ATTACHMENT 10

Water Surface Pressure Gradient for Windows (WSPGW) Analysis Proposed Option No. 2 (Lateral)

Note: This Attachment contains the WSPGW water surface profile results for the Proposed Option No. 2 lateral pipe, from Pine Avenue to junction point with the primary Option No. 2 pipe.

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FILE: lat2.WSW                          W S P G W  - EDIT LISTING - Version 14.06              Date: 7- 8-2009  Time:10:55:54
                                   WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING                                PAGE    1
 CARD  SECT  CHN   NO OF  AVE PIER  HEIGHT 1  BASE    ZL    ZR   INV   Y(1)  Y(2)  Y(3)  Y(4)  Y(5)  Y(6)  Y(7)  Y(8)  Y(9)  Y(10)
 CODE   NO   TYPE PIER/PIP WIDTH    DIAMETER  WIDTH              DROP

 CD      1    4      1             4.000
 CD      2    4      1             4.000
                                                W S P G W                                                          PAGE NO   1
                             WATER SURFACE PROFILE - TITLE CARD LISTING
HEADING LINE NO 1 IS -
                               Option 2 Lateral From Pine St
HEADING LINE NO 2 IS -
                               Connects to Main Pipe at Intersection With Hwy 18
HEADING LINE NO 3 IS -

                                                W S P G W                                                          PAGE NO   2
                             WATER SURFACE PROFILE - ELEMENT CARD LISTING
 ELEMENT NO   1 IS A SYSTEM OUTLET     *         *     *
                     U/S DATA   STATION    INVERT  SECT                                    W S ELEV
                                -950.000 5602.780    2                                      5605.900
 ELEMENT NO   2 IS A REACH             *         *     *
                     U/S DATA   STATION    INVERT  SECT              N                          RADIUS    ANGLE     ANG PT  MAN H
                                -384.600 5610.000    2              .013                          .000     .000      .000     0
 ELEMENT NO   3 IS A SYSTEM HEADWORKS                  *                    *
                     U/S DATA   STATION    INVERT  SECT                                    W S ELEV
                                -384.600 5610.000    2                                     5610.000
 FILE: lat2.WSW                          W S P G W - CIVILDESIGN Version 14.06                                      PAGE    1
                               Program Package Serial Number: 1521
                                          WATER SURFACE PROFILE LISTING                   Date: 7- 8-2009  Time:10:55:57
                           Option 2 Lateral From Pine St
                             Connects to Main Pipe at Intersection With Hwy 18

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         | Invert  |  Depth  |  Water  |    Q    |  Vel     Vel  |  Energy | Super |Critical|Flow Top|Height/|Base Wt|      |No Wth
 Station |  Elev   |  (FT)   |  Elev   |  (CFS)  | (FPS)    Head |  Grd.El.|  Elev | Depth  | Width  |Dia.-FT|or I.D.|  ZL  |Prs/Pip
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
 L/Elem  |Ch Slope |        |        |        |        SF Ave|    HF   |SE Dpth|Froude N|Norm Dp |  "N"  | X-Fall|  ZR  |Type Ch
*********|*********|********|********|********|*******|*******|*********|*******|********|********|*******|*******|***** |*******
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -950.000  5602.780    2.370  5605.150    107.00   13.79    2.95  5608.10     .00    3.13     3.93    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
  112.405    .0128                                        .0128     1.44     2.37    1.73     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -837.595  5604.215    2.370  5606.586    107.00   13.79    2.95  5609.54     .00    3.13     3.93    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
  237.690    .0128                                        .0124     2.95     2.37    1.73     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -599.904  5607.250    2.413  5609.664    107.00   13.50    2.83  5612.50     .00    3.13     3.91    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
  115.439    .0128                                        .0114     1.32     2.41    1.67     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -484.466  5608.725    2.512  5611.237    107.00   12.88    2.57  5613.81     .00    3.13     3.87    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
   48.229    .0128                                        .0101      .49     2.51    1.55     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -436.237  5609.340    2.618  5611.958    107.00   12.28    2.34  5614.30     .00    3.13     3.80    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
   26.331    .0128                                        .0090      .24     2.62    1.43     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -409.905  5609.677    2.731  5612.408    107.00   11.70    2.13  5614.54     .00    3.13     3.72    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
   15.076    .0128                                        .0080      .12     2.73    1.32     2.37    .013       .00   .00  PIPE
         |         |        |        |        |       |       |         |       |        |        |       |       |      |
 -394.830  5609.869    2.853  5612.722    107.00   11.16    1.93  5614.66     .00    3.13     3.62    4.000     .000   .00   1   .0
         -|       -|       -|       -|       -|       -|     -|       -|     -|       -|       -|       -|       -|     -|
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   7.832    .0128                                          .0071      .06     2.85    1.21    2.37    .013       .00   .00  PIPE
        |         |         |         |         |              |         |       |        |        |       |       |      |
-386.998  5609.969    2.984  5612.954    107.00   10.64    1.76  5614.71     .00    3.13     3.48    4.000     .000   .00   1   .0
       -|-       -|-      -|-       -|-       -|-     -|-     -|-       -|-     -|-      -|-      -|-     -|-     -|-     |-
   2.398    .0128                                          .0064      .02     2.98    1.10    2.37    .013       .00   .00  PIPE
        |         |         |         |         |              |         |       |        |        |       |       |      |
-384.600  5610.000    3.130  5613.130    107.00   10.14    1.60  5614.73     .00    3.13     3.30    4.000     .000   .00   1   .0
       -|-       -|-      -|-       -|-       -|-     -|-     -|-       -|-     -|-      -|-      -|-     -|-     -|-     |-
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