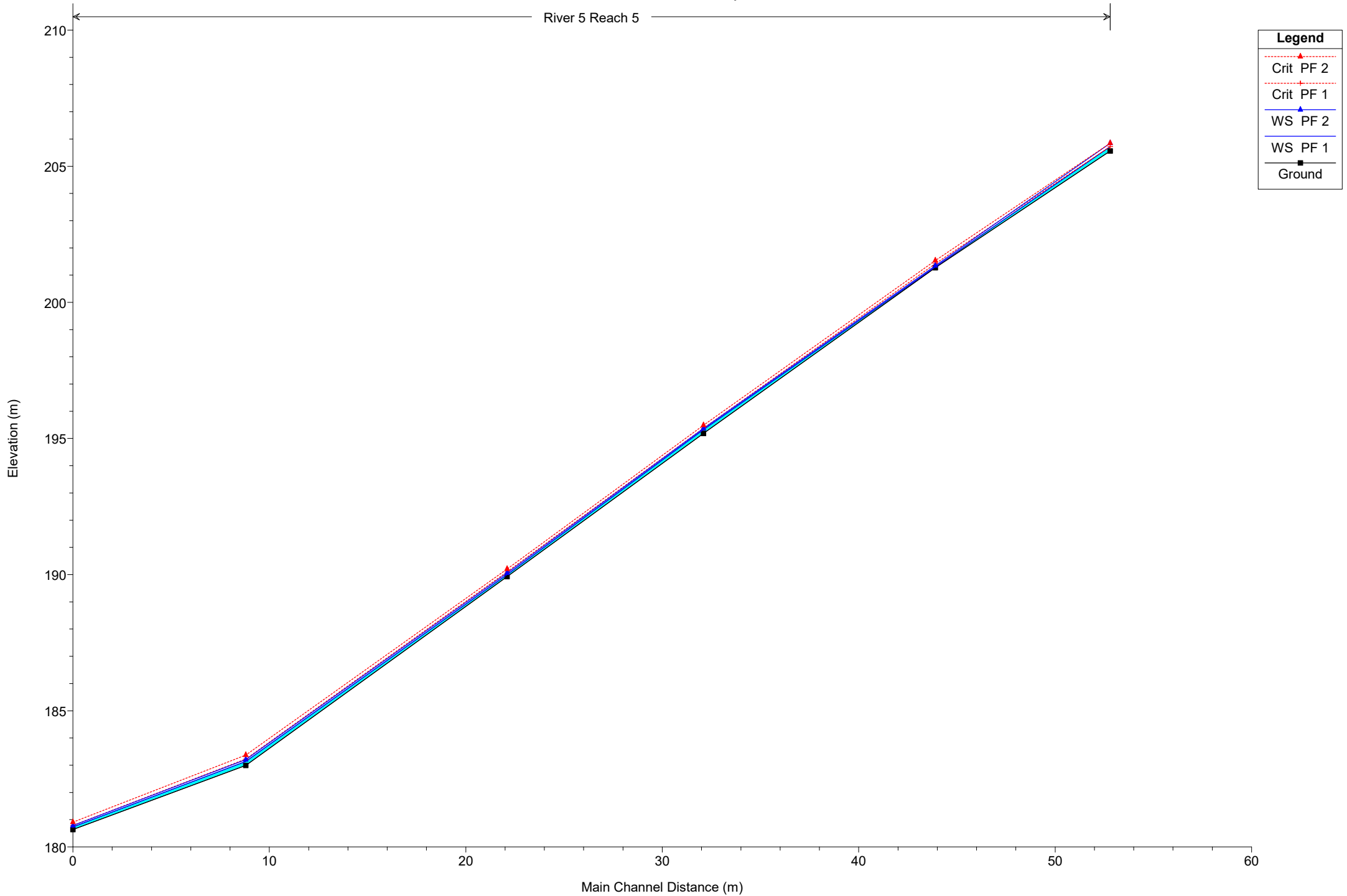
|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

#### 6.4 River 4



|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

## 6.5 River 5



**Legend**

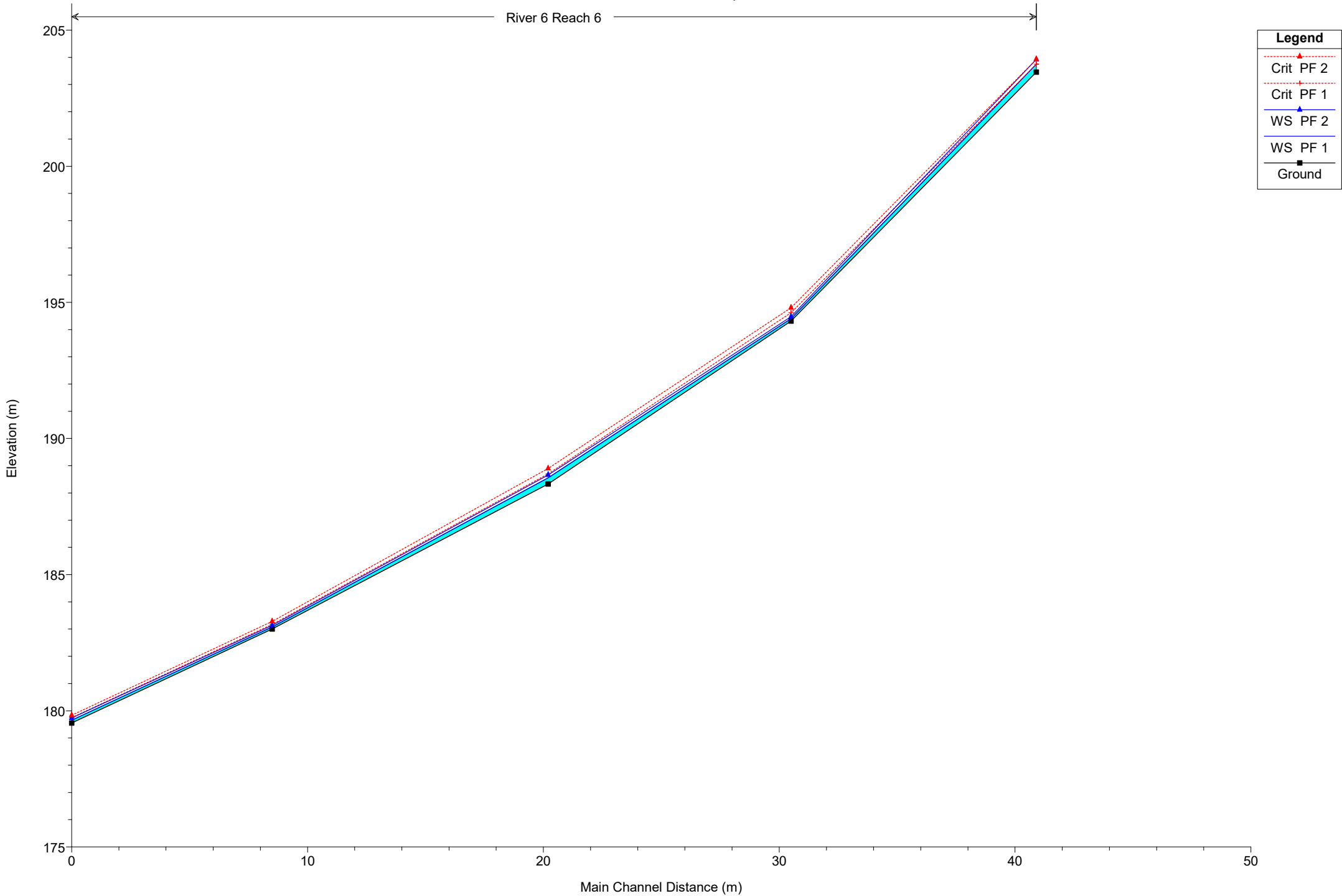
- Crit PF 2
- Crit PF 1
- WS PF 2
- WS PF 1
- Ground

|  |   |                               |
|--|---|-------------------------------|
|  | <p><b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b></p> | <p>DATA:<br/>GENNAIO 2022</p> |
|--|---|-------------------------------|

## 6.6 River 6



River 6 Reach 6



|  |  |                       |
|--|--|-----------------------|
|  | <b>PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA DELLA POTENZA NOMINALE DI 19.99 MW<br/>DENOMINATO "DALSOLAR1" IN LOCALITÀ QUADRONE NEL COMUNE DI FERRANDINA (MT)<br/>RELAZIONE IDROLOGICA E IDRAULICA CAMPO - VERIFICA DI COMPATIBILITÀ IDROLOGICA E IDRAULICA</b> | DATA:<br>GENNAIO 2022 |
|--|--|-----------------------|

## 7 Analisi dei risultati

Dai risultati ottenuti dalla verifica idraulica è emerso che la corrente risulta essere contenuta nelle sezioni per tutte le portate di piena di riferimento. Sono state riportate dettagliatamente tutte le sezioni dei bacini ed i relativi dati, grafici e tabellari.

Le opere in progetto, presentano un'interferenza con aree a potenziale rischio alluvione e, pertanto, è stata condotta l'analisi mediante modellazione idraulica con software Hec-Ras. Questo al fine di perimetrare le aree di effettivo rischio.

Dallo studio condotto si **conclude** precisando che:

Dall'analisi idraulica, condotta a mezzo software per i periodi di ritorno considerati di 30 e 200 anni, l'area del parco risulta esterna e, pertanto, non soggetta a rischio idraulico da alluvionamento.