# Appendix B – ICPR Input File (Existing Conditions)

```
Advanced Interconnected Channel & Pond Routing (ICPR Ver 2.20) [1]
Copyright 1995, Streamline Technologies, Inc.

Church Creek Existing Conditions (Dec 2000)



********** Input Report ************************************************************
--------Class: Node-------------------------------------------------------------
   Name: N-G010     Base Flow(cfs): 0          Init Stage(ft): 3.5
  Group: BL                                    Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G020     Base Flow(cfs): 0          Init Stage(ft): 3.5
  Group: BL                                    Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G030     Base Flow(cfs): 0          Init Stage(ft): 6
  Group: BL                                    Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G040     Base Flow(cfs): 0          Init Stage(ft): 6
  Group: BL                                    Warn Stage(ft): 11.5
Comment:

Time(hrs)    Stage(ft)
0            6
12           8
24           8
36           7
48           6
--------Class: Node-------------------------------------------------------------
   Name: N-G050     Base Flow(cfs): 0          Init Stage(ft): 4.3
  Group: BL                                    Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G060     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: BL                                    Warn Stage(ft): 13.9
Comment: PS N-I1

Stage(ft)    Area(ac)
3.5          0.1
9.5          0.22
10           0.24
11           0.3
12           0.35
13           0.41
14           0.41
--------Class: Node-------------------------------------------------------------
   Name: N-G070     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: BL                                    Warn Stage(ft): 13.5
Comment: PS N-H1

Stage(ft)    Area(ac)
3.5          0.04
9.5          0.09
10           0.1
11           0.12
12           0.14
13           0.17
--------Class: Node-------------------------------------------------------------
   Name: N-G080     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: BL                                    Warn Stage(ft): 13
Comment: PS N-G1

Stage(ft)    Area(ac)
3.5          0.27
9.5          0.65
10           0.7
11           0.8
12           0.89
13           0.99
--------Class: Node-------------------------------------------------------------
   Name: N-G090     Base Flow(cfs): 0          Init Stage(ft): 12
  Group: BL                                    Warn Stage(ft): 15
Comment: PS N-F1

Stage(ft)    Area(ac)
6            0.38
12           0.69
```

```
13          0.8
14          0.91
15          1.02
--------Class: Node-------------------------------------------------------------
   Name: N-G100     Base Flow(cfs): 0          Init Stage(ft): 4.6
  Group: BL                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G110     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: BL                                   Warn Stage(ft): 14
Comment: PS N-D1

Stage(ft)    Area(ac)
3           0.11
10          0.28
11          0.32
12          0.37
13          0.42
14          0.51
--------Class: Node-------------------------------------------------------------
   Name: N-G120     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: BL                                   Warn Stage(ft): 14
Comment: PS N-C1

Stage(ft)    Area(ac)
3.5         0.13
9.5         0.3
10          0.32
11          0.37
12          0.41
13          0.46
14          0.51
--------Class: Node-------------------------------------------------------------
   Name: N-G130     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: BL                                   Warn Stage(ft): 15
Comment: PS N-B1

Stage(ft)    Area(ac)
4.5         0.26
10.5        0.39
11          0.42
12          0.47
13          0.52
14          0.58
15          0.64
--------Class: Node-------------------------------------------------------------
   Name: N-G140     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: BL                                   Warn Stage(ft): 17
Comment: PS N-A1

Stage(ft)    Area(ac)
4.5         0.13
10.5        0.24
11          0.27
12          0.31
13          0.36
14          0.41
15          0.47
16          0.59
17          0.72
--------Class: Node-------------------------------------------------------------
   Name: N-G150     Base Flow(cfs): 0          Init Stage(ft): 10.75
  Group: BL                                   Warn Stage(ft): 13.5
Comment: PS N-OFF

Stage(ft)    Area(ac)
10.75       0.001
11.2        0.002
12          0.04
13          0.2
13.5        0.31
17          0.31
--------Class: Node-------------------------------------------------------------
   Name: N-G160     Base Flow(cfs): 0          Init Stage(ft): 11
  Group: BL                                   Warn Stage(ft): 14
Comment: PS N-E1

Stage(ft)    Area(ac)
5           0.2
11          0.45
12          0.52
13          0.6
14          0.68
--------Class: Node-------------------------------------------------------------
   Name: N-G170     Base Flow(cfs): 0          Init Stage(ft): 5.8
  Group: BL                                   Warn Stage(ft): 12
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-G180     Base Flow(cfs): 0          Init Stage(ft): 5.7
  Group: BL                                   Warn Stage(ft): 12
```

```
Comment:

Stage(ft)    Area(ac)
5.7          1
10           7
12           52
--------Class: Node----------------------------------------------------------
   Name: N-B010     Base Flow(cfs): 0          Init Stage(ft): 1.9
  Group: HH                                   Warn Stage(ft): 8.1
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B020     Base Flow(cfs): 0          Init Stage(ft): 1.9
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B030     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
2            0.68
5            0.87
5.5          0.95
6            1.01
6.5          1.07
7            1.14
7.5          1.7
8            2.21
8.5          2.64
11           2.64
--------Class: Node----------------------------------------------------------
   Name: N-B040     Base Flow(cfs): 0          Init Stage(ft): 8
  Group: HH                                   Warn Stage(ft): 11
Comment: Elevation of pond set 3 ft lower than plans

Stage(ft)    Area(ac)
7            1.36
7.5          1.37
8            1.5
8.5          1.64
9            1.79
9.5          1.99
10           2.1
10.5         2.2
11           2.61
--------Class: Node----------------------------------------------------------
   Name: N-B050     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B060     Base Flow(cfs): 0          Init Stage(ft): 2.25
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B070     Base Flow(cfs): 0          Init Stage(ft): 2.5
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B080     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 8.55
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B090     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B100     Base Flow(cfs): 0          Init Stage(ft): 3.5
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B110     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-B120     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
```

```
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B130     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B140     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B150     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B160     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B170     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 9.5
Comment:

Stage(ft)    Area(ac)
2            1.1
5            1.4
6            1.44
7            1.51
8            1.57
9            1.64
9.5          2.54
11           2.54
--------Class: Node-------------------------------------------------------------
   Name: N-B180     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B190     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B200     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B210     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B220     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: HH                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-B230     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: HH                                   Warn Stage(ft): 13
Comment: Elevation of pond set 3 ft lower than plans

Stage(ft)    Area(ac)
7            4.85
9            4.85
9.5          4.93
10           5.3
10.5         5.41
11           5.51
11.5         5.87
12           6.14
13           6.82
--------Class: Node-------------------------------------------------------------
   Name: N-F010     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: MC                                   Warn Stage(ft): 13.25
Comment: PS N-BB1

Stage(ft)    Area(ac)
1            1.7
7            2.47
```

```
8            2.82
9            3.05
10           3.54
11           4.02
12           4.28
13           4.55
13.25        4.65
--------Class: Node-------------------------------------------------------------
   Name: N-F020     Base Flow(cfs): 0          Init Stage(ft): 3
  Group: MC                                   Warn Stage(ft): 12
Comment: PS N-AB4A

Stage(ft)    Area(ac)
3            0.001
12           0.001
13           0.001
--------Class: Node-------------------------------------------------------------
   Name: N-F030     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: MC                                   Warn Stage(ft): 13
Comment: PS N-AB4

Stage(ft)    Area(ac)
1            1.4626
7            2.0295
8            2.2231
9            2.4191
10           2.6174
11           2.818
12           3.0834
13           3.2811
--------Class: Node-------------------------------------------------------------
   Name: N-F040     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: MC                                   Warn Stage(ft): 13
Comment: PS N-AB3

Stage(ft)    Area(ac)
3            0.3059
9            0.5167
10           0.5986
11           0.6827
12           0.7692
13           0.8579
--------Class: Node-------------------------------------------------------------
   Name: N-F050     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: MC                                   Warn Stage(ft): 13.3
Comment: PS N-AB2A

Stage(ft)    Area(ac)
6.5          0.001
13           0.001
14           0.001
--------Class: Node-------------------------------------------------------------
   Name: N-F060     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: MC                                   Warn Stage(ft): 13
Comment: PS N-AB2

Stage(ft)    Area(ac)
3.5          1.022
9.5          1.3391
10           1.3948
11           1.5088
12           1.6257
13           1.7453
14           1.7453
--------Class: Node-------------------------------------------------------------
   Name: N-F070     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: MC                                   Warn Stage(ft): 15.65
Comment: PS N-AB1

Stage(ft)    Area(ac)
10.5         0.001
15.65        0.001
--------Class: Node-------------------------------------------------------------
   Name: N-F080     Base Flow(cfs): 0          Init Stage(ft): 12.3
  Group: MC                                   Warn Stage(ft): 15.65
Comment: PS N-AB1A

Stage(ft)    Area(ac)
12.3         0.001
13           0.005
14           0.036
15.6         0.2
17           0.2
--------Class: Node-------------------------------------------------------------
   Name: N-A010     Base Flow(cfs): 0          Init Stage(ft): 0
  Group: RR                                   Warn Stage(ft): 0
Comment: Tailwater from Ashley (Max HHW & HLW for past 10y)

Time(hrs)    Stage(ft)
0            0
4            -1.1
10           4.8
16           -1.1
22           4.8
```

```
28          -1.1
34          4.8
40          -1.1
46          4.8
52          -1.1
58          4.8
64          -1.1
70          4.8
76          -1.1
82          4.8
88          -1.1
94          4.8
400         4.8
--------Class: Node-------------------------------------------------------------
   Name: N-A011     Base Flow(cfs): 0          Init Stage(ft): 0
  Group: RR                                   Warn Stage(ft): 0
Comment: Tide info for 27July01 storm

Ghost Node
0           0
3           -2
10          2.5
16          -1.9
22          3.8
28          -1.1
32          1.5
--------Class: Node-------------------------------------------------------------
   Name: N-A015     Base Flow(cfs): 0          Init Stage(ft): 0
  Group: RR                                   Warn Stage(ft): 0
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A020     Base Flow(cfs): 0          Init Stage(ft): 0
  Group: RR                                   Warn Stage(ft): 0
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A030     Base Flow(cfs): 0          Init Stage(ft): 0
  Group: RR                                   Warn Stage(ft): 0
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A040     Base Flow(cfs): 0          Init Stage(ft): 1
  Group: RR                                   Warn Stage(ft): 0
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A050     Base Flow(cfs): 0          Init Stage(ft): 2
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A060     Base Flow(cfs): 0          Init Stage(ft): 3
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A090     Base Flow(cfs): 0          Init Stage(ft): 5
  Group: RR                                   Warn Stage(ft): 9
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A100     Base Flow(cfs): 0          Init Stage(ft): 5.85
  Group: RR                                   Warn Stage(ft): 14.8
Comment:

Stage(ft)    Area(ac)
5.85        0.2
8           0.66
8.5         3.13
9           6.41
9.5         11.24
10          13.81
10.5        15.95
11          18.6
--------Class: Node-------------------------------------------------------------
   Name: N-A110     Base Flow(cfs): 0          Init Stage(ft): 1.5
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-A120     Base Flow(cfs): 0          Init Stage(ft): 1.7
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
```

```
--------Class: Node----------------------------------------------------------
   Name: N-A130     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-A140     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: RR                                   Warn Stage(ft): 8
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C010     Base Flow(cfs): 0          Init Stage(ft): 3
  Group: SM1                                  Warn Stage(ft): 12.4
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C020     Base Flow(cfs): 0          Init Stage(ft): 3.2
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C030     Base Flow(cfs): 0          Init Stage(ft): 3.4
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C040     Base Flow(cfs): 0          Init Stage(ft): 3.6
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C050     Base Flow(cfs): 0          Init Stage(ft): 3.7
  Group: SM1                                  Warn Stage(ft): 8.9
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C060     Base Flow(cfs): 0          Init Stage(ft): 4.78
  Group: SM1                                  Warn Stage(ft): 9.6
Comment:

Stage(ft)    Area(ac)
0            0
7.5          0
7.75         0.1
8            0.2
8.5          0.5
9            1.08
9.5          3.69
10           4.52
10.5         5.3
11           5.87
11.5         6.78
12           6.78
--------Class: Node----------------------------------------------------------
   Name: N-C070     Base Flow(cfs): 0          Init Stage(ft): 3.7
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C080     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: SM1                                  Warn Stage(ft): 11.4
Comment:

Stage(ft)    Area(ac)
3.9          0
4            0.3
6.8          0.4
7            2
7.5          2.26
8            2.33
9            2.53
9.5          2.98
10           3.22
10.5         3.47
11           3.88
11.5         7.2
12           16
--------Class: Node----------------------------------------------------------
   Name: N-C090     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: SM1                                  Warn Stage(ft): 11.9
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C100     Base Flow(cfs): 0          Init Stage(ft): 4
  Group: SM1                                  Warn Stage(ft): 11.9
```

```
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C110     Base Flow(cfs): 0          Init Stage(ft): 7.8
  Group: SM1                                  Warn Stage(ft): 9.5
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C120     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C130     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C140     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: SM1                                  Warn Stage(ft): 11.5
Comment:

Stage(ft)    Area(ac)
9.5          0.58
10           0.62
10.5         0.7
11           0.74
11.5         0.9
11.6         1.92
12           2.78
12.5         3.3
--------Class: Node-------------------------------------------------------------
   Name: N-C150     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C160     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C170     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C180     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C190     Base Flow(cfs): 0          Init Stage(ft): 3
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C200     Base Flow(cfs): 0          Init Stage(ft): 3.75
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C210     Base Flow(cfs): 0          Init Stage(ft): 3.75
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C220     Base Flow(cfs): 0          Init Stage(ft): 4.5
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-C230     Base Flow(cfs): 0          Init Stage(ft): 5.7
  Group: SM1                                  Warn Stage(ft): 9.8
Comment:

Stage(ft)    Area(ac)
5.7          2.53
7.5          2.53
8            2.76
8.5          2.89
9            3.06
```

```
9.5          4.82
10           5.67
10.5         6.61
11           7.4
11.5         10.95
12           10.95
--------Class: Node----------------------------------------------------------
   Name: N-C240     Base Flow(cfs): 0          Init Stage(ft): 6
  Group: SM1                                  Warn Stage(ft): 10.9
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C250     Base Flow(cfs): 0          Init Stage(ft): 7.5
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C260     Base Flow(cfs): 0          Init Stage(ft): 7.85
  Group: SM1                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-C270     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: SM1                                  Warn Stage(ft): 14.5
Comment:

Stage(ft)    Area(ac)
6            0
7            1
9            1.5
10           1.6
11           1.8
11.5         2.84
12           4
13           6.93
14           12.89
14.5         15.6
15           19.1
--------Class: Node----------------------------------------------------------
   Name: N-D010     Base Flow(cfs): 0          Init Stage(ft): 3
  Group: SM2                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-D020     Base Flow(cfs): 0          Init Stage(ft): 3.5
  Group: SM2                                  Warn Stage(ft): 9
Comment:

Stage(ft)    Area(ac)
3            1
3.5          1.5
5.5          2.26
6            2.5
6.5          2.71
7.5          4.94
8            6.14
8.5          7.3
9            9.58
12           9.58
--------Class: Node----------------------------------------------------------
   Name: N-D030     Base Flow(cfs): 0          Init Stage(ft): 5.6
  Group: SM2                                  Warn Stage(ft): 9
Comment:

Stage(ft)    Area(ac)
5            2.35
5.6          2.35
6            2.85
7            3.08
8            4.95
8.5          7.48
9            7.87
12           7.87
--------Class: Node----------------------------------------------------------
   Name: N-D040     Base Flow(cfs): 0          Init Stage(ft): 6.17
  Group: SM2                                  Warn Stage(ft): 11
Comment:

Stage(ft)    Area(ac)
6            0.66
7.5          0.89
8            0.97
9            1.15
9.5          1.59
10           1.92
11           3.59
--------Class: Node----------------------------------------------------------
   Name: N-D050     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: SM2                                  Warn Stage(ft): 12
Comment:
```

```
Stage(ft)    Area(ac)
8            0
8.99         0
9            0.85
9.5          1.2
10           1.3
10.5         1.4
11           1.5
12           1.9
--------Class: Node-------------------------------------------------------------
   Name: N-D060     Base Flow(cfs): 0          Init Stage(ft): 9.5
  Group: SM2                                  Warn Stage(ft): 16
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D070     Base Flow(cfs): 0          Init Stage(ft): 13.6
  Group: SM2                                  Warn Stage(ft): 14.6
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D080     Base Flow(cfs): 0          Init Stage(ft): 14.2
  Group: SM2                                  Warn Stage(ft): 16.5
Comment:

Stage(ft)    Area(ac)
13           0.45
14.2         0.45
15.5         0.73
16           0.96
16.5         1.18
--------Class: Node-------------------------------------------------------------
   Name: N-D090     Base Flow(cfs): 0          Init Stage(ft): 6.2
  Group: SM2                                  Warn Stage(ft): 10.5
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D100     Base Flow(cfs): 0          Init Stage(ft): 6.2
  Group: SM2                                  Warn Stage(ft): 10.5
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D110     Base Flow(cfs): 0          Init Stage(ft): 6.2
  Group: SM2                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
6            0.45
7.5          0.56
9            0.62
10           1.06
12           1.06
--------Class: Node-------------------------------------------------------------
   Name: N-D120     Base Flow(cfs): 0          Init Stage(ft): 4.8
  Group: SM2                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D130     Base Flow(cfs): 0          Init Stage(ft): 4.5
  Group: SM2                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D140     Base Flow(cfs): 0          Init Stage(ft): 5
  Group: SM2                                  Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D150     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: SM2                                  Warn Stage(ft): 10.6
Comment:

Stage(ft)    Area(ac)
--------Class: Node-------------------------------------------------------------
   Name: N-D160     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: SM2                                  Warn Stage(ft): 12.1
Comment:

Stage(ft)    Area(ac)
6.9          0
7            1.8
8            1.81
9            2.2
10           2.61
10.7         2.89
11           3
12           7.26
```

```
12.5         15
13           15
--------Class: Node----------------------------------------------------------
   Name: N-D170     Base Flow(cfs): 0          Init Stage(ft): 7.5
  Group: SM2                                  Warn Stage(ft): 10.8
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-D180     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: SM2                                  Warn Stage(ft): 14
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-D190     Base Flow(cfs): 0          Init Stage(ft): 10
  Group: SM2                                  Warn Stage(ft): 12
Comment:

Stage(ft)    Area(ac)
10           0.7
10.5         0.75
12           1
--------Class: Node----------------------------------------------------------
   Name: N-D200     Base Flow(cfs): 0          Init Stage(ft): 8
  Group: SM2                                  Warn Stage(ft): 10.8
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-D210     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: SM2                                  Warn Stage(ft): 13
Comment: PS N010A

Stage(ft)    Area(ac)
9.5          1.0507
10           1.1426
11           1.3282
12           1.5161
13           1.7063
15           1.7063
--------Class: Node----------------------------------------------------------
   Name: N-D220     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: SM2                                  Warn Stage(ft): 14
Comment: PS N010

Stage(ft)    Area(ac)
10.5         0.5132
11           0.56
12           0.6554
13           0.7532
14           0.8532
15           0.8532
--------Class: Node----------------------------------------------------------
   Name: N-E010     Base Flow(cfs): 0          Init Stage(ft): 5.2
  Group: VG                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
--------Class: Node----------------------------------------------------------
   Name: N-E020     Base Flow(cfs): 0          Init Stage(ft): 8
  Group: VG                                   Warn Stage(ft): 11
Comment: PS N024

Stage(ft)    Area(ac)
8            1.1122
9            1.209
10           1.3081
11           1.4906
14           1.4906
--------Class: Node----------------------------------------------------------
   Name: N-E030     Base Flow(cfs): 0          Init Stage(ft): 8
  Group: VG                                   Warn Stage(ft): 11
Comment: PS N023

Stage(ft)    Area(ac)
8            0.2219
9            0.2677
10           0.3158
11           0.3662
14           0.3662
--------Class: Node----------------------------------------------------------
   Name: N-E040     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: VG                                   Warn Stage(ft): 12
Comment: PS N022

Stage(ft)    Area(ac)
9            1.8386
10           20.547
11           2.2732
12           2.4939
14           2.4939
--------Class: Node----------------------------------------------------------
   Name: N-E050     Base Flow(cfs): 0          Init Stage(ft): 9
```

```
  Group: VG                                  Warn Stage(ft): 12
Comment: PS N021

Stage(ft)    Area(ac)
9            0.7103
10           0.7944
11           0.9038
12           0.9697
14           0.9697
--------Class: Node-------------------------------------------------------------
   Name: N-E060     Base Flow(cfs): 0          Init Stage(ft): 10
  Group: VG                                  Warn Stage(ft): 14
Comment: PS N020

Stage(ft)    Area(ac)
10           0.3214
11           0.3652
12           0.4113
13           0.4598
14           0.5105
--------Class: Node-------------------------------------------------------------
   Name: N-E070     Base Flow(cfs): 0          Init Stage(ft): 10
  Group: VG                                  Warn Stage(ft): 14
Comment: PS N019

Stage(ft)    Area(ac)
10           0.4076
11           0.4584
12           0.5115
13           0.5669
14           0.6246
15           0.6246
--------Class: Node-------------------------------------------------------------
   Name: N-E080     Base Flow(cfs): 0          Init Stage(ft): 10
  Group: VG                                  Warn Stage(ft): 14
Comment: PS N018

Stage(ft)    Area(ac)
10           0.4076
11           0.4584
12           0.5155
13           0.5669
14           0.6246
15           0.6246
--------Class: Node-------------------------------------------------------------
   Name: N-E090     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: VG                                  Warn Stage(ft): 15
Comment: PS N012

Stage(ft)    Area(ac)
10.5         0.7225
11           0.7752
12           0.8763
13           0.9797
14           1.0854
15           1.1934
--------Class: Node-------------------------------------------------------------
   Name: N-E100     Base Flow(cfs): 0          Init Stage(ft): 11
  Group: VG                                  Warn Stage(ft): 14
Comment: PS N011

Stage(ft)    Area(ac)
11           1.5551
12           1.7608
13           1.9687
14           2.179
16           2.179
--------Class: Node-------------------------------------------------------------
   Name: N-E110     Base Flow(cfs): 0          Init Stage(ft): 11
  Group: VG                                  Warn Stage(ft): 14
Comment: PS N005A

Stage(ft)    Area(ac)
11           0.6795
12           0.8032
13           0.9292
14           1.0576
17           1.0576
--------Class: Node-------------------------------------------------------------
   Name: N-E120     Base Flow(cfs): 0          Init Stage(ft): 13
  Group: VG                                  Warn Stage(ft): 16
Comment: PS N008

Stage(ft)    Area(ac)
13           0.372
14           0.4359
15           0.5406
16           0.6254
17           0.6254
--------Class: Node-------------------------------------------------------------
   Name: N-E130     Base Flow(cfs): 0          Init Stage(ft): 13
  Group: VG                                  Warn Stage(ft): 16
Comment: PS N007
```

```
Stage(ft)    Area(ac)
13           0.3624
14           0.4208
15           0.4815
16           0.5446
17           0.5446
--------Class: Node-------------------------------------------------------------
   Name: N-E140     Base Flow(cfs): 0          Init Stage(ft): 15
  Group: VG                                   Warn Stage(ft): 18.5
Comment: PS N006

Stage(ft)    Area(ac)
15           0.3071
16           0.3596
17           0.4144
18           0.4324
18.5         0.5775
--------Class: Node-------------------------------------------------------------
   Name: N-E150     Base Flow(cfs): 0          Init Stage(ft): 14
  Group: VG                                   Warn Stage(ft): 17
Comment: PS N002

Stage(ft)    Area(ac)
14           0.1281
15           0.1676
16           0.2093
17           0.2534
19           0.2534
--------Class: Node-------------------------------------------------------------
   Name: N-E160     Base Flow(cfs): 0          Init Stage(ft): 15
  Group: VG                                   Warn Stage(ft): 18
Comment: PS N001

Stage(ft)    Area(ac)
15           0.3436
16           0.3967
17           0.452
18           0.5097
19           0.5097
--------Class: Node-------------------------------------------------------------
   Name: N-E170     Base Flow(cfs): 0          Init Stage(ft): 13
  Group: VG                                   Warn Stage(ft): 16
Comment: PS N005

Stage(ft)    Area(ac)
13           0.2747
14           0.3191
15           0.3658
16           0.4149
17           0.4149
--------Class: Node-------------------------------------------------------------
   Name: N-E180     Base Flow(cfs): 0          Init Stage(ft): 14
  Group: VG                                   Warn Stage(ft): 17
Comment: PS N004

Stage(ft)    Area(ac)
14           0.1664
15           0.2075
16           0.251
17           0.2968
18           0.2968
--------Class: Node-------------------------------------------------------------
   Name: N-E190     Base Flow(cfs): 0          Init Stage(ft): 15
  Group: VG                                   Warn Stage(ft): 18
Comment: PS N003

Stage(ft)    Area(ac)
15           0.2467
16           0.2899
17           0.3353
18           0.3831
20           0.3831
--------Class: Node-------------------------------------------------------------
   Name: N-E200     Base Flow(cfs): 0          Init Stage(ft): 8
  Group: VG                                   Warn Stage(ft): 11
Comment: PS N017A

Stage(ft)    Area(ac)
8            0.8361
9            0.9189
10           1.0041
11           1.0915
14           1.0915
--------Class: Node-------------------------------------------------------------
   Name: N-E210     Base Flow(cfs): 0          Init Stage(ft): 9
  Group: VG                                   Warn Stage(ft): 13
Comment: PS N017

Stage(ft)    Area(ac)
9            0.1934
10           0.2283
11           0.2654
12           0.3049
13           0.3467
```

```
15          0.3467
--------Class: Node-------------------------------------------------------------
   Name: N-E220     Base Flow(cfs): 0          Init Stage(ft): 10.5
  Group: VG                                   Warn Stage(ft): 15
Comment: PS N016

Stage(ft)    Area(ac)
10.5         0.2242
11           0.2387
12           0.278
13           0.3197
14           0.3637
15           0.4099
17           0.4099
--------Class: Node-------------------------------------------------------------
   Name: N-E230     Base Flow(cfs): 0          Init Stage(ft): 13
  Group: VG                                   Warn Stage(ft): 17
Comment: PS N015

Stage(ft)    Area(ac)
13           1.9419
14           2.2013
15           2.463
16           2.7271
17           2.9935
18           2.9935
--------Class: Node-------------------------------------------------------------
   Name: N-E240     Base Flow(cfs): 0          Init Stage(ft): 14
  Group: VG                                   Warn Stage(ft): 18
Comment: PS N014

Stage(ft)    Area(ac)
14           0.709
15           0.7921
16           0.8774
17           0.9651
18           1.0551
19           1.0551
--------Class: Node-------------------------------------------------------------
   Name: N-E250     Base Flow(cfs): 0          Init Stage(ft): 14
  Group: VG                                   Warn Stage(ft): 17
Comment: PS N013

Stage(ft)    Area(ac)
14           1.2572
15           1.3728
16           1.4908
17           1.611
19           1.611
--------Class: Node-------------------------------------------------------------
   Name: N-E260     Base Flow(cfs): 0          Init Stage(ft): 5.4
  Group: VG                                   Warn Stage(ft): 10
Comment:

Stage(ft)    Area(ac)
5.4          0
9.5          1
11           10
14           20
--------Class: Node-------------------------------------------------------------
   Name: N-E270     Base Flow(cfs): 0          Init Stage(ft): 7
  Group: VG                                   Warn Stage(ft): 10
Comment: PS N025

Stage(ft)    Area(ac)
7            0.334
8            0.3855
9            0.4393
10           0.4955
14           0.4955
--------Class: Cross Section---------------------------------------------------
   Name: X-G010-1  Group: BL
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.18
1                 15                0.18
1000              10                0.18
1694              7                 0.18
1700              3                 0.05
1715              3                 0.05
1721              7                 0.05
2500              10                0.18
3000              14                0.18
3001              17                0.18
--------Class: Cross Section---------------------------------------------------
   Name: X-G010-2  Group: BL
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.18
1                 15.1              0.18
327               14.6              0.18
398               13.1              0.18
```

```
576              12.6             0.18
614              12.1             0.18
671              10.5             0.18
704              8.4              0.18
728              7.4              0.18
780              6.9              0.18
881              6.4              0.18
939              5.9              0.18
994              5.4              0.18
1041             5                0.18
1045             2                0.06
1058             2                0.06
1061             5                0.06
1119             5.9              0.18
1131             6.4              0.18
1143             6.9              0.18
1146             7.5              0.18
1156             13               0.18
1157             17               0.18
--------Class: Cross Section-----------------------------------------------------
   Name: X-G020-1  Group: BL
Comment:

X-Station(ft)    Y-Elevation(ft)  Manning's N
0                14               0.03
1                12.92            0.03
171              13.17            0.03
325              13.42            0.03
326              14               0.03
--------Class: Cross Section-----------------------------------------------------
   Name: X-G030-1  Group: BL
Comment:

X-Station(ft)    Y-Elevation(ft)  Manning's N
0                17               0.18
1                11.2             0.18
433              10.7             0.18
996              10.2             0.18
1074             10               0.18
1082             7                0.06
1094             7                0.06
1104             10               0.06
1129             10.2             0.18
1134             11.2             0.18
1144             11.8             0.18
1154             12.3             0.18
1165             12.9             0.18
1241             13.9             0.18
1365             14.9             0.18
1366             17               0.18
--------Class: Cross Section-----------------------------------------------------
   Name: X-G050-1  Group: BL
Comment:

X-Station(ft)    Y-Elevation(ft)  Manning's N
0                17.7             0.15
153              17.2             0.15
179              16.6             0.15
203              15.1             0.15
216              13.5             0.15
248              11.9             0.15
262              11.4             0.15
279              10.9             0.15
307              10.4             0.15
340              9.8              0.15
362              8                0.15
367              4                0.05
376              4                0.05
381              8                0.05
490              9.8              0.15
521              10.3             0.15
554              10.9             0.15
660              11.4             0.15
793              11.9             0.15
866              12.4             0.15
1018             12.9             0.15
1019             17               0.15
--------Class: Cross Section-----------------------------------------------------
   Name: X-G050-2  Group: BL
Comment:

X-Station(ft)    Y-Elevation(ft)  Manning's N
0                17               0.15
1                13.5             0.15
15               7                0.15
60               6                0.15
63               2.7              0.045
72               2.7              0.045
75               6                0.045
90               10               0.15
200              12.5             0.15
201              17               0.15
--------Class: Cross Section-----------------------------------------------------
   Name: X-G100-1  Group: BL
```

Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 17 | 0.15 |
| 1 | 14 | 0.15 |
| 350 | 12 | 0.15 |
| 600 | 11 | 0.15 |
| 750 | 10 | 0.15 |
| 775 | 8.5 | 0.15 |
| 781 | 4.5 | 0.05 |
| 790 | 4.5 | 0.05 |
| 796 | 8.5 | 0.05 |
| 1000 | 10 | 0.15 |
| 1350 | 12 | 0.15 |
| 1600 | 13.5 | 0.15 |
| 1601 | 17 | 0.15 |

--------Class: Cross Section----------

Name: X-G170-1 Group: BL

Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 17 | 0.15 |
| 1 | 14 | 0.15 |
| 100 | 12 | 0.15 |
| 250 | 11 | 0.15 |
| 400 | 10 | 0.15 |
| 475 | 9 | 0.15 |
| 481 | 5 | 0.05 |
| 489 | 5 | 0.05 |
| 495 | 9 | 0.05 |
| 500 | 10 | 0.15 |
| 650 | 11.5 | 0.15 |
| 1300 | 12 | 0.15 |
| 1400 | 13 | 0.15 |
| 1401 | 17 | 0.15 |

--------Class: Cross Section----------

Name: X-G180-1 Group: BL

Comment: Dirt road

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 11.69 | 0.6 |
| 44 | 11.53 | 0.6 |
| 55 | 10.89 | 0.6 |
| 191 | 10.74 | 0.6 |
| 331 | 11.18 | 0.6 |

--------Class: Cross Section----------

Name: X-B010-1 Group: HH

Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 10.9 | 0.18 |
| 74 | 9.4 | 0.18 |
| 122 | 8.9 | 0.18 |
| 154 | 7.8 | 0.18 |
| 190 | 7.3 | 0.18 |
| 254 | 6.8 | 0.18 |
| 263 | 5.7 | 0.18 |
| 551 | 5.7 | 0.18 |
| 571 | 1.5 | 0.045 |
| 607 | 1.5 | 0.045 |
| 609 | 4.2 | 0.045 |
| 621 | 5.8 | 0.045 |
| 788 | 6 | 0.18 |
| 847 | 6.5 | 0.18 |
| 1021 | 7 | 0.18 |
| 1086 | 7.5 | 0.18 |
| 1124 | 8.5 | 0.18 |
| 1541 | 9 | 0.18 |
| 1600 | 11 | 0.18 |

--------Class: Cross Section----------

Name: X-B020-1 Group: HH

Comment: Upstream face bridge opening under Bees Ferry

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 3 | 8.3 | 0.03 |
| 6 | 8 | 0.03 |
| 8 | 6.3 | 0.03 |
| 11 | 4.1 | 0.03 |
| 14 | 3 | 0.03 |
| 16 | 2.3 | 0.03 |
| 21 | 1.9 | 0.03 |
| 24 | 1.5 | 0.03 |
| 30 | 3.3 | 0.03 |
| 32 | 3.9 | 0.03 |
| 35 | 6.3 | 0.03 |
| 38 | 7.8 | 0.03 |
| 40 | 8.3 | 0.03 |

--------Class: Cross Section----------

Name: X-B020-2 Group: HH

Comment: BeesFerry roadway

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 15 | 0.03 |
| 1 | 10.8 | 0.03 |

```
190               10.1              0.03
375               9.9               0.03
615               10.1              0.03
845               10.5              0.03
846               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-B050-1  Group: HH
Comment: Overbanks are defined in main channel section

X-Station(ft)     Y-Elevation(ft)   Manning's N
420               15                0.08
421               7                 0.08
449               7                 0.08
462               2                 0.055
497               2                 0.055
509               8                 0.055
534               8.8               0.08
555               8.8               0.03
556               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-B060-1  Group: HH
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14                0.03
1                 8.82              0.03
104               9.6               0.03
160               10.49             0.03
161               14                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-B070-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 13                0.08
1                 9                 0.08
570               8.8               0.08
572               8                 0.08
578               2.5               0.055
613               2.5               0.055
616               7.3               0.055
617               7.9               0.08
619               9.1               0.08
621               9.7               0.08
623               10.3              0.08
682               11                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-B070-2  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.08
1                 7                 0.08
185               6.9               0.08
376               7.4               0.08
434               7                 0.08
449               7                 0.08
462               2                 0.055
497               2                 0.055
509               8                 0.055
534               8.8               0.08
555               8.8               0.03
556               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-B080-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14                0.04
1                 10.7              0.04
69                10.2              0.04
101               9.7               0.04
121               9.2               0.04
318               8.7               0.04
336               7                 0.04
341               1.5               0.05
399               1.5               0.05
403               4.8               0.05
447               6.9               0.05
530               7.5               0.05
626               8                 0.05
670               7.5               0.05
729               7.5               0.05
730               15                0.05
--------Class: Cross Section----------------------------------------------------
   Name: X-B090-1  Group: HH
Comment: Overbanks are defined in main channel section

X-Station(ft)     Y-Elevation(ft)   Manning's N
55                12                0.04
56                8                 0.04
91                7.5               0.04
130               7                 0.04
136               2                 0.04
```

```
170               2                 0.04
175               7                 0.04
197               7.2               0.03
225               7.7               0.03
226               12                0.03
--------Class: Cross Section----------------------------------------------------------
   Name: X-B110-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14.1              0.06
43                13.6              0.06
85                13.1              0.06
96                12.6              0.06
127               10.9              0.06
137               9.3               0.06
139               4                 0.05
173               4                 0.05
175               8.8               0.05
208               10.9              0.15
378               11.4              0.15
498               11.9              0.15
553               12.4              0.15
586               12.9              0.15
587               15                0.15
--------Class: Cross Section----------------------------------------------------------
   Name: X-B110-2  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.04
1                 8                 0.04
116               8.1               0.04
242               8                 0.04
307               7                 0.04
312               3.5               0.05
346               3.5               0.05
351               8                 0.05
448               8                 0.15
487               8.3               0.15
608               8                 0.15
756               8                 0.15
757               15                0.15
--------Class: Cross Section----------------------------------------------------------
   Name: X-B120-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14                0.04
1                 10.7              0.04
69                10.2              0.04
101               9.7               0.04
121               9.2               0.04
318               8.7               0.04
336               7                 0.04
341               1.5               0.05
399               1.5               0.05
403               4.8               0.05
447               6.9               0.05
530               7.5               0.05
626               8                 0.05
670               7.5               0.05
729               7.5               0.05
730               15                0.05
--------Class: Cross Section----------------------------------------------------------
   Name: X-B130-1  Group: HH
Comment: Overbanks are defined in main channel section

X-Station(ft)     Y-Elevation(ft)   Manning's N
49                12                0.06
50                7                 0.06
59                6.5               0.06
68                5.9               0.06
77                5.8               0.06
84                5.5               0.06
94                2                 0.05
124               2                 0.05
131               4.3               0.05
132               5.5               0.05
141               5.8               0.06
150               6.1               0.06
160               6.7               0.06
184               7.2               0.06
185               12                0.06
--------Class: Cross Section----------------------------------------------------------
   Name: X-B140-1  Group: HH
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14                0.03
1                 7.67              0.03
100               7.39              0.03
110               7.61              0.03
111               14                0.03
```

--------Class: Cross Section----------
   Name: X-B150-1  Group: HH
Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 14 | 0.06 |
| 1 | 8.4 | 0.06 |
| 31 | 8.2 | 0.06 |
| 252 | 8.7 | 0.06 |
| 428 | 7.9 | 0.06 |
| 432 | 1.5 | 0.04 |
| 472 | 1.5 | 0.04 |
| 481 | 8 | 0.04 |
| 490 | 9.1 | 0.06 |
| 504 | 9.6 | 0.06 |
| 558 | 10.6 | 0.06 |
| 814 | 10.1 | 0.06 |
| 860 | 9.6 | 0.06 |
| 882 | 9.7 | 0.06 |
| 883 | 14 | 0.06 |

--------Class: Cross Section----------
   Name: X-B150-2  Group: HH
Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 14 | 0.05 |
| 1 | 7.3 | 0.05 |
| 258 | 7.8 | 0.05 |
| 291 | 7.3 | 0.05 |
| 314 | 6.8 | 0.05 |
| 320 | 6.3 | 0.05 |
| 326 | 2 | 0.045 |
| 377 | 2 | 0.045 |
| 383 | 6.3 | 0.045 |
| 405 | 6.8 | 0.06 |
| 420 | 7.3 | 0.06 |
| 504 | 7.8 | 0.06 |
| 894 | 7.3 | 0.06 |
| 895 | 14 | 0.06 |

--------Class: Cross Section----------
   Name: X-B160-1  Group: HH
Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 14 | 0.06 |
| 1 | 10 | 0.06 |
| 56 | 10.1 | 0.06 |
| 94 | 9.6 | 0.06 |
| 163 | 9.1 | 0.06 |
| 344 | 8.6 | 0.06 |
| 358 | 8.1 | 0.06 |
| 372 | 7.5 | 0.06 |
| 386 | 7 | 0.05 |
| 390 | 1.5 | 0.05 |
| 445 | 1.5 | 0.05 |
| 450 | 6.3 | 0.05 |
| 535 | 7.3 | 0.05 |
| 649 | 7.8 | 0.05 |
| 703 | 7.3 | 0.05 |
| 757 | 7 | 0.05 |
| 758 | 14 | 0.05 |

--------Class: Cross Section----------
   Name: X-B180-1  Group: HH
Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 14 | 0.1 |
| 0 | 9.5 | 0.1 |
| 140 | 9 | 0.1 |
| 160 | 1.5 | 0.075 |
| 180 | 1.5 | 0.075 |
| 187 | 7.9 | 0.075 |
| 385 | 9 | 0.18 |
| 474 | 9.5 | 0.18 |
| 535 | 10 | 0.18 |
| 551 | 10.5 | 0.18 |
| 597 | 11 | 0.18 |
| 598 | 14 | 0.18 |

--------Class: Cross Section----------
   Name: X-B190-1  Group: HH
Comment:

| X-Station(ft) | Y-Elevation(ft) | Manning's N |
|---|---|---|
| 0 | 20 | 0.1 |
| 0 | 16.1 | 0.1 |
| 139 | 15.1 | 0.1 |
| 212 | 13.1 | 0.1 |
| 248 | 12.5 | 0.1 |
| 270 | 14.2 | 0.1 |
| 292 | 15.3 | 0.1 |
| 355 | 15.8 | 0.1 |
| 386 | 14.8 | 0.1 |
| 392 | 13.7 | 0.1 |
| 401 | 10 | 0.1 |

```
410               1.5               0.075
437               1.5               0.075
452               13                0.075
479               14.6              0.18
537               16.7              0.18
621               18.2              0.18
734               17.2              0.18
765               20.4              0.18
--------Class: Cross Section----------------------------------------------------
   Name: X-B200-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
79                17.5              0.1
156               17                0.1
201               16.5              0.1
262               15.5              0.1
289               15                0.1
312               1.5               0.075
337               1.5               0.075
347               8.8               0.075
354               12.6              0.04
362               13.4              0.04
380               14.5              0.04
729               15                0.04
730               17                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-B210-1  Group: HH
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.1
0                 12.6              0.1
18                11.1              0.1
20                10.5              0.1
33                1.5               0.075
65                1.5               0.075
79                13.1              0.075
82                13.8              0.04
85                14.4              0.04
154               15                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-F010-1  Group: MC
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 12.5              0.015
0                 7                 0.015
1                 7                 0.015
1                 10                0.015
1.42              10                0.015
1.42              12.5              0.015
--------Class: Cross Section----------------------------------------------------
   Name: X-A020-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 12                0.08
88                11.5              0.08
129               11                0.08
251               10.5              0.08
312               10                0.08
346               9.5               0.08
379               9                 0.08
384               8.5               0.08
390               8                 0.08
574               7.5               0.08
676               8                 0.08
745               7.5               0.08
780               6.3               0.08
798               4.6               0.08
817               4.1               0.08
836               3.6               0.08
1000              3                 0.08
1005              -4.2              0.05
1020              -4.2              0.05
1025              3                 0.05
1379              3.1               0.08
1432              3.6               0.08
1580              4.1               0.08
1637              4.6               0.08
2057              5.1               0.08
2112              7.8               0.08
--------Class: Cross Section----------------------------------------------------
   Name: X-A030-1  Group: RR
Comment: Upstream face bridge opening under SC 61

X-Station(ft)     Y-Elevation(ft)   Manning's N
3                 6.95              0.03
3.1               1.35              0.03
8                 -0.05             0.03
16                -2.25             0.03
21.7              -3.45             0.03
24                -3.75             0.03
```

```
32                -4.2              0.03
40                -3.95             0.03
43.8              -3.45             0.03
48                -2.75             0.03
56                -2.75             0.03
64                -1.95             0.03
65.9              -1.45             0.03
69                1.35              0.03
72                2.55              0.03
80                5.25              0.03
84                6.95              0.03
--------Class: Cross Section-----------------------------------------------------
   Name: X-A030-2  Group: RR
Comment: SC 61 Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 12                0.03
1                 8                 0.03
160               7.7               0.03
325               6.8               0.03
475               7.2               0.03
595               8.2               0.03
745               8.8               0.03
800               9.5               0.03
890               9.5               0.03
960               6.9               0.03
1110              6.6               0.03
1300              7.4               0.03
1450              7.8               0.03
1451              12                0.03
--------Class: Cross Section-----------------------------------------------------
   Name: X-A040-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 10.8              0.08
168               8.8               0.08
188               7.7               0.08
206               6.5               0.08
223               6                 0.08
281               5.5               0.08
368               5                 0.08
387               4                 0.08
584               3                 0.08
587               -1                0.05
626               -1                0.05
629               3                 0.05
833               3.5               0.08
858               6.3               0.08
885               8.5               0.08
903               10.7              0.08
966               11.3              0.08
1034              11.8              0.08
--------Class: Cross Section-----------------------------------------------------
   Name: X-A040-2  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 13.1              0.08
144               11.5              0.08
262               9.5               0.08
280               9                 0.08
390               7.4               0.08
452               6.9               0.08
462               5.7               0.08
715               5.1               0.08
739               4.6               0.08
741               4                 0.08
1000              3                 0.08
1005              -4                0.05
1040              -4                0.05
1045              3                 0.05
1282              3.1               0.08
1329              4.7               0.08
1410              5.2               0.08
1425              5.7               0.08
1450              6.3               0.08
1727              6.8               0.08
1792              6.2               0.08
1845              6.7               0.08
1896              7.3               0.08
1920              7.8               0.08
2041              9.3               0.08
2112              10.8              0.08
2271              12.3              0.08
2442              13.9              0.08
--------Class: Cross Section-----------------------------------------------------
   Name: X-A050-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 10.8              0.08
30                8.2               0.08
42                7.6               0.08
```

```
94                6.6               0.08
128               2.9               0.08
199               2.4               0.08
250               2                 0.08
255               1                 0.05
270               1                 0.05
275               2                 0.05
353               1.9               0.08
416               2.5               0.08
590               3                 0.08
646               4.5               0.08
714               5                 0.08
827               7.1               0.08
933               8.6               0.08
1011              9.1               0.08
1123              9.6               0.08
1234              10.1              0.08
--------Class: Cross Section----------------------------------------------------
   Name: X-A060-1  Group: RR
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 11.58             0.03
96                10.71             0.03
191               9.66              0.03
312               7.19              0.03
400               7.63              0.03
401               12                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-A090-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 9.9               0.15
79                8.9               0.15
115               7.9               0.15
147               6.8               0.15
155               5.3               0.15
249               5                 0.15
252               3.5               0.05
260               3.5               0.05
263               5                 0.05
337               5.2               0.15
453               7.2               0.15
473               10.2              0.15
507               10.7              0.15
571               12.8              0.15
750               13.4              0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-A110-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14                0.15
109               13.5              0.15
222               7.1               0.15
342               6.6               0.15
456               6.1               0.15
484               5.6               0.15
647               5                 0.15
651               4.5               0.15
655               4.2               0.15
689               4                 0.15
693               0                 0.05
709               0                 0.05
714               4                 0.05
736               4.2               0.15
767               4.3               0.15
1041              4.8               0.15
1146              5.3               0.15
1152              5.8               0.15
1164              6.9               0.15
1222              7.4               0.15
1320              7.9               0.15
1518              7.4               0.15
1589              8.9               0.15
1627              10.4              0.15
1705              11                0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-A110-2  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 10.9              0.15
56                9.3               0.15
183               8.8               0.15
219               7.3               0.15
350               6.8               0.15
408               5.2               0.15
440               4.7               0.15
496               3.1               0.08
732               3                 0.08
736               -1                0.05
754               -1                0.05
```

```
758               3                 0.05
1009              3.1               0.08
1345              5.2               0.15
1398              6.7               0.15
1510              7.2               0.15
1567              8.7               0.15
1661              9.2               0.15
1689              9.7               0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-A130-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 11                0.1
6                 8.3               0.1
9                 7                 0.1
12                6.4               0.1
17                6                 0.1
20                3                 0.06
24                3                 0.06
27                5.9               0.06
32                6.4               0.18
36                6.9               0.18
39                7.5               0.18
45                8.7               0.18
56                10.4              0.18
72                11                0.18
--------Class: Cross Section----------------------------------------------------
   Name: X-A140-1  Group: RR
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 11                0.18
38                8.5               0.18
82                7.5               0.18
637               6.9               0.18
644               6.4               0.18
650               5.8               0.18
655               1                 0.06
669               1                 0.06
675               5.8               0.06
723               6                 0.1
726               6.4               0.1
742               5.9               0.1
748               5.4               0.1
759               5.9               0.1
764               6.4               0.1
767               7                 0.1
769               7.9               0.1
777               11                0.1
--------Class: Cross Section----------------------------------------------------
   Name: X-C020-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.15
1                 10.6              0.15
4                 10                0.15
268               9.3               0.15
318               10.9              0.15
377               11.4              0.15
413               9.8               0.15
418               9.3               0.15
426               5.9               0.06
430               3.2               0.06
438               3.2               0.06
442               5.4               0.06
450               8.4               0.06
494               9                 0.04
527               13.4              0.04
544               14                0.04
573               12.9              0.04
614               12.4              0.04
630               11.4              0.04
701               10.8              0.04
716               10.3              0.04
817               9.8               0.04
1011              9.3               0.04
1012              15                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-C020-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 12.7              0.035
21                10.3              0.035
64                10.1              0.035
98                10.2              0.035
341               10.5              0.035
380               11                0.035
410               5.8               0.035
416               3                 0.035
422               3                 0.035
428               5.8               0.035
```

```
439               10.3              0.035
442               10.9              0.03
521               12.4              0.03
572               12.9              0.03
935               13.4              0.03
955               14.5              0.03
1007              15.1              0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C030-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.15
1                 11.2              0.15
10                10.7              0.15
18                9.5               0.15
28                7.8               0.15
34                6                 0.06
40                3.4               0.06
48                3.4               0.06
54                5                 0.06
55                5.9               0.06
57                7.3               0.06
59                8                 0.06
103               8.7               0.04
124               8.2               0.04
269               7.7               0.04
283               8.8               0.04
313               9.3               0.04
342               8.8               0.04
408               8.8               0.04
544               9.3               0.04
577               12.7              0.04
600               13.8              0.04
601               15                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-C040-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.06
17                13                0.06
25                12                0.06
29                11.1              0.06
33                9.3               0.06
36                7.7               0.045
39                5.6               0.045
44                3.6               0.045
56                3.6               0.045
57                5.6               0.045
71                9.3               0.045
77                9.8               0.03
85                10.4              0.03
113               10.9              0.03
168               11.4              0.03
176               11.9              0.03
187               12.5              0.03
201               13                0.03
211               11.1              0.03
314               10.6              0.03
406               10.1              0.03
475               9.6               0.03
535               9.6               0.03
536               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C050-1  Group: SM1
Comment: Left portion of road that drains towards Wolk Dr

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 10.15             0.03
100               9.56              0.03
241               8.9               0.03
242               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C050-2  Group: SM1
Comment: Right portion of road that drains to golf course

X-Station(ft)     Y-Elevation(ft)   Manning's N
240               15                0.03
241               8.9               0.03
344               9.15              0.03
442               9.41              0.03
443               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C070-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.08
1                 11                0.08
86                10.5              0.08
169               9                 0.08
171               8.7               0.04
```

```
187               8.5               0.04
200               3.6               0.04
206               3.6               0.04
219               8.5               0.04
249               10.5              0.025
276               11                0.025
281               11.6              0.025
292               12.1              0.025
297               11.6              0.025
346               11                0.025
439               10.5              0.025
557               12.5              0.025
622               13                0.025
623               15                0.025
--------Class: Cross Section----------------------------------------------------
   Name: X-C070-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.04
1                 12.9              0.04
40                11.3              0.04
158               10.8              0.04
177               10.2              0.04
196               9.7               0.04
214               9.2               0.04
222               9                 0.04
230               3.6               0.04
236               3.6               0.04
247               9                 0.04
257               9.1               0.025
268               9.4               0.025
298               9.4               0.025
314               10.1              0.025
335               10.6              0.025
356               11.2              0.025
369               12.3              0.025
384               12.8              0.025
439               13.3              0.025
472               15                0.025
--------Class: Cross Section----------------------------------------------------
   Name: X-C080-1  Group: SM1
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 11.39             0.03
158               11.96             0.03
313               12.22             0.03
314               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C090-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.04
1                 11.5              0.04
149               11.5              0.04
716               10.8              0.04
719               10.1              0.04
720               9.4               0.04
728               4                 0.04
745               4                 0.04
751               10                0.04
752               10.6              0.08
908               11.1              0.08
1024              11.6              0.08
1061              12.1              0.08
1086              12.7              0.08
1090              15                0.08
--------Class: Cross Section----------------------------------------------------
   Name: X-C090-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.18
1                 12.5              0.18
55                12.2              0.18
104               12.7              0.18
367               13.2              0.18
398               12.7              0.18
406               12.1              0.18
414               11.6              0.18
422               11                0.18
435               6.5               0.18
529               6.5               0.06
533               4                 0.06
537               4                 0.06
541               6.5               0.06
625               6.5               0.18
656               7                 0.18
658               7.9               0.18
674               10.5              0.18
685               11.1              0.18
```

```
718               11.6              0.18
749               12.1              0.18
779               12.6              0.18
780               15                0.18
--------Class: Cross Section----------------------------------------------------
   Name: X-C100-1  Group: SM1
Comment: Roadway over BeesFerry

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 13.73             0.03
162               12.82             0.03
287               12.35             0.03
288               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C120-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 18.6              0.05
76                17                0.05
235               16.5              0.05
329               15                0.05
375               13.5              0.05
540               13                0.05
550               11.8              0.05
565               7.8               0.04
573               3.5               0.04
597               3.5               0.04
605               7.8               0.04
614               10.1              0.04
622               12.7              0.05
627               13.2              0.05
636               13.7              0.05
729               14.3              0.05
730               18                0.05
--------Class: Cross Section----------------------------------------------------
   Name: X-C120-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.04
1                 14.5              0.04
80                13                0.04
92                10.2              0.04
94                9                 0.04
102               7.5               0.05
107               3.5               0.05
117               3.5               0.05
122               7.5               0.05
131               9                 0.05
138               9.9               0.05
182               10.4              0.05
204               12                0.05
283               12.6              0.05
343               13.1              0.05
417               14.7              0.05
--------Class: Cross Section----------------------------------------------------
   Name: X-C130-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 16.6              0.07
39                15.6              0.07
122               15.1              0.07
215               14.6              0.07
232               14                0.07
266               13                0.07
271               12.5              0.07
291               9.7               0.07
298               7.5               0.045
306               3.5               0.045
340               3.5               0.045
348               7.5               0.045
352               9.1               0.045
366               12.8              0.045
389               13.4              0.04
407               12.3              0.04
437               11.8              0.04
455               12.8              0.04
482               13.9              0.04
496               14.9              0.04
561               17                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-C130-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17.9              0.07
78                17.3              0.07
152               15.8              0.07
225               13.2              0.07
342               11.1              0.07
459               10.6              0.07
```

```
523               9.6               0.07
528               9.1               0.07
558               7.8               0.045
566               3.5               0.045
600               3.5               0.045
608               7.8               0.045
631               9.1               0.045
647               11.7              0.04
668               13.2              0.04
700               14.3              0.04
740               14.8              0.04
807               14.3              0.04
903               13.8              0.04
1105              14.3              0.04
1147              14.8              0.04
1210              15.3              0.04
1211              18                0.04
--------Class: Cross Section----------------------------------------------------
   Name: X-C150-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 16.7              0.04
12                15.6              0.04
62                15                0.04
135               15                0.04
180               13.5              0.04
213               11.4              0.04
228               10.3              0.04
234               9.8               0.04
236               8.3               0.04
244               3.5               0.04
316               3.5               0.04
324               8.3               0.04
336               12.4              0.04
394               13                0.07
526               13.5              0.07
610               14.5              0.07
741               15                0.07
767               15.6              0.07
840               16.1              0.07
--------Class: Cross Section----------------------------------------------------
   Name: X-C150-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17.2              0.04
29                16.7              0.04
90                14.7              0.04
184               12.6              0.04
251               11.6              0.04
283               11.1              0.04
292               10.6              0.04
296               10.1              0.04
311               9.5               0.04
315               8.3               0.04
323               3.5               0.04
354               3.5               0.04
362               8.3               0.04
366               9.5               0.04
404               12.2              0.07
412               12.7              0.07
490               13.2              0.07
600               13.7              0.07
601               17                0.07
--------Class: Cross Section----------------------------------------------------
   Name: X-C160-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 16                0.06
1                 14.7              0.06
97                14.2              0.06
142               13.6              0.06
316               13.1              0.06
352               13.6              0.06
410               13.1              0.06
423               12.6              0.06
430               10.1              0.06
439               8.5               0.04
447               3.5               0.04
486               3.5               0.04
494               8.5               0.04
502               10.6              0.04
505               12.4              0.06
515               14.9              0.06
528               15.5              0.06
543               16                0.06
609               16.5              0.06
--------Class: Cross Section----------------------------------------------------
   Name: X-C170-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
```

```
0                15                0.03
1                12.47             0.03
100              11.88             0.03
200              12.41             0.03
201              15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C180-1  Group: SM1
Comment:

X-Station(ft)    Y-Elevation(ft)   Manning's N
0                18                0.08
1                15                0.08
92               15                0.08
103              15.5              0.08
114              16                0.08
205              16.5              0.08
219              16                0.08
233              15.5              0.08
251              15                0.08
257              10.3              0.05
260              9                 0.05
270              4                 0.05
274              4                 0.05
284              9                 0.05
298              14.7              0.05
324              15.2              0.08
454              14.7              0.08
570              15.2              0.08
604              15.7              0.08
605              19                0.08
--------Class: Cross Section----------------------------------------------------
   Name: X-C200-1  Group: SM1
Comment:

X-Station(ft)    Y-Elevation(ft)   Manning's N
0                17                0.18
1                11                0.18
41               10.9              0.18
53               11.4              0.18
59               12                0.18
74               13.1              0.18
81               14.2              0.18
121              14.8              0.18
142              11.3              0.18
154              5.9               0.07
157              3.5               0.07
168              3.5               0.07
171              5.2               0.07
189              10.7              0.07
201              11.4              0.05
240              11.9              0.05
299              12.4              0.05
361              14.5              0.05
383              15                0.05
412              16.6              0.05
440              17.1              0.05
650              17.6              0.05
--------Class: Cross Section----------------------------------------------------
   Name: X-C200-2  Group: SM1
Comment:

X-Station(ft)    Y-Elevation(ft)   Manning's N
0                18                0.03
1                15                0.03
51               14.5              0.03
85               14.5              0.03
139              15                0.03
148              13.2              0.035
163              3                 0.035
173              3                 0.035
201              12.5              0.035
204              13                0.03
219              13.5              0.03
283              14.6              0.03
403              16.6              0.03
688              18                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C220-1  Group: SM1
Comment:

X-Station(ft)    Y-Elevation(ft)   Manning's N
0                16                0.05
1                11                0.05
47               10.5              0.05
64               10                0.05
167              9.5               0.05
190              10                0.05
229              10.5              0.05
297              8.9               0.05
308              5.9               0.045
313              4.5               0.045
335              4.5               0.045
340              5.1               0.045
348              8.8               0.045
```

```
416               10.4              0.06
486               10.9              0.06
536               11.4              0.06
600               11.5              0.06
673               11                0.06
716               11.5              0.06
781               12                0.06
782               16                0.06
--------Class: Cross Section----------------------------------------------------
   Name: X-C220-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.03
1                 10.9              0.03
72                9.3               0.03
105               8.8               0.03
117               6                 0.03
123               4                 0.03
134               4                 0.03
140               5.4               0.03
142               6.5               0.03
151               8.5               0.03
241               9.1               0.03
280               9.6               0.03
314               10.6              0.03
385               11.2              0.03
414               12.7              0.03
426               13.3              0.03
439               14.9              0.03
453               15.4              0.03
517               17                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C240-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0
1                 11.02             0
100               10.91             0
200               11.29             0
201               15                0
--------Class: Cross Section----------------------------------------------------
   Name: X-C250-1  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 16                0.03
1                 12                0.03
46                12                0.03
82                11.5              0.03
133               11                0.03
137               10                0.03
143               7                 0.03
151               7                 0.03
157               9.4               0.03
159               10.4              0.03
167               11.2              0.03
192               11.7              0.03
362               12.3              0.03
426               13.8              0.03
489               14.3              0.03
538               13.3              0.03
564               12.2              0.03
598               11.7              0.03
656               13.2              0.03
714               14.3              0.03
818               14.8              0.03
819               16                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-C250-2  Group: SM1
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 14.9              0.15
58                14                0.15
115               13                0.15
139               13                0.15
211               13.4              0.15
269               13                0.15
327               12                0.15
339               6                 0.04
349               6                 0.04
361               12                0.04
419               13                0.15
477               14                0.15
727               14                0.15
861               13.8              0.15
918               14                0.15
1011              15.2              0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-C260-1  Group: SM1
Comment: Ditch alongside BeesFerry
```

```
X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.06
1                 11.9              0.06
3                 10.1              0.06
5                 8                 0.06
17                8                 0.06
21                9.1               0.06
23                10.4              0.06
25                11.1              0.08
46                12.7              0.08
110               13.2              0.08
172               13.8              0.08
173               15                0.08
--------Class: Cross Section----------------------------------------------------
   Name: X-D010-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 16                0.15
1                 10.9              0.15
60                9.3               0.15
192               8.8               0.15
202               8.3               0.15
212               7.8               0.15
230               7.3               0.15
332               7                 0.15
338               3                 0.06
350               3                 0.06
354               7                 0.06
375               7.3               0.12
417               7.8               0.12
452               8.3               0.12
486               8.8               0.12
632               9.3               0.12
633               15                0.12
--------Class: Cross Section----------------------------------------------------
   Name: X-D020-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.15
15                13                0.15
45                11                0.15
70                9                 0.15
76                6.5               0.15
81                3.5               0.055
94                3.5               0.055
99                6.5               0.055
105               7                 0.15
140               8                 0.15
250               9                 0.15
251               15                0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-D040-1  Group: SM2
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 12                0.03
1                 9.34              0.03
100               9.11              0.03
200               9.45              0.03
201               12                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-D070-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 21                0.03
1                 17                0.03
107               17                0.03
305               16.5              0.03
321               16                0.03
353               15.5              0.03
405               14.5              0.03
418               13.5              0.03
423               13.5              0.03
436               14.5              0.03
538               15                0.03
543               15.6              0.03
563               17.2              0.03
584               17.7              0.03
608               18.2              0.03
652               19.2              0.03
675               20.9              0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-D070-2  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 18                0.03
1                 16.8              0.03
42                16.3              0.03
53                15.8              0.03
65                15.2              0.03
```

```
96                14.7              0.03
104               14.2              0.03
112               13.7              0.03
120               13.2              0.03
124               12.6              0.03
127               10                0.03
133               10                0.03
137               12.5              0.03
143               13.9              0.03
149               15.2              0.03
157               16.4              0.03
187               17                0.03
197               15.9              0.03
246               15.3              0.03
252               16.7              0.03
256               17.2              0.03
264               17.7              0.03
275               18.3              0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-D090-1  Group: SM2
Comment: Roadway

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 10.71             0.03
100               10.49             0.03
200               10.62             0.03
201               15                0.03
--------Class: Cross Section----------------------------------------------------
   Name: X-D100-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.08
0                 11                0.08
140               10                0.08
200               9                 0.08
205               7                 0.08
208               5.5               0.05
236               5.5               0.05
239               6.5               0.05
243               7                 0.05
260               8                 0.12
300               9                 0.12
380               10                0.12
381               15                0.12
--------Class: Cross Section----------------------------------------------------
   Name: X-D130    Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 9.3               0.03
156               9.1               0.03
236               9                 0.12
242               4                 0.06
258               4                 0.06
264               9                 0.06
275               9.4               0.12
287               10                0.12
299               10.5              0.12
310               11.1              0.12
322               12.7              0.12
691               13.2              0.12
692               15                0.12
--------Class: Cross Section----------------------------------------------------
   Name: X-D130-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 8.9               0.03
141               8.3               0.03
300               8.5               0.03
382               8.8               0.12
392               8.3               0.12
403               3.5               0.06
420               3.5               0.06
429               8.6               0.06
432               8.9               0.12
552               9.5               0.12
574               10                0.12
600               10.5              0.12
757               11                0.12
758               15                0.12
--------Class: Cross Section----------------------------------------------------
   Name: X-D130-2  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 15                0.03
1                 8.5               0.03
58                8.3               0.03
218               8.8               0.03
```

```
330               9.3               0.03
355               9.8               0.03
419               10                0.12
431               8.8               0.12
444               4                 0.06
460               4                 0.06
470               8.2               0.06
473               8.8               0.06
564               10                0.12
631               11                0.12
649               12.6              0.12
675               13.2              0.12
678               13.8              0.12
688               15                0.12
--------Class: Cross Section----------------------------------------------------
   Name: X-D140-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.05
1                 11                0.05
300               11                0.05
348               9                 0.05
357               5                 0.04
367               5                 0.04
377               10                0.04
500               10                0.15
501               17                0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-D150-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.07
4                 13.8              0.07
8                 13.1              0.07
10                12.6              0.07
12                12                0.07
22                11                0.07
32                6.5               0.06
38                6.5               0.06
52                10.9              0.06
99                11.5              0.07
123               12                0.07
198               12.5              0.07
363               13                0.07
364               17                0.07
--------Class: Cross Section----------------------------------------------------
   Name: X-D150-2  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.05
1                 11                0.05
400               11                0.05
450               9                 0.05
457               5.5               0.04
467               5.5               0.04
474               9.5               0.04
600               10                0.15
601               17                0.15
--------Class: Cross Section----------------------------------------------------
   Name: X-D180-1  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
647               16.3              0.04
676               15.3              0.04
680               12.8              0.04
684               10                0.045
687               10                0.045
690               11.3              0.045
692               12.2              0.06
740               13                0.06
747               13.6              0.06
755               14.1              0.06
804               14.6              0.06
818               14.1              0.06
828               13.6              0.06
834               13.1              0.06
945               12.9              0.06
1029              13.4              0.06
1152              12.9              0.06
--------Class: Cross Section----------------------------------------------------
   Name: X-D180-2  Group: SM2
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.15
1                 13.5              0.15
88                12                0.15
129               12.5              0.15
144               12                0.15
160               11.5              0.15
```

```
210               10.9              0.15
232               9.9               0.15
295               9.9               0.15
297               7                 0.05
300               7                 0.05
302               9.7               0.05
345               9.7               0.05
395               9.9               0.05
439               10.9              0.05
468               11.5              0.05
487               12                0.05
677               13                0.05
698               13.5              0.05
840               14                0.05
841               17                0.05
--------Class: Cross Section-------------------------------------------------------
   Name: X-E010-1  Group: VG
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.15
1                 11.4              0.15
245               11.2              0.15
446               10.7              0.15
734               10.2              0.15
810               9.7               0.15
835               9.2               0.15
844               9                 0.15
848               7                 0.15
850               5                 0.05
859               5                 0.05
862               7.6               0.05
864               9                 0.15
910               9.4               0.15
972               9.9               0.15
1027              10.4              0.15
1135              10.9              0.15
1178              11.4              0.15
1200              11.9              0.15
1255              12.9              0.15
1295              14                0.15
1296              17                0.15
--------Class: Cross Section-------------------------------------------------------
   Name: X-E260-1  Group: VG
Comment:

X-Station(ft)     Y-Elevation(ft)   Manning's N
0                 17                0.18
1                 10.9              0.18
206               10.3              0.18
291               10                0.18
680               9.5               0.18
708               9.3               0.18
712               7.1               0.18
716               5.3               0.06
721               5.3               0.06
729               7.6               0.06
735               9                 0.18
764               9.4               0.18
791               9.9               0.18
835               10.9              0.18
907               11.9              0.18
958               12.9              0.18
992               14                0.18
993               17                0.18
--------Class: Basin-----------------------------------------------------------
Basin: B-G020     Node: N-G020     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 182.8       Concentration Time(min): 210
            Curve #: 77                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-G050     Node: N-G050     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 76.1        Concentration Time(min): 180
            Curve #: 77                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-G060     Node: N-G060     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
```

```
Rainfall Amount(in): 4.6
           Area(ac): 6.22        Concentration Time(min): 23
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-I1

--------Class: Basin-------------------------------------------------------------
Basin: B-G070     Node: N-G070     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 2.37        Concentration Time(min): 16
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-H1

--------Class: Basin-------------------------------------------------------------
Basin: B-G080     Node: N-G080     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.29        Concentration Time(min): 14
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-G1

--------Class: Basin-------------------------------------------------------------
Basin: B-G090     Node: N-G090     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.38        Concentration Time(min): 19
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-F1

--------Class: Basin-------------------------------------------------------------
Basin: B-G110     Node: N-G110     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.36        Concentration Time(min): 13
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-D1

--------Class: Basin-------------------------------------------------------------
Basin: B-G120     Node: N-G120     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.88        Concentration Time(min): 24
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-C1

--------Class: Basin-------------------------------------------------------------
Basin: B-G130     Node: N-G130     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 11.79       Concentration Time(min): 28
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-B1

--------Class: Basin-------------------------------------------------------------
Basin: B-G140     Node: N-G140     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4.86        Concentration Time(min): 27
            Curve #: 81                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-A1

--------Class: Basin-------------------------------------------------------------
Basin: B-G150     Node: N-G150     Status: On Site    Type: SCS Unit Hydr
Group: BL
```

```
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 37          Concentration Time(min): 123
            Curve #: 79                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-OFF

--------Class: Basin-----------------------------------------------------------
Basin: B-G160     Node: N-G160     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 3.69        Concentration Time(min): 18
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-E1

--------Class: Basin-----------------------------------------------------------
Basin: B-G180     Node: N-G180     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 317.9       Concentration Time(min): 250
            Curve #: 74                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-G181     Node: N-G180     Status: On Site    Type: SCS Unit Hydr
Group: BL
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 202.5       Concentration Time(min): 220
            Curve #: 72                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B020     Node: N-B020     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 93.4        Concentration Time(min): 138
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B040     Node: N-B040     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 9.1         Concentration Time(min): 27
            Curve #: 88                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B060     Node: N-B060     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 107.6       Concentration Time(min): 195
            Curve #: 76                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B100     Node: N-B100     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 26.3        Concentration Time(min): 87
            Curve #: 78                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
```

```
Basin: B-B140     Node: N-B140     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 90.2         Concentration Time(min): 204
            Curve #: 79                   Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B160     Node: N-B160     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 37.9         Concentration Time(min): 76
            Curve #: 83                   Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B170     Node: N-B170     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 16.6         Concentration Time(min): 31
            Curve #: 87                   Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-B230     Node: N-B230     Status: On Site    Type: SCS Unit Hydr
Group: HH
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 25.2         Concentration Time(min): 32
            Curve #: 89                   Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-F010     Node: N-F010     Status: On Site    Type: SCS Unit Hydr
Group: MC
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 43.19        Concentration Time(min): 49
            Curve #: 86                   Time Shift(hrs): 0
            DCIA(%): 0

          PS B-BB1

--------Class: Basin-----------------------------------------------------------
Basin: B-F030     Node: N-F030     Status: On Site    Type: SCS Unit Hydr
Group: MC
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 16.46        Concentration Time(min): 30
            Curve #: 86                   Time Shift(hrs): 0
            DCIA(%): 0

          PS BAB4

--------Class: Basin-----------------------------------------------------------
Basin: B-F040     Node: N-F040     Status: On Site    Type: SCS Unit Hydr
Group: MC
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4.84         Concentration Time(min): 13
            Curve #: 86                   Time Shift(hrs): 0
            DCIA(%): 0

          PS B-AB3

--------Class: Basin-----------------------------------------------------------
Basin: B-F060     Node: N-F060     Status: On Site    Type: SCS Unit Hydr
Group: MC
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII           Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 24.34        Concentration Time(min): 20
            Curve #: 72                   Time Shift(hrs): 0
            DCIA(%): 0

          PS B-AB2
```

```
--------Class: Basin----------------------------------------------------------
Basin: B-F080     Node: N-F080     Status: On Site    Type: SCS Unit Hydr
Group: MC
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.55        Concentration Time(min): 38
            Curve #: 73                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B-AB1A

--------Class: Basin----------------------------------------------------------
Basin: B-A030     Node: N-A030     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 536.7       Concentration Time(min): 300
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A040     Node: N-A040     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 402.6       Concentration Time(min): 275
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A041     Node: N-A040     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 388.4       Concentration Time(min): 270
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A060     Node: N-A060     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 62.8        Concentration Time(min): 133
            Curve #: 76                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A100     Node: N-A100     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 52          Concentration Time(min): 129
            Curve #: 82                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A120     Node: N-A120     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 99.3        Concentration Time(min): 135
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin----------------------------------------------------------
Basin: B-A140     Node: N-A140     Status: On Site    Type: SCS Unit Hydr
Group: RR
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 348.5       Concentration Time(min): 260
            Curve #: 79                  Time Shift(hrs): 0
            DCIA(%): 0
```

```
--------Class: Basin-----------------------------------------------------------
Basin: B-C010     Node: N-C010     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 27.6        Concentration Time(min): 52
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C050     Node: N-C050     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.6         Concentration Time(min): 51
            Curve #: 80                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C080     Node: N-C080     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 84.5        Concentration Time(min): 116
            Curve #: 81                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C120     Node: N-C120     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 60.7        Concentration Time(min): 100
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C130     Node: N-C130     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 40.6        Concentration Time(min): 40
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C140     Node: N-C140     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 12.2        Concentration Time(min): 37
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C150     Node: N-C150     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 36.1        Concentration Time(min): 88
            Curve #: 78                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C170     Node: N-C170     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 101.2       Concentration Time(min): 61
```

```
           Curve #: 82                 Time Shift(hrs): 0
           DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C190     Node: N-C190     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 23.5        Concentration Time(min): 48
            Curve #: 82                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C230     Node: N-C230     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 48          Concentration Time(min): 28
            Curve #: 84                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-C270     Node: N-C270     Status: On Site    Type: SCS Unit Hydr
Group: SM1
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 35.7        Concentration Time(min): 81
            Curve #: 77                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D010     Node: N-D010     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 23.1        Concentration Time(min): 103
            Curve #: 76                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D020     Node: N-D020     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 30.5        Concentration Time(min): 74
            Curve #: 81                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D030     Node: N-D030     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 56.5        Concentration Time(min): 84
            Curve #: 86                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D050     Node: N-D050     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 22.6        Concentration Time(min): 33
            Curve #: 86                 Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D080     Node: N-D080     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
```

```
Rainfall Amount(in): 4.6
           Area(ac): 6.8         Concentration Time(min): 38
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D110     Node: N-D110     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 29.8        Concentration Time(min): 43
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D130     Node: N-D130     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 15.6        Concentration Time(min): 71
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D131     Node: N-D130     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 24.9        Concentration Time(min): 96
            Curve #: 63                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D132     Node: N-D130     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 46.3        Concentration Time(min): 93
            Curve #: 80                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D140     Node: N-D140     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 19.8        Concentration Time(min): 62
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D160     Node: N-D160     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 76.4        Concentration Time(min): 42
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D190     Node: N-D190     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                   Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.7         Concentration Time(min): 23
            Curve #: 86                  Time Shift(hrs): 0
            DCIA(%): 0


--------Class: Basin-----------------------------------------------------------
Basin: B-D210     Node: N-D210     Status: On Site    Type: SCS Unit Hydr
Group: SM2
```

```
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 18.53       Concentration Time(min): 54
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B010A

--------Class: Basin-------------------------------------------------------------
Basin: B-D220     Node: N-D220     Status: On Site    Type: SCS Unit Hydr
Group: SM2
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 11.75       Concentration Time(min): 45
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B010

--------Class: Basin-------------------------------------------------------------
Basin: B-E010     Node: N-E010     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 223.4       Concentration Time(min): 225
            Curve #: 72                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-------------------------------------------------------------
Basin: B-E020     Node: N-E020     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.75        Concentration Time(min): 18
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B024

--------Class: Basin-------------------------------------------------------------
Basin: B-E030     Node: N-E030     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 6.47        Concentration Time(min): 24
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B023

--------Class: Basin-------------------------------------------------------------
Basin: B-E040     Node: N-E040     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 20.89       Concentration Time(min): 29
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B022

--------Class: Basin-------------------------------------------------------------
Basin: B-E050     Node: N-E050     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 14.49       Concentration Time(min): 20
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B021

--------Class: Basin-------------------------------------------------------------
Basin: B-E060     Node: N-E060     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4.25        Concentration Time(min): 13
            Curve #: 85                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B020

--------Class: Basin-------------------------------------------------------------
```

```
Basin: B-E070     Node: N-E070     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.64        Concentration Time(min): 17
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B019

--------Class: Basin-------------------------------------------------------------
Basin: B-E080     Node: N-E080     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.61        Concentration Time(min): 16
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B018

--------Class: Basin-------------------------------------------------------------
Basin: B-E090     Node: N-E090     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 14.98       Concentration Time(min): 49
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B012

--------Class: Basin-------------------------------------------------------------
Basin: B-E100     Node: N-E100     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 18.64       Concentration Time(min): 53
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B011

--------Class: Basin-------------------------------------------------------------
Basin: B-E110     Node: N-E110     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 13.04       Concentration Time(min): 45
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B005A

--------Class: Basin-------------------------------------------------------------
Basin: B-E120     Node: N-E120     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4.37        Concentration Time(min): 25
            Curve #: 82                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B008

--------Class: Basin-------------------------------------------------------------
Basin: B-E130     Node: N-E130     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 3.57        Concentration Time(min): 20
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B007

--------Class: Basin-------------------------------------------------------------
Basin: B-E140     Node: N-E140     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.37        Concentration Time(min): 25
            Curve #: 81                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B006
```

```
--------Class: Basin-----------------------------------------------------------
Basin: B-E150     Node: N-E150     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 2.97        Concentration Time(min): 23
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B002

--------Class: Basin-----------------------------------------------------------
Basin: B-E160     Node: N-E160     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 3.97        Concentration Time(min): 29
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B001

--------Class: Basin-----------------------------------------------------------
Basin: B-E170     Node: N-E170     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 9.21        Concentration Time(min): 38
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B005

--------Class: Basin-----------------------------------------------------------
Basin: B-E180     Node: N-E180     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 3.2         Concentration Time(min): 26
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B004

--------Class: Basin-----------------------------------------------------------
Basin: B-E190     Node: N-E190     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.1         Concentration Time(min): 30
            Curve #: 83                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B003

--------Class: Basin-----------------------------------------------------------
Basin: B-E200     Node: N-E200     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 6.45        Concentration Time(min): 15
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B017A

--------Class: Basin-----------------------------------------------------------
Basin: B-E210     Node: N-E210     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 2.15        Concentration Time(min): 10
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B017

--------Class: Basin-----------------------------------------------------------
Basin: B-E220     Node: N-E220     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 6.73        Concentration Time(min): 15
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0
```

```
          PS B016

--------Class: Basin-----------------------------------------------------------
Basin: B-E230     Node: N-E230     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 20.1        Concentration Time(min): 30
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B015

--------Class: Basin-----------------------------------------------------------
Basin: B-E231     Node: N-E230     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4           Concentration Time(min): 47
            Curve #: 79                  Time Shift(hrs): 0
            DCIA(%): 0

          PS BOFF3

--------Class: Basin-----------------------------------------------------------
Basin: B-E240     Node: N-E240     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 4.48        Concentration Time(min): 12
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B014

--------Class: Basin-----------------------------------------------------------
Basin: B-E250     Node: N-E250     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 5.35        Concentration Time(min): 20
            Curve #: 84                  Time Shift(hrs): 0
            DCIA(%): 0

          PS B013

--------Class: Basin-----------------------------------------------------------
Basin: B-E251     Node: N-E250     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 59          Concentration Time(min): 142
            Curve #: 79                  Time Shift(hrs): 0
            DCIA(%): 0

          PS BOFF2

--------Class: Basin-----------------------------------------------------------
Basin: B-E252     Node: N-E250     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 58          Concentration Time(min): 145
            Curve #: 79                  Time Shift(hrs): 0
            DCIA(%): 0

          PS BOFF1

--------Class: Basin-----------------------------------------------------------
Basin: B-E260     Node: N-E260     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 743.9       Concentration Time(min): 330
            Curve #: 77                  Time Shift(hrs): 0
            DCIA(%): 0



--------Class: Basin-----------------------------------------------------------
Basin: B-E270     Node: N-E270     Status: On Site    Type: SCS Unit Hydr
Group: VG
    Unit Hydrograph: UH323                  Peak Factor: 323
      Rainfall File: SCSIII          Storm Duration(hrs): 24
Rainfall Amount(in): 4.6
           Area(ac): 7.94        Concentration Time(min): 49
```

```
            Curve #: 81                 Time Shift(hrs): 0
            DCIA(%): 0

          PS BOFF4

--------Class: Pipe-----------------------------------------------------------

           Name: L-G020P1     From Node: N-G020    Length(ft): 28
          Group: BL             To Node: N-G010         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                  Flow: Both
       Span(in): 48           48           Entrance Loss Coef: 0.2
       Rise(in): 48           48               Exit Loss Coef: 0.2
     Invert(ft): 2.99         2.96             Bend Loss Coef: 0
    Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe-----------------------------------------------------------

           Name: L-G020P2     From Node: N-G020    Length(ft): 68
          Group: BL             To Node: N-G010         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                  Flow: Both
       Span(in): 48           48           Entrance Loss Coef: 0.2
       Rise(in): 48           48               Exit Loss Coef: 0.2
     Invert(ft): 2.77         2.73             Bend Loss Coef: 0
    Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe-----------------------------------------------------------

           Name: L-G040P1     From Node: N-G040    Length(ft): 24
          Group: BL             To Node: N-G030         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                  Flow: Both
       Span(in): 36           36           Entrance Loss Coef: 0.9
       Rise(in): 36           36               Exit Loss Coef: 0.9
     Invert(ft): 6            6                Bend Loss Coef: 0
    Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 6            6              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 6            6             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1


--------Class: Pipe-----------------------------------------------------------

           Name: L-G060P1     From Node: N-G060    Length(ft): 42
          Group: BL             To Node: N-G050         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                  Flow: Both
       Span(in): 8            8            Entrance Loss Coef: 0.5
       Rise(in): 8            8                Exit Loss Coef: 0.5
     Invert(ft): 9.5          9.25             Bend Loss Coef: 0
    Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
```

```
     Circular Concrete: Groove end projecting                 1     3

                  PS L-I1
--------Class: Pipe--------------------------------------------------------------

           Name: L-G070P1     From Node: N-G070    Length(ft): 32
          Group: BL             To Node: N-G050         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 15           15          Entrance Loss Coef: 0.5
       Rise(in): 15           15              Exit Loss Coef: 0
     Invert(ft): 9.5          9.45            Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                  PS L-H1
--------Class: Pipe--------------------------------------------------------------

           Name: L-G080P1     From Node: N-G080    Length(ft): 106
          Group: BL             To Node: N-G070         Count: 2

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Arch         Arch                     Flow: Both
       Span(in): 38           38          Entrance Loss Coef: 0.5
       Rise(in): 24           24              Exit Loss Coef: 0.5
     Invert(ft): 8.65         8.65            Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Pipe Arch 18" Corner Radius CM: 90ø headwall             34    1

     Downstream FHWA Inlet Edge Description:
     Pipe Arch 18" Corner Radius CM: 90ø headwall             34    1

                  PS L-G1
--------Class: Pipe--------------------------------------------------------------

           Name: L-G090P1     From Node: N-G090    Length(ft): 104
          Group: BL             To Node: N-G080         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 30           30          Entrance Loss Coef: 0.5
       Rise(in): 30           30              Exit Loss Coef: 0.5
     Invert(ft): 12           6.5             Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                  PS L-F1
--------Class: Pipe--------------------------------------------------------------

           Name: L-G110P1     From Node: N-G110    Length(ft): 381
          Group: BL             To Node: N-G100         Count: 2

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.5
       Rise(in): 36           36              Exit Loss Coef: 0.5
     Invert(ft): 9            8.5             Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3
```

```
                PS L-D1
--------Class: Pipe-----------------------------------------------------------

          Name: L-G120P1     From Node: N-G120    Length(ft): 104
         Group: BL             To Node: N-G110         Count: 3

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 42           42          Entrance Loss Coef: 0.5
     Rise(in): 42           42              Exit Loss Coef: 0.5
   Invert(ft): 4.5          4.5             Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

                PS L-C1
--------Class: Pipe-----------------------------------------------------------

          Name: L-G130P1     From Node: N-G130    Length(ft): 186
         Group: BL             To Node: N-G120         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.5
     Rise(in): 36           36              Exit Loss Coef: 0.5
   Invert(ft): 10.5         6.5             Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

                PS L-B1
--------Class: Pipe-----------------------------------------------------------

          Name: L-G140P1     From Node: N-G140    Length(ft): 370
         Group: BL             To Node: N-G130         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.5
     Rise(in): 36           36              Exit Loss Coef: 0.5
   Invert(ft): 7            7               Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

                PS L-A1
--------Class: Pipe-----------------------------------------------------------

          Name: L-G150P1     From Node: N-G150    Length(ft): 282
         Group: BL             To Node: N-G140         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.5
     Rise(in): 36           36              Exit Loss Coef: 0.5
   Invert(ft): 10.75        10.5            Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                1     3

                PS L-OFF
--------Class: Pipe-----------------------------------------------------------
```

```
          Name: L-G160P1     From Node: N-G160    Length(ft): 38
         Group: BL             To Node: N-G100         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 8            8           Entrance Loss Coef: 0.5
     Rise(in): 8            8               Exit Loss Coef: 0.5
   Invert(ft): 11           10.8            Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

                PS L-E1
--------Class: Pipe-----------------------------------------------------------

          Name: L-G180P1     From Node: N-G180    Length(ft): 28
         Group: BL             To Node: N-G170         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.9
     Rise(in): 36           36              Exit Loss Coef: 0.9
   Invert(ft): 5.7          5.7             Bend Loss Coef: 0
  Manning's N: 0.025        0.025        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular CMP: Projecting                                 2     3

    Downstream FHWA Inlet Edge Description:
    Circular CMP: Projecting                                 2     3

             Existing dirt road over 36" pipe
--------Class: Pipe-----------------------------------------------------------

          Name: L-B060P1     From Node: N-B060    Length(ft): 68
         Group: HH             To Node: N-B050         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 24           24          Entrance Loss Coef: 0.2
     Rise(in): 24           24              Exit Loss Coef: 0.2
   Invert(ft): 2.25         1.74            Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Square edge w/ headwall               1     1

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-B230P1     From Node: N-B230    Length(ft): 40
         Group: HH             To Node: N-B220         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 24           24          Entrance Loss Coef: 0.2
     Rise(in): 24           24              Exit Loss Coef: 0.2
   Invert(ft): 9            4.6             Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-F020P1     From Node: N-F020    Length(ft): 222
```

```
          Group: MC             To Node: N-F010         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 60           60          Entrance Loss Coef: 0.4
       Rise(in): 60           60              Exit Loss Coef: 0
     Invert(ft): 3            2.94            Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 PS L-AB4A
--------Class: Pipe-----------------------------------------------------------

           Name: L-F030P1     From Node: N-F030    Length(ft): 425
          Group: MC             To Node: N-F020         Count: 2

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.4
       Rise(in): 36           36              Exit Loss Coef: 0
     Invert(ft): 7            4               Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

                 PS L-AB4
--------Class: Pipe-----------------------------------------------------------

           Name: L-F040P1     From Node: N-F040    Length(ft): 120
          Group: MC             To Node: N-F030         Count: 3

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 30           30          Entrance Loss Coef: 0.4
       Rise(in): 30           30              Exit Loss Coef: 0
     Invert(ft): 9            7               Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 PS L-AB3
--------Class: Pipe-----------------------------------------------------------

           Name: L-F050P1     From Node: N-F050    Length(ft): 362
          Group: MC             To Node: N-F040         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 48           48          Entrance Loss Coef: 0.4
       Rise(in): 48           48              Exit Loss Coef: 0
     Invert(ft): 7            5.5             Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 PS L-AB2A
--------Class: Pipe-----------------------------------------------------------

           Name: L-F060P1     From Node: N-F060    Length(ft): 20
          Group: MC             To Node: N-F050         Count: 2
```

```
                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.4
       Rise(in): 36           36              Exit Loss Coef: 0
     Invert(ft): 9.5          7               Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

                 PS L-AB2
--------Class: Pipe----------------------------------------------------------

           Name: L-F070P1     From Node: N-F070    Length(ft): 320
          Group: MC             To Node: N-F060         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.5
       Rise(in): 36           36              Exit Loss Coef: 0
     Invert(ft): 10.5         9               Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 PS L-AB1
--------Class: Pipe----------------------------------------------------------

           Name: L-F080P1     From Node: N-F080    Length(ft): 260
          Group: MC             To Node: N-F070         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 24           24          Entrance Loss Coef: 0.5
       Rise(in): 24           24              Exit Loss Coef: 0
     Invert(ft): 12.3         11              Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end w/ headwall                1     2

                 PS L-AB1A
--------Class: Pipe----------------------------------------------------------

           Name: L-A060P1     From Node: N-A060    Length(ft): 43
          Group: RR             To Node: N-A050         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 12           12          Entrance Loss Coef: 0.2
       Rise(in): 12           12              Exit Loss Coef: 0.2
     Invert(ft): 3            3               Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall               1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall               1     1


--------Class: Pipe----------------------------------------------------------

           Name: L-A060P2     From Node: N-A060    Length(ft): 43
          Group: RR             To Node: N-A050         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Rectangular  Rectangular              Flow: Both
```

```
       Span(in): 96          96          Entrance Loss Coef: 0.2
       Rise(in): 30          30              Exit Loss Coef: 0.2
     Invert(ft): 4           4               Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Rectangular Box: 30ø to 75ø wingwall flares              8     1

     Downstream FHWA Inlet Edge Description:
     Rectangular Box: 30ø to 75ø wingwall flares              8     1


--------Class: Pipe-----------------------------------------------------------

          Name: L-A100P1     From Node: N-A100    Length(ft): 52
         Group: RR             To Node: N-A090         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
       Span(in): 30          30          Entrance Loss Coef: 0.2
       Rise(in): 30          30              Exit Loss Coef: 0.2
     Invert(ft): 5.85        6.76            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P1     From Node: N-A120    Length(ft): 74
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
       Span(in): 68          68          Entrance Loss Coef: 0.2
       Rise(in): 68          68              Exit Loss Coef: 0.2
     Invert(ft): 1.81        2.06            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 34          34          Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                Arch part of concrete culvert under RR
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P2     From Node: N-A120    Length(ft): 74
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Rectangular  Rectangular              Flow: Both
       Span(in): 68          68          Entrance Loss Coef: 0.2
       Rise(in): 38          38              Exit Loss Coef: 0.2
     Invert(ft): 1.48        1.73            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Rectangular Box: 30ø to 75ø wingwall flares              8     1

     Downstream FHWA Inlet Edge Description:
     Rectangular Box: 30ø to 75ø wingwall flares              8     1

                Bottom part of concrete culvert under RR
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P3     From Node: N-A120    Length(ft): 74
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
       Span(in): 72          72          Entrance Loss Coef: 0.2
       Rise(in): 72          72              Exit Loss Coef: 0.2
```

```
     Invert(ft): 1.82         1.73           Bend Loss Coef: 0
    Manning's N: 0.012        0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

                steel pipe #1
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P4     From Node: N-A120    Length(ft): 74
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
      Geometry: Circular     Circular                Flow: Both
      Span(in): 72           72          Entrance Loss Coef: 0.2
      Rise(in): 72           72              Exit Loss Coef: 0.2
     Invert(ft): 1.5         1.73            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

                steel pipe #2
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P5     From Node: N-A120    Length(ft): 74
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
      Geometry: Circular     Circular                Flow: Both
      Span(in): 72           72          Entrance Loss Coef: 0.2
      Rise(in): 72           72              Exit Loss Coef: 0.2
     Invert(ft): 1.03        1.7             Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

                steel pipe #3
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P6     From Node: N-A120    Length(ft): 46
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
      Geometry: Circular     Circular                Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
     Invert(ft): 2.39        3.17            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                1     3

                Pipe off to the side
--------Class: Pipe-----------------------------------------------------------

          Name: L-A120P7     From Node: N-A120    Length(ft): 46
         Group: RR             To Node: N-A110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
      Geometry: Circular     Circular                Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
     Invert(ft): 2.97        3.51            Bend Loss Coef: 0
    Manning's N: 0.012       0.012       Outlet Cntrl Spec: Use dc or tw
```

```
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 Pipe off to the side
--------Class: Pipe-------------------------------------------------------------

           Name: L-A140P1     From Node: N-A140    Length(ft): 46
          Group: RR             To Node: N-A130         Count: 1

                 UPSTREAM     DOWNSTREAM           Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 48           48          Entrance Loss Coef: 0.2
       Rise(in): 48           48              Exit Loss Coef: 0.2
     Invert(ft): 3.33         3.39            Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

--------Class: Pipe-------------------------------------------------------------

           Name: L-A140P2     From Node: N-A140    Length(ft): 46
          Group: RR             To Node: N-A130         Count: 1

                 UPSTREAM     DOWNSTREAM           Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 48           48          Entrance Loss Coef: 0.2
       Rise(in): 48           48              Exit Loss Coef: 0.2
     Invert(ft): 3.47         3.81            Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

--------Class: Pipe-------------------------------------------------------------

           Name: L-C010P1     From Node: N-C010    Length(ft): 48
          Group: SM1            To Node: N-B210         Count: 1

                 UPSTREAM     DOWNSTREAM           Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 60           60          Entrance Loss Coef: 0.9
       Rise(in): 60           60              Exit Loss Coef: 0.9
     Invert(ft): 2.93         2.5             Bend Loss Coef: 0
    Manning's N: 0.025        0.025        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3

--------Class: Pipe-------------------------------------------------------------

           Name: L-C050P1     From Node: N-C050    Length(ft): 66
          Group: SM1            To Node: N-C040         Count: 1

                 UPSTREAM     DOWNSTREAM           Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.2
       Rise(in): 36           36              Exit Loss Coef: 0.2
     Invert(ft): 3.63         3.7             Bend Loss Coef: 0
    Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None
```

```
     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-C050P2     From Node: N-C050    Length(ft): 66
         Group: SM1            To Node: N-C040         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 36           36          Entrance Loss Coef: 0.2
      Rise(in): 36           36              Exit Loss Coef: 0.2
    Invert(ft): 3.94         3.88            Bend Loss Coef: 0
   Manning's N: 0.012        0.012       Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-C060P1     From Node: N-C060    Length(ft): 138
         Group: SM1            To Node: N-C020         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 18           18          Entrance Loss Coef: 0.2
      Rise(in): 18           18              Exit Loss Coef: 0.2
    Invert(ft): 5.48         4.7             Bend Loss Coef: 0
   Manning's N: 0.012        0.012       Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipes leaving curb inlet
--------Class: Pipe-----------------------------------------------------------

          Name: L-C060P2     From Node: N-C060    Length(ft): 134
         Group: SM1            To Node: N-C030         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 18           18          Entrance Loss Coef: 0.2
      Rise(in): 18           18              Exit Loss Coef: 0.2
    Invert(ft): 4.78         3.86            Bend Loss Coef: 0
   Manning's N: 0.012        0.012       Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipes leaving curb inlet
--------Class: Pipe-----------------------------------------------------------

          Name: L-C060P3     From Node: N-C060    Length(ft): 130
         Group: SM1            To Node: N-C040         Count: 2

               UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 18           18          Entrance Loss Coef: 0.2
      Rise(in): 18           18              Exit Loss Coef: 0.2
    Invert(ft): 6.15         5.41            Bend Loss Coef: 0
   Manning's N: 0.012        0.012       Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None
```

```
     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipes leaving curb inlet
--------Class: Pipe-----------------------------------------------------------

           Name: L-C080P1     From Node: N-C080    Length(ft): 60
          Group: SM1            To Node: N-C070         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
    Invert(ft): 4.59         4.16            Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipe #1 under BeesFerry
--------Class: Pipe-----------------------------------------------------------

           Name: L-C080P2     From Node: N-C080    Length(ft): 60
          Group: SM1            To Node: N-C070         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
    Invert(ft): 3.98         4.07            Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipe #2 under BeesFerry
--------Class: Pipe-----------------------------------------------------------

           Name: L-C100P1     From Node: N-C100    Length(ft): 60
          Group: SM1            To Node: N-C090         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
    Invert(ft): 4.3          3.93            Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                Pipe #1 under BeesFerry
--------Class: Pipe-----------------------------------------------------------

           Name: L-C100P2     From Node: N-C100    Length(ft): 60
          Group: SM1            To Node: N-C090         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 48           48          Entrance Loss Coef: 0.2
      Rise(in): 48           48              Exit Loss Coef: 0.2
    Invert(ft): 3.96         4.19            Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
```

```
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                 Pipe #2 under BeesFerry
--------Class: Pipe-------------------------------------------------------------

           Name: L-C140P1     From Node: N-C140    Length(ft): 28
          Group: SM1            To Node: N-C130         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 18           18           Entrance Loss Coef: 0.2
       Rise(in): 18           18               Exit Loss Coef: 0.2
     Invert(ft): 9.5          9                Bend Loss Coef: 0
    Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe-------------------------------------------------------------

           Name: L-C170P1     From Node: N-C170    Length(ft): 88
          Group: SM1            To Node: N-C160         Count: 2

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 48           48           Entrance Loss Coef: 0.9
       Rise(in): 48           48               Exit Loss Coef: 0.9
     Invert(ft): 4.3          3.86             Bend Loss Coef: 0
    Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3


--------Class: Pipe-------------------------------------------------------------

           Name: L-C190P1     From Node: N-C190    Length(ft): 44
          Group: SM1            To Node: N-B200         Count: 1

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 66           66           Entrance Loss Coef: 0.9
       Rise(in): 66           66               Exit Loss Coef: 0.9
     Invert(ft): 3            2.5              Bend Loss Coef: 0
    Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3


--------Class: Pipe-------------------------------------------------------------

           Name: L-C210P1     From Node: N-C210    Length(ft): 20
          Group: SM1            To Node: N-C200         Count: 2

                 UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Arch         Arch                     Flow: Both
       Span(in): 48           48           Entrance Loss Coef: 0.9
       Rise(in): 36           36               Exit Loss Coef: 0.9
     Invert(ft): 3.75         3.75             Bend Loss Coef: 0
    Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0             Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Pipe Arch 18" Corner Radius CM: Projecting               34    3
```

```
     Downstream FHWA Inlet Edge Description:
     Pipe Arch 18" Corner Radius CM: Projecting               34    3


--------Class: Pipe--------------------------------------------------------------

          Name: L-C230P1     From Node: N-C230    Length(ft): 64
         Group: SM1            To Node: N-C220         Count: 5

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.2
     Rise(in): 36           36              Exit Loss Coef: 0.2
   Invert(ft): 5.95         5.55            Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                Inverts are average of all 5 pipes
--------Class: Pipe--------------------------------------------------------------

          Name: L-C240P1     From Node: N-C240    Length(ft): 54
         Group: SM1            To Node: N-C230         Count: 5

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 36           36          Entrance Loss Coef: 0.2
     Rise(in): 36           36              Exit Loss Coef: 0.2
   Invert(ft): 6.2          6.2             Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe--------------------------------------------------------------

          Name: L-C270P1     From Node: N-C270    Length(ft): 100
         Group: SM1            To Node: N-B190         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 18           18          Entrance Loss Coef: 0.2
     Rise(in): 18           18              Exit Loss Coef: 0.2
   Invert(ft): 7            2               Bend Loss Coef: 0
  Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall               1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe--------------------------------------------------------------

          Name: L-D020P1     From Node: N-D020    Length(ft): 24
         Group: SM2            To Node: N-D010         Count: 1

               UPSTREAM     DOWNSTREAM            Equation: Average K
     Geometry: Circular     Circular                 Flow: Both
     Span(in): 18           18          Entrance Loss Coef: 0.9
     Rise(in): 18           18              Exit Loss Coef: 0.9
   Invert(ft): 4            4               Bend Loss Coef: 0
  Manning's N: 0.025        0.025        Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                 2     3
```

```
--------Class: Pipe----------------------------------------------------------

          Name: L-D030P1     From Node: N-D030    Length(ft): 20
         Group: SM2            To Node: N-D120         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 18           18           Entrance Loss Coef: 0.9
      Rise(in): 18           18               Exit Loss Coef: 0.9
    Invert(ft): 6            6                Bend Loss Coef: 0
   Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                  2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                  2     3


--------Class: Pipe----------------------------------------------------------

          Name: L-D040P1     From Node: N-D040    Length(ft): 56
         Group: SM2            To Node: N-D030         Count: 5

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 18           18           Entrance Loss Coef: 0.2
      Rise(in): 18           18               Exit Loss Coef: 0.2
    Invert(ft): 6.17         5.38             Bend Loss Coef: 0
   Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe----------------------------------------------------------

          Name: L-D050P1     From Node: N-D050    Length(ft): 60
         Group: SM2            To Node: N-D040         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 8            8            Entrance Loss Coef: 0.2
      Rise(in): 8            8                Exit Loss Coef: 0.2
    Invert(ft): 9            7                Bend Loss Coef: 0
   Manning's N: 0.012        0.012         Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3


--------Class: Pipe----------------------------------------------------------

          Name: L-D060P1     From Node: N-D060    Length(ft): 225
         Group: SM2            To Node: N-D050         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 24           24           Entrance Loss Coef: 0.9
      Rise(in): 24           24               Exit Loss Coef: 0.9
    Invert(ft): 10           8                Bend Loss Coef: 0
   Manning's N: 0.025        0.025         Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0              Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0             Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                  2     3

     Downstream FHWA Inlet Edge Description:
     Circular CMP: Projecting                                  2     3
```

--------Class: Pipe----------------------------------------------------------

```
          Name: L-D090P1     From Node: N-D090    Length(ft): 108
         Group: SM2            To Node: N-D030         Count: 4

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 36           36          Entrance Loss Coef: 0.2
      Rise(in): 36           36              Exit Loss Coef: 0.2
    Invert(ft): 6.2          5.3             Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3
```

--------Class: Pipe----------------------------------------------------------

```
          Name: L-D110P1     From Node: N-D110    Length(ft): 24
         Group: SM2            To Node: N-D100         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 24           24          Entrance Loss Coef: 0.2
      Rise(in): 24           24              Exit Loss Coef: 0.2
    Invert(ft): 6.2          6.2             Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3
```

--------Class: Pipe----------------------------------------------------------

```
          Name: L-D160P1     From Node: N-D160    Length(ft): 12
         Group: SM2            To Node: N-D150         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 12           12          Entrance Loss Coef: 0.2
      Rise(in): 12           12              Exit Loss Coef: 0.2
    Invert(ft): 7            7               Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3
```

--------Class: Pipe----------------------------------------------------------

```
          Name: L-D170P1     From Node: N-D170    Length(ft): 56
         Group: SM2            To Node: N-D160         Count: 3

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 30           30          Entrance Loss Coef: 0.2
      Rise(in): 30           30              Exit Loss Coef: 0.2
    Invert(ft): 7.5          7.5             Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3
```

--------Class: Pipe----------------------------------------------------------

```
          Name: L-D190P1     From Node: N-D190    Length(ft): 16
         Group: SM2            To Node: N-D180         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 24           24          Entrance Loss Coef: 0.2
      Rise(in): 24           24              Exit Loss Coef: 0.2
    Invert(ft): 10.5         10.5            Bend Loss Coef: 0
   Manning's N: 0.012        0.012        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3


--------Class: Pipe-----------------------------------------------------------

          Name: L-D210P1     From Node: N-D210    Length(ft): 222
         Group: SM2            To Node: N-D200         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 24           24          Entrance Loss Coef: 0.5
      Rise(in): 24           24              Exit Loss Coef: 0.2
    Invert(ft): 9            8.25            Bend Loss Coef: 0
   Manning's N: 0.011        0.011        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

                PS R010A
--------Class: Pipe-----------------------------------------------------------

          Name: L-D220P1     From Node: N-D220    Length(ft): 332
         Group: SM2            To Node: N-D210         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 30           30          Entrance Loss Coef: 0.5
      Rise(in): 30           30              Exit Loss Coef: 0.2
    Invert(ft): 10.5         9.5             Bend Loss Coef: 0
   Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

                PS R010
--------Class: Pipe-----------------------------------------------------------

          Name: L-E030P1     From Node: N-E030    Length(ft): 488
         Group: VG             To Node: N-E020         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                  Flow: Both
      Span(in): 30           30          Entrance Loss Coef: 0.5
      Rise(in): 30           30              Exit Loss Coef: 0.2
    Invert(ft): 8            7               Bend Loss Coef: 0
   Manning's N: 0.011        0.011        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                 1     3

                PS R023
--------Class: Pipe-----------------------------------------------------------

          Name: L-E050P1     From Node: N-E050    Length(ft): 430
         Group: VG             To Node: N-E040         Count: 2
```

```
                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.5
       Rise(in): 36           36              Exit Loss Coef: 0.2
     Invert(ft): 9            7               Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R021
--------Class: Pipe-----------------------------------------------------------

           Name: L-E060P1     From Node: N-E060    Length(ft): 420
          Group: VG             To Node: N-E050         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 15           15          Entrance Loss Coef: 0.5
       Rise(in): 15           15              Exit Loss Coef: 0.2
     Invert(ft): 10           9               Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R020
--------Class: Pipe-----------------------------------------------------------

           Name: L-E080P1     From Node: N-E080    Length(ft): 78
          Group: VG             To Node: N-E070         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 48           48          Entrance Loss Coef: 0.5
       Rise(in): 48           48              Exit Loss Coef: 0.2
     Invert(ft): 10           8               Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R018
--------Class: Pipe-----------------------------------------------------------

           Name: L-E090P1     From Node: N-E090    Length(ft): 338
          Group: VG             To Node: N-E080         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 54           54          Entrance Loss Coef: 0.5
       Rise(in): 54           54              Exit Loss Coef: 0.2
     Invert(ft): 10.5         8               Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None



     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R012
--------Class: Pipe-----------------------------------------------------------

           Name: L-E100P1     From Node: N-E100    Length(ft): 384
          Group: VG             To Node: N-E090         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
```

```
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 42           42          Entrance Loss Coef: 0.5
       Rise(in): 42           42              Exit Loss Coef: 0.2
     Invert(ft): 11           9.84            Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                PS R011
--------Class: Pipe-----------------------------------------------------------

          Name: L-E110P1     From Node: N-E110    Length(ft): 68
         Group: VG             To Node: N-E100         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.5
       Rise(in): 36           36              Exit Loss Coef: 0.2
     Invert(ft): 11           10.5            Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall               1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall               1     1

                PS R005A
--------Class: Pipe-----------------------------------------------------------

          Name: L-E120P1     From Node: N-E120    Length(ft): 126
         Group: VG             To Node: N-E110         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 36           36          Entrance Loss Coef: 0.5
       Rise(in): 36           36              Exit Loss Coef: 0.2
     Invert(ft): 13           9.65            Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                PS R008
--------Class: Pipe-----------------------------------------------------------

          Name: L-E130P1     From Node: N-E130    Length(ft): 176
         Group: VG             To Node: N-E120         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 30           30          Entrance Loss Coef: 0.5
       Rise(in): 30           30              Exit Loss Coef: 0.2
     Invert(ft): 13           12.63           Bend Loss Coef: 0
    Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                 1     3

                PS R007
--------Class: Pipe-----------------------------------------------------------

          Name: L-E140P1     From Node: N-E140    Length(ft): 68
         Group: VG             To Node: N-E130         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
       Geometry: Circular     Circular                 Flow: Both
       Span(in): 24           24          Entrance Loss Coef: 0.5
```

```
      Rise(in): 24          24             Exit Loss Coef: 0.2
    Invert(ft): 15          14             Bend Loss Coef: 0
  Manning's N: 0.013        0.013       Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0           Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Square edge w/ headwall                1     1

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Square edge w/ headwall                1     1

                PS R006
--------Class: Pipe-----------------------------------------------------------

         Name: L-E150P1     From Node: N-E150    Length(ft): 643
        Group: VG             To Node: N-E110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
    Geometry: Circular      Circular                Flow: Both
      Span(in): 18          18          Entrance Loss Coef: 0.5
      Rise(in): 18          18              Exit Loss Coef: 0.2
    Invert(ft): 14          9.65            Bend Loss Coef: 0
  Manning's N: 0.013        0.013       Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0           Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                  1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                  1     3

                PS R002
--------Class: Pipe-----------------------------------------------------------

         Name: L-E160P1     From Node: N-E160    Length(ft): 70
        Group: VG             To Node: N-E150         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
    Geometry: Circular      Circular                Flow: Both
      Span(in): 24          24          Entrance Loss Coef: 0.5
      Rise(in): 24          24              Exit Loss Coef: 0.2
    Invert(ft): 15          14              Bend Loss Coef: 0
  Manning's N: 0.013        0.013       Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0           Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Square edge w/ headwall                1     1

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Square edge w/ headwall                1     1

                PS R001
--------Class: Pipe-----------------------------------------------------------

         Name: L-E170P1     From Node: N-E170    Length(ft): 84
        Group: VG             To Node: N-E110         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
    Geometry: Circular      Circular                Flow: Both
      Span(in): 36          36          Entrance Loss Coef: 0.5
      Rise(in): 36          36              Exit Loss Coef: 0.2
    Invert(ft): 13          11.45           Bend Loss Coef: 0
  Manning's N: 0.013        0.013       Outlet Cntrl Spec: Use dc or tw
 Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0          0           Stabilizer Option: None


    Upstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                  1     3

    Downstream FHWA Inlet Edge Description:
    Circular Concrete: Groove end projecting                  1     3

                PS R005
--------Class: Pipe-----------------------------------------------------------

         Name: L-E180P1     From Node: N-E180    Length(ft): 386
        Group: VG             To Node: N-E170         Count: 1

               UPSTREAM     DOWNSTREAM           Equation: Average K
    Geometry: Circular      Circular                Flow: Both
      Span(in): 24          24          Entrance Loss Coef: 0.5
      Rise(in): 24          24              Exit Loss Coef: 0.2
    Invert(ft): 14          10.85           Bend Loss Coef: 0
```

```
    Manning's N: 0.013        0.013       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0            0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0            0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R004
--------Class: Pipe--------------------------------------------------------------

           Name: L-E190P1     From Node: N-E190    Length(ft): 206
          Group: VG             To Node: N-E180         Count: 1

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 18           18          Entrance Loss Coef: 0.5
      Rise(in): 18           18              Exit Loss Coef: 0.2
    Invert(ft): 15           13.9            Bend Loss Coef: 0
    Manning's N: 0.013       0.013       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R003
--------Class: Pipe--------------------------------------------------------------

           Name: L-E210P1     From Node: N-E210    Length(ft): 80
          Group: VG             To Node: N-E200         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 54           54          Entrance Loss Coef: 0.5
      Rise(in): 54           54              Exit Loss Coef: 0.2
    Invert(ft): 9            7               Bend Loss Coef: 0
    Manning's N: 0.013       0.013       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

                 PS R017
--------Class: Pipe--------------------------------------------------------------

           Name: L-E230P1     From Node: N-E230    Length(ft): 52
          Group: VG             To Node: N-E220         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 54           54          Entrance Loss Coef: 0.5
      Rise(in): 54           54              Exit Loss Coef: 0.2
    Invert(ft): 13           10              Bend Loss Coef: 0
    Manning's N: 0.013       0.013       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

                 PS R015
--------Class: Pipe--------------------------------------------------------------

           Name: L-E240P1     From Node: N-E240    Length(ft): 84
          Group: VG             To Node: N-E230         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 54           54          Entrance Loss Coef: 0.5
      Rise(in): 54           54              Exit Loss Coef: 0.2
    Invert(ft): 14           10              Bend Loss Coef: 0
    Manning's N: 0.013       0.013       Outlet Cntrl Spec: Use dc or tw
   Top Clip(in): 0           0            Inlet Cntrl Spec: Use dn
```

```
Bottom Clip(in): 0           0           Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

                 PS R014
--------Class: Pipe--------------------------------------------------------------

          Name: L-E250P1     From Node: N-E250    Length(ft): 72
         Group: VG             To Node: N-E240         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 54           54          Entrance Loss Coef: 0.5
      Rise(in): 54           54              Exit Loss Coef: 0.2
    Invert(ft): 14           10              Bend Loss Coef: 0
   Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Square edge w/ headwall                1     1

                 PS R013
--------Class: Pipe--------------------------------------------------------------

          Name: L-E270P1     From Node: N-E270    Length(ft): 180
         Group: VG             To Node: N-E260         Count: 2

                UPSTREAM     DOWNSTREAM            Equation: Average K
      Geometry: Circular     Circular                 Flow: Both
      Span(in): 18           18          Entrance Loss Coef: 0.2
      Rise(in): 18           18              Exit Loss Coef: 0.2
    Invert(ft): 7            6.64            Bend Loss Coef: 0
   Manning's N: 0.013        0.013        Outlet Cntrl Spec: Use dc or tw
  Top Clip(in): 0            0             Inlet Cntrl Spec: Use dn
Bottom Clip(in): 0           0            Stabilizer Option: None


     Upstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

     Downstream FHWA Inlet Edge Description:
     Circular Concrete: Groove end projecting                  1     3

                 PS R025
--------Class: Channel-------------------------------------------------------------
 Name: L-G010C1         From Node: N-G010        Length(ft): 6500
Group: BL                 To Node: N-A140             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 3.5         1                       Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-G010-1     X-G010-2     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel-------------------------------------------------------------
 Name: L-G030C1         From Node: N-G030        Length(ft): 3300
Group: BL                 To Node: N-G020             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 6           2.7                     Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-G030-1     X-G030-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
```

```
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-G050C1         From Node: N-G050        Length(ft): 2800
  Group: BL                 To Node: N-G020             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4.3          2.7                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-G050-1     X-G050-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-G100C1         From Node: N-G100        Length(ft): 2600
  Group: BL                 To Node: N-G050             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4.6          4.3                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-G100-1     X-G100-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-G170C1         From Node: N-G170        Length(ft): 825
  Group: BL                 To Node: N-G100             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 5.7          4.6                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-G170-1     X-G170-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B010C1         From Node: N-B010        Length(ft): 1500
  Group: HH                 To Node: N-A120             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
```

```
    Main Xsec: X-B010-1     X-B010-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B050C1         From Node: N-B050        Length(ft): 200
  Group: HH                 To Node: N-B020             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.7          1.5                       Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-B050-1     X-B050-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B070C1         From Node: N-B070        Length(ft): 550
  Group: HH                 To Node: N-B060             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 2.5          2                         Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-B070-1     X-B070-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B080C1         From Node: N-B080        Length(ft): 950
  Group: HH                 To Node: N-B020             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
TclpInitZ(ft): 99999        99999         Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-B080-1     X-B080-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B090C1         From Node: N-B090        Length(ft): 260
  Group: HH                 To Node: N-B080             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 2            1.5                       Flow: Both
TclpInitZ(ft): 99999        99999         Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
```

```
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B090-1     X-B090-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B110C1         From Node: N-B110        Length(ft): 900
  Group: HH                 To Node: N-B100             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4            3.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B110-1     X-B110-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B120C1         From Node: N-B120        Length(ft): 900
  Group: HH                 To Node: N-B080             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B120-1     X-B120-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B130C1         From Node: N-B130        Length(ft): 260
  Group: HH                 To Node: N-B120             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
TclpInitZ(ft): 999          999          Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B130-1     X-B130-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B150C1         From Node: N-B150        Length(ft): 1200
  Group: HH                 To Node: N-B140             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
```

```
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B150-1     X-B150-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B160C1         From Node: N-B160        Length(ft): 1400
  Group: HH                 To Node: N-B120             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B160-1     X-B160-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B180C1         From Node: N-B180        Length(ft): 460
  Group: HH                 To Node: N-B160             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.5          1.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B180-1     X-B180-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B190C1         From Node: N-B190        Length(ft): 1650
  Group: HH                 To Node: N-B180             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 1.7          1.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-B190-1     X-B190-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-B200C1         From Node: N-B200        Length(ft): 975
  Group: HH                 To Node: N-B190             Count: 1

               UPSTREAM    DOWNSTREAM
```

```
     Geometry: Irregular    Irregular            Equation: Aver Conveyance
    Invert(ft): 1.8         1.7                      Flow: Both
 TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
   Manning's N:                           Eddy Expans Coef: 0.3
     TClip(ft): 0           0           Entrance Loss Coef: 0
     BClip(ft): 0           0               Exit Loss Coef: 0
     Main Xsec: X-B200-1    X-B200-1     Outlet Cntrl Spec: Use dc or tw
     AxEl1(ft): 0           0             Inlet Cntrl Spec: Use dn
     Aux Xsec1:                          Stabilizer Option: None
     AxEl2(ft): 0           0
     Aux Xsec2:
    TWidth(ft):
     Depth(ft):
    BWidth(ft):
   LSdSlp(h/v):
   RSdSlp(h/v):


   --------Class: Channel-----------------------------------------------------------
    Name: L-B210C1          From Node: N-B210        Length(ft): 940
   Group: HH                  To Node: N-B200             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular            Equation: Aver Conveyance
    Invert(ft): 1.9         1.8                      Flow: Both
 TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
   Manning's N:                           Eddy Expans Coef: 0.3
     TClip(ft): 0           0           Entrance Loss Coef: 0
     BClip(ft): 0           0               Exit Loss Coef: 0
     Main Xsec: X-B210-1    X-B210-1     Outlet Cntrl Spec: Use dc or tw
     AxEl1(ft): 0           0             Inlet Cntrl Spec: Use dn
     Aux Xsec1:                          Stabilizer Option: None
     AxEl2(ft): 0           0
     Aux Xsec2:
    TWidth(ft):
     Depth(ft):
    BWidth(ft):
   LSdSlp(h/v):
   RSdSlp(h/v):


   --------Class: Channel-----------------------------------------------------------
    Name: L-B220C1          From Node: N-B220        Length(ft): 470
   Group: HH                  To Node: N-B210             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular            Equation: Aver Conveyance
    Invert(ft): 2           1.9                      Flow: Both
 TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
   Manning's N:                           Eddy Expans Coef: 0.3
     TClip(ft): 0           0           Entrance Loss Coef: 0
     BClip(ft): 0           0               Exit Loss Coef: 0
     Main Xsec: X-B210-1    X-B210-1     Outlet Cntrl Spec: Use dc or tw
     AxEl1(ft): 0           0             Inlet Cntrl Spec: Use dn
     Aux Xsec1:                          Stabilizer Option: None
     AxEl2(ft): 0           0
     Aux Xsec2:
    TWidth(ft):
     Depth(ft):
    BWidth(ft):
   LSdSlp(h/v):
   RSdSlp(h/v):


   --------Class: Channel-----------------------------------------------------------
    Name: L-A015C1          From Node: N-A015        Length(ft): 3000
   Group: RR                  To Node: N-A010             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular            Equation: Aver Conveyance
    Invert(ft): -4.2        -4.2                     Flow: Both
 TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.3
   Manning's N:                           Eddy Expans Coef: 0.5
     TClip(ft): 0           0           Entrance Loss Coef: 0
     BClip(ft): 0           0               Exit Loss Coef: 0
     Main Xsec: X-A020-1    X-A020-1     Outlet Cntrl Spec: Use dc or tw
     AxEl1(ft): 0           0             Inlet Cntrl Spec: Use dn
     Aux Xsec1:                          Stabilizer Option: None
     AxEl2(ft): 0           0
     Aux Xsec2:
    TWidth(ft):
     Depth(ft):
    BWidth(ft):
   LSdSlp(h/v):
   RSdSlp(h/v):


   --------Class: Channel-----------------------------------------------------------
    Name: L-A020C1          From Node: N-A020        Length(ft): 700
   Group: RR                  To Node: N-A015             Count: 1
```

```
                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
    Invert(ft): -4.2        -4.2                      Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.3
  Manning's N:                            Eddy Expans Coef: 0.5
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-A020-1     X-A020-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel--------------------------------------------------------
   Name: L-A040C1         From Node: N-A040        Length(ft): 6000
  Group: RR                 To Node: N-A030             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
    Invert(ft): -1          -4.2                      Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-A040-1     X-A040-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel--------------------------------------------------------
   Name: L-A050C1         From Node: N-A050        Length(ft): 1300
  Group: RR                 To Node: N-A040             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
    Invert(ft): 2           -1                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-A050-1     X-A050-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel--------------------------------------------------------
   Name: L-A090C1         From Node: N-A090        Length(ft): 2170
  Group: RR                 To Node: N-A060             Count: 1

                UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
    Invert(ft): 5           3                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-A090-1     X-A090-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel--------------------------------------------------------
```

```
   Name: L-A110C1         From Node: N-A110        Length(ft): 5100
  Group: RR                 To Node: N-A040             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular   Irregular             Equation: Aver Conveyance
    Invert(ft): 0           -1                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-A110-1     X-A110-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-A130C1         From Node: N-A130        Length(ft): 1100
  Group: RR                 To Node: N-A110             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular   Irregular             Equation: Aver Conveyance
    Invert(ft): 3           1                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-A130-1     X-A130-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-A140C1         From Node: N-A140        Length(ft): 1100
  Group: RR                 To Node: N-A120             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular   Irregular             Equation: Aver Conveyance
    Invert(ft): 1           1                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-A140-1     X-A140-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C020C1         From Node: N-C020        Length(ft): 300
  Group: SM1                To Node: N-C010             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular   Irregular             Equation: Aver Conveyance
    Invert(ft): 3.2         3                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-C020-1     X-C020-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):
```

```
--------Class: Channel----------------------------------------------------------
 Name: L-C030C1         From Node: N-C030        Length(ft): 325
Group: SM1                To Node: N-C020             Count: 1

               UPSTREAM    DOWNSTREAM
   Geometry: Irregular    Irregular             Equation: Aver Conveyance
  Invert(ft): 3.4          3.2                      Flow: Both
TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
Manning's N:                             Eddy Expans Coef: 0.3
  TClip(ft): 0             0           Entrance Loss Coef: 0
  BClip(ft): 0             0               Exit Loss Coef: 0
  Main Xsec: X-C030-1      X-C030-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0             0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0             0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel----------------------------------------------------------
 Name: L-C040C1         From Node: N-C040        Length(ft): 525
Group: SM1                To Node: N-C030             Count: 1

               UPSTREAM    DOWNSTREAM
   Geometry: Irregular    Irregular             Equation: Aver Conveyance
  Invert(ft): 3.6          3.4                      Flow: Both
TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
Manning's N:                             Eddy Expans Coef: 0.3
  TClip(ft): 0             0           Entrance Loss Coef: 0
  BClip(ft): 0             0               Exit Loss Coef: 0
  Main Xsec: X-C040-1      X-C040-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0             0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0             0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel----------------------------------------------------------
 Name: L-C070C1         From Node: N-C070        Length(ft): 325
Group: SM1                To Node: N-C050             Count: 1

               UPSTREAM    DOWNSTREAM
   Geometry: Irregular    Irregular             Equation: Aver Conveyance
  Invert(ft): 3.6          3.6                      Flow: Both
TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
Manning's N:                             Eddy Expans Coef: 0.3
  TClip(ft): 0             0           Entrance Loss Coef: 0
  BClip(ft): 0             0               Exit Loss Coef: 0
  Main Xsec: X-C070-1      X-C070-2     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0             0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0             0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel----------------------------------------------------------
 Name: L-C090C1         From Node: N-C090        Length(ft): 400
Group: SM1                To Node: N-C080             Count: 1

               UPSTREAM    DOWNSTREAM
   Geometry: Irregular    Irregular             Equation: Aver Conveyance
  Invert(ft): 4            4                        Flow: Both
TclpInitZ(ft): 9999        9999         Eddy Contrac Coef: 0.1
Manning's N:                             Eddy Expans Coef: 0.3
  TClip(ft): 0             0           Entrance Loss Coef: 0
  BClip(ft): 0             0               Exit Loss Coef: 0
  Main Xsec: X-C090-1      X-C090-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0             0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0             0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):
```

```
--------Class: Channel-----------------------------------------------------------
 Name: L-C120C1         From Node: N-C120        Length(ft): 475
Group: SM1                To Node: N-C110             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 3.5         3.5                      Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-C120-1     X-C120-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel-----------------------------------------------------------
 Name: L-C120C2         From Node: N-C120        Length(ft): 500
Group: SM1                To Node: N-C260             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 3.5         3.5                      Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-C120-2     X-C120-2     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel-----------------------------------------------------------
 Name: L-C130C1         From Node: N-C130        Length(ft): 1400
Group: SM1                To Node: N-C120             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 3.5         3.5                      Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-C130-1     X-C130-2     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Channel-----------------------------------------------------------
 Name: L-C150C1         From Node: N-C150        Length(ft): 1200
Group: SM1                To Node: N-C130             Count: 1

              UPSTREAM    DOWNSTREAM
    Geometry: Irregular   Irregular            Equation: Aver Conveyance
  Invert(ft): 3.5         3.5                      Flow: Both
TclpInitZ(ft): 9999       9999         Eddy Contrac Coef: 0.1
Manning's N:                            Eddy Expans Coef: 0.3
  TClip(ft): 0            0           Entrance Loss Coef: 0
  BClip(ft): 0            0               Exit Loss Coef: 0
  Main Xsec: X-C150-1     X-C150-2     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
```

```
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C160C1         From Node: N-C160        Length(ft): 550
  Group: SM1                To Node: N-C130             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 3.5          3.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-C160-1     X-C160-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C180C1         From Node: N-C180        Length(ft): 775
  Group: SM1                To Node: N-C170             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4            4                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-C180-1     X-C180-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C200C1         From Node: N-C200        Length(ft): 415
  Group: SM1                To Node: N-C190             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 3.75         3                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec: X-C200-1     X-C200-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C210C1         From Node: N-C210        Length(ft): 100
  Group: SM1                To Node: N-C030             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Trapezoidal  Trapezoidal           Equation: Aver Conveyance
   Invert(ft): 4            4                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N: 0.045        0.045         Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0               Exit Loss Coef: 0
    Main Xsec:                           Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft):                            Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft):
    Aux Xsec2:
   TWidth(ft):
```

```
    Depth(ft):
   BWidth(ft): 4            4
  LSdSlp(h/v): 2            2
  RSdSlp(h/v): 2            2


  --------Class: Channel-----------------------------------------------------------
   Name: L-C220C1         From Node: N-C220        Length(ft): 575
  Group: SM1                To Node: N-C210             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4.5          3.75                      Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-C220-1     X-C220-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C250C1         From Node: N-C250        Length(ft): 500
  Group: SM1                To Node: N-C240             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 7.5          6                         Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-C250-1     X-C250-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-C260C1         From Node: N-C260        Length(ft): 600
  Group: SM1                To Node: N-C100             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 8.3          4.5                       Flow: Both
TclpInitZ(ft): 999          999           Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-C260-1     X-C260-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D010C1         From Node: N-D010        Length(ft): 700
  Group: SM2                To Node: N-B160             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 3            2                         Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-D010-1     X-D010-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
```

```
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D020C1         From Node: N-D020        Length(ft): 55
  Group: SM2                To Node: N-B180             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 3.5          3                         Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-D020-1     X-D020-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D070C1         From Node: N-D070        Length(ft): 680
  Group: SM2                To Node: N-D060             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 13.6         9.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-D070-1     X-D070-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D100C1         From Node: N-D100        Length(ft): 400
  Group: SM2                To Node: N-D090             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 5.5          5.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                            Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-D100-1     X-D100-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D120C1         From Node: N-D120        Length(ft): 675
  Group: SM2                To Node: N-D020             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Trapezoidal  Trapezoidal           Equation: Aver Conveyance
   Invert(ft): 4.8          3.5                       Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N: 0.04         0.04          Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec:                           Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft):                            Inlet Cntrl Spec: Use dn
```

```
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft):
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft): 3            3
  LSdSlp(h/v): 2            2
  RSdSlp(h/v): 2            2


  --------Class: Channel-----------------------------------------------------------
   Name: L-D120C2         From Node: N-D120        Length(ft): 1200
  Group: SM2                To Node: N-D130             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Trapezoidal  Trapezoidal           Equation: Aver Conveyance
   Invert(ft): 4.8          4.5                      Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N: 0.04         0.04          Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec:                          Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft):                           Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft):
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft): 3            3
  LSdSlp(h/v): 2            2
  RSdSlp(h/v): 2            2


  --------Class: Channel-----------------------------------------------------------
   Name: L-D130C1         From Node: N-D130        Length(ft): 1800
  Group: SM2                To Node: N-D010             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 4.5          3                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                           Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-D130-2     X-D130-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0            Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D140C1         From Node: N-D140        Length(ft): 1050
  Group: SM2                To Node: N-D130             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 5            4.5                      Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                           Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
    Main Xsec: X-D140-1     X-D140-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0            Inlet Cntrl Spec: Use dn
    Aux Xsec1:                          Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D150C1         From Node: N-D150        Length(ft): 2300
  Group: SM2                To Node: N-D140             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 7            5                        Flow: Both
TclpInitZ(ft): 9999         9999         Eddy Contrac Coef: 0.1
  Manning's N:                           Eddy Expans Coef: 0.3
    TClip(ft): 0            0           Entrance Loss Coef: 0
    BClip(ft): 0            0              Exit Loss Coef: 0
```

```
    Main Xsec: X-D150-1     X-D150-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D180C1         From Node: N-D180        Length(ft): 1250
  Group: SM2                To Node: N-D170             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 10.5         7.5                       Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-D180-1     X-D180-2     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-D200C1         From Node: N-D200        Length(ft): 900
  Group: SM2                To Node: N-D160             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Trapezoidal  Trapezoidal           Equation: Aver Conveyance
   Invert(ft): 8            7                         Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N: 0.06         0.06           Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec:                           Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft):                            Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft):
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft): 4            4
  LSdSlp(h/v): 2            2
  RSdSlp(h/v): 2            2


  --------Class: Channel-----------------------------------------------------------
   Name: L-E010C1         From Node: N-E010        Length(ft): 2300
  Group: VG                 To Node: N-D140             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 5.2          5                         Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
    TClip(ft): 0            0            Entrance Loss Coef: 0
    BClip(ft): 0            0                Exit Loss Coef: 0
    Main Xsec: X-E010-1     X-E010-1     Outlet Cntrl Spec: Use dc or tw
    AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
    Aux Xsec1:                           Stabilizer Option: None
    AxEl2(ft): 0            0
    Aux Xsec2:
   TWidth(ft):
    Depth(ft):
   BWidth(ft):
  LSdSlp(h/v):
  RSdSlp(h/v):


  --------Class: Channel-----------------------------------------------------------
   Name: L-E260C1         From Node: N-E260        Length(ft): 1500
  Group: VG                 To Node: N-E010             Count: 1

               UPSTREAM    DOWNSTREAM
     Geometry: Irregular    Irregular             Equation: Aver Conveyance
   Invert(ft): 5.4          5.2                       Flow: Both
TclpInitZ(ft): 9999         9999          Eddy Contrac Coef: 0.1
  Manning's N:                             Eddy Expans Coef: 0.3
```

```
  TClip(ft): 0            0          Entrance Loss Coef: 0
  BClip(ft): 0            0              Exit Loss Coef: 0
  Main Xsec: X-E260-1     X-E260-1     Outlet Cntrl Spec: Use dc or tw
  AxEl1(ft): 0            0             Inlet Cntrl Spec: Use dn
  Aux Xsec1:                           Stabilizer Option: None
  AxEl2(ft): 0            0
  Aux Xsec2:
 TWidth(ft):
  Depth(ft):
 BWidth(ft):
LSdSlp(h/v):
RSdSlp(h/v):


--------Class: Weir----------------------------------------------------------
    Name: L-G020W1          From Node: N-G020
   Group: BL                  To Node: N-G010
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

            XSec Name: X-G020-1


           Invert(ft): 12.92
      Control Elev(ft): 12.92
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir----------------------------------------------------------
    Name: L-G040W1          From Node: N-G040
   Group: BL                  To Node: N-G030
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 50
  Left Side Slope(h/v): 30
 Right Side Slope(h/v): 30
           Invert(ft): 11.5
      Control Elev(ft): 11.5
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6



--------Class: Weir----------------------------------------------------------
    Name: L-G060W1          From Node: N-G060
   Group: BL                  To Node: N-G050
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 8
  Left Side Slope(h/v): 1
 Right Side Slope(h/v): 1
           Invert(ft): 12.5
      Control Elev(ft): 12.5
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS W-I2

--------Class: Weir----------------------------------------------------------
    Name: L-G060W2          From Node: N-G060
   Group: BL                  To Node: N-G050
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
           Invert(ft): 13
      Control Elev(ft): 13
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING
```

```
--------Class: Weir----------------------------------------------------------
    Name: L-G070W1           From Node: N-G070
   Group: BL                   To Node: N-G050
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 1
 Right Side Slope(h/v): 1
            Invert(ft): 11
      Control Elev(ft): 11
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS W-H2

--------Class: Weir----------------------------------------------------------
    Name: L-G070W2           From Node: N-G070
   Group: BL                   To Node: N-G050
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 13
      Control Elev(ft): 13
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING

--------Class: Weir----------------------------------------------------------
    Name: L-G110W1           From Node: N-G110
   Group: BL                   To Node: N-G100
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 14
      Control Elev(ft): 14
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING

--------Class: Weir----------------------------------------------------------
    Name: L-G160W1           From Node: N-G160
   Group: BL                   To Node: N-G100
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 8
  Left Side Slope(h/v): 1
 Right Side Slope(h/v): 1
            Invert(ft): 12.5
      Control Elev(ft): 12.5
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS W-E2

--------Class: Weir----------------------------------------------------------
    Name: L-G160W2           From Node: N-G160
   Group: BL                   To Node: N-G100
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 14
      Control Elev(ft): 14
  StructOpeningDim(ft): 99999       TABLE
```

```
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING

--------Class: Weir-------------------------------------------------------------
    Name: L-G180W1           From Node: N-G180
   Group: BL                   To Node: N-G170
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-G180-1


            Invert(ft): 10.74
      Control Elev(ft): 10.74
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6

   Dirt road

--------Class: Weir-------------------------------------------------------------
    Name: L-B030W1           From Node: N-B030
   Group: HH                   To Node: N-B020
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 1.5
 Right Side Slope(h/v): 1.5
            Invert(ft): 2
      Control Elev(ft): 2
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.3
Orifice Discharge Coef: 0.6

   Channel section leaving lake area

--------Class: Weir-------------------------------------------------------------
    Name: L-B040W1           From Node: N-B040
   Group: HH                   To Node: N-B030
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 2
 Right Side Slope(h/v): 20
            Invert(ft): 10
      Control Elev(ft): 10
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6

   Elevation of pond is set 3 ft lower than plans

--------Class: Weir-------------------------------------------------------------
    Name: L-B060W1           From Node: N-B060
   Group: HH                   To Node: N-B050
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-B060-1


            Invert(ft): 8.82
      Control Elev(ft): 8.82
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-B100W1           From Node: N-B100
   Group: HH                   To Node: N-B090
   Count: 1

 Type: Fread    Flow: Both       Geometry: Rectangular
```

```
              Span(in): 150
              Rise(in): 5
            Invert(ft): 7.6
      Control Elev(ft): 7.6
                                      TABLE
       Bottom Clip(in): 0
          Top Clip(in): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-B140W1           From Node: N-B140
   Group: HH                   To Node: N-B130
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-B140-1


            Invert(ft): 7.39
      Control Elev(ft): 7.39
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-B170W1           From Node: N-B170
   Group: HH                   To Node: N-B160
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 2
 Right Side Slope(h/v): 2
            Invert(ft): 2
      Control Elev(ft): 2
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-B230W1           From Node: N-B230
   Group: HH                   To Node: N-B220
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 100
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 12
      Control Elev(ft): 12
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-A060W1           From Node: N-A060
   Group: RR                   To Node: N-A050
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-A060-1


            Invert(ft): 7.19
      Control Elev(ft): 7.19
  StructOpeningDim(ft): 999         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
```

```
    Name: L-A100W1           From Node: N-A100
   Group: RR                   To Node: N-A090
   Count: 1

 Type: Fread    Flow: Both       Geometry: Rectangular


              Span(in): 500
              Rise(in): 2
            Invert(ft): 14.88
      Control Elev(ft): 14.88
                                      TABLE
       Bottom Clip(in): 0
          Top Clip(in): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-A120W1           From Node: N-A120
   Group: RR                   To Node: N-A110
   Count: 1

 Type: Fread    Flow: Both       Geometry: Rectangular


              Span(in): 1000
              Rise(in): 4
            Invert(ft): 12.23
      Control Elev(ft): 12.23
                                      TABLE
       Bottom Clip(in): 0
          Top Clip(in): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-A140W1           From Node: N-A140
   Group: RR                   To Node: N-A130
   Count: 1

 Type: Fread    Flow: Both       Geometry: Rectangular


              Span(in): 500
              Rise(in): 4
            Invert(ft): 12.16
      Control Elev(ft): 12.16
                                      TABLE
       Bottom Clip(in): 0
          Top Clip(in): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-C010W1           From Node: N-C010
   Group: SM1                  To Node: N-B210
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 100
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 12.4
      Control Elev(ft): 12.4
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-C050W1           From Node: N-C050
   Group: SM1                  To Node: N-C060
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C050-1


            Invert(ft): 8.9
      Control Elev(ft): 8.9
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
```

```
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6

   Portion of road that drains to Wolk Dr

--------Class: Weir----------------------------------------------------------
    Name: L-C050W2           From Node: N-C050
   Group: SM1                  To Node: N-C040
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C050-2


           Invert(ft): 8.9
      Control Elev(ft): 8.9
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6

   Portion of road that drains to golf course

--------Class: Weir----------------------------------------------------------
    Name: L-C080W1           From Node: N-C080
   Group: SM1                  To Node: N-C070
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C080-1


           Invert(ft): 11.39
      Control Elev(ft): 11.39
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir----------------------------------------------------------
    Name: L-C100W1           From Node: N-C100
   Group: SM1                  To Node: N-C090
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C100-1


           Invert(ft): 12.35
      Control Elev(ft): 12.35
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6

   BeesFerry

--------Class: Weir----------------------------------------------------------
    Name: L-C110W1           From Node: N-C110
   Group: SM1                  To Node: N-C100
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
           Invert(ft): 7.48
      Control Elev(ft): 7.48
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 2
          Top Clip(ft): 0
   Weir Discharge Coef: 3.3
Orifice Discharge Coef: 0.6

   2 FT Flashboard in weir

--------Class: Weir----------------------------------------------------------
    Name: L-C140W1           From Node: N-C140
   Group: SM1                  To Node: N-C130
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 40
```

```
 Right Side Slope(h/v): 40
            Invert(ft): 12
       Control Elev(ft): 12
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir--------------------------------------------------------------
    Name: L-C170W1           From Node: N-C170
   Group: SM1                  To Node: N-C160
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C170-1


            Invert(ft): 11.88
       Control Elev(ft): 11.88
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir--------------------------------------------------------------
    Name: L-C190W1           From Node: N-C190
   Group: SM1                  To Node: N-B200
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 100
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 14.5
       Control Elev(ft): 14.5
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir--------------------------------------------------------------
    Name: L-C210W1           From Node: N-C210
   Group: SM1                  To Node: N-C200
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 50
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 9.7
       Control Elev(ft): 9.7
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6

   Cartpath

--------Class: Weir--------------------------------------------------------------
    Name: L-C230W1           From Node: N-C230
   Group: SM1                  To Node: N-C220
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 200
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 10.18
       Control Elev(ft): 10.18
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir--------------------------------------------------------------
    Name: L-C240W1           From Node: N-C240
   Group: SM1                  To Node: N-C230
```

```
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-C240-1


           Invert(ft): 10.91
      Control Elev(ft): 10.91
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-C260W1           From Node: N-C260
   Group: SM1                  To Node: N-C250
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 26
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
           Invert(ft): 7.85
      Control Elev(ft): 7.85
  StructOpeningDim(ft): 2           TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-C260W2           From Node: N-C260
   Group: SM1                  To Node: N-C250
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
           Invert(ft): 11
      Control Elev(ft): 11
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-C270W1           From Node: N-C270
   Group: SM1                  To Node: N-B190
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 50
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
           Invert(ft): 14
      Control Elev(ft): 14
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6



--------Class: Weir-------------------------------------------------------------
    Name: L-D020W1           From Node: N-D020
   Group: SM2                  To Node: N-D010
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
           Invert(ft): 9
      Control Elev(ft): 9
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6
```

```
--------Class: Weir----------------------------------------------------------
    Name: L-D030W1           From Node: N-D030
   Group: SM2                  To Node: N-D020
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 13
  Left Side Slope(h/v): 1.5
 Right Side Slope(h/v): 1.5
            Invert(ft): 5.6
      Control Elev(ft): 5.6
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir----------------------------------------------------------
    Name: L-D030W2           From Node: N-D030
   Group: SM2                  To Node: N-D120
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 9
  Left Side Slope(h/v): 2
 Right Side Slope(h/v): 2
            Invert(ft): 7.3
      Control Elev(ft): 7.3
  StructOpeningDim(ft): 999         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6


--------Class: Weir----------------------------------------------------------
    Name: L-D040W1           From Node: N-D040
   Group: SM2                  To Node: N-D030
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-D040-1


            Invert(ft): 9.11
      Control Elev(ft): 9.11
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir----------------------------------------------------------
    Name: L-D050W1           From Node: N-D050
   Group: SM2                  To Node: N-D040
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 20
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 10
      Control Elev(ft): 10
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6


--------Class: Weir----------------------------------------------------------
    Name: L-D060W1           From Node: N-D060
   Group: SM2                  To Node: N-D050
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 50
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 16
```

```
      Control Elev(ft): 16
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D080W1           From Node: N-D080
   Group: SM2                  To Node: N-D070
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 8
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
           Invert(ft): 14.2
      Control Elev(ft): 14.2
  StructOpeningDim(ft): 999         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D080W2           From Node: N-D080
   Group: SM2                  To Node: N-D070
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 50
  Left Side Slope(h/v): 100
 Right Side Slope(h/v): 100
           Invert(ft): 15.2
      Control Elev(ft): 15.2
  StructOpeningDim(ft): 999         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D090W1           From Node: N-D090
   Group: SM2                  To Node: N-D030
   Count: 1

 Type: Fread    Flow: Both       Geometry: Irregular

             XSec Name: X-D090-1


           Invert(ft): 10.49
      Control Elev(ft): 10.49
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D110W1           From Node: N-D110
   Group: SM2                  To Node: N-D100
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 5
  Left Side Slope(h/v): 2.5
 Right Side Slope(h/v): 2.5
           Invert(ft): 9
      Control Elev(ft): 9
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D160W1           From Node: N-D160
   Group: SM2                  To Node: N-D150
   Count: 1
```

```
 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 10.6
      Control Elev(ft): 10.6
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D160W2           From Node: N-D160
   Group: SM2                  To Node: N-D150
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 20
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 12.1
      Control Elev(ft): 12.1
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D170W1           From Node: N-D170
   Group: SM2                  To Node: N-D160
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 100
 Right Side Slope(h/v): 100
            Invert(ft): 10.8
      Control Elev(ft): 10.8
  StructOpeningDim(ft): 9999        TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-D190W1           From Node: N-D190
   Group: SM2                  To Node: N-D110
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 50
 Right Side Slope(h/v): 50
            Invert(ft): 11.5
      Control Elev(ft): 11.5
  StructOpeningDim(ft): 999         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 2.8
Orifice Discharge Coef: 0.6


--------Class: Weir-------------------------------------------------------------
    Name: L-E020W1           From Node: N-E020
   Group: VG                   To Node: N-E010
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 10
  Left Side Slope(h/v): 4
 Right Side Slope(h/v): 4
            Invert(ft): 9.2
      Control Elev(ft): 9.2
  StructOpeningDim(ft): 1.5         TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS R024       MODIFIED
```

```
--------Class: Weir----------------------------------------------------------
    Name: L-E020W2           From Node: N-E020
   Group: VG                   To Node: N-E010
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Rectangular


              Span(in): 14
              Rise(in): 14
            Invert(ft): 8
      Control Elev(ft): 8
                                      TABLE
       Bottom Clip(in): 0
          Top Clip(in): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS R024A     MODIFIED

--------Class: Weir----------------------------------------------------------
    Name: L-E020W3           From Node: N-E020
   Group: VG                   To Node: N-E010
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 10.7
      Control Elev(ft): 10.7
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING

--------Class: Weir----------------------------------------------------------
    Name: L-E200W1           From Node: N-E200
   Group: VG                   To Node: N-E010
   Count: 1

 Type: Mavis    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 1
  Left Side Slope(h/v): 3
 Right Side Slope(h/v): 3
            Invert(ft): 8
      Control Elev(ft): 8
  StructOpeningDim(ft): 3           TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   PS R017A

--------Class: Weir----------------------------------------------------------
    Name: L-E200W2           From Node: N-E200
   Group: VG                   To Node: N-E010
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 11
      Control Elev(ft): 11
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING

--------Class: Weir----------------------------------------------------------
    Name: L-E270W1           From Node: N-E270
   Group: VG                   To Node: N-E260
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 3
  Left Side Slope(h/v): 1.5
 Right Side Slope(h/v): 1.5
            Invert(ft): 10.3
      Control Elev(ft): 10.3
  StructOpeningDim(ft): 1.5         TABLE
```

```
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING  #1

--------Class: Weir-----------------------------------------------------------
    Name: L-E270W2           From Node: N-E270
   Group: VG                   To Node: N-E260
   Count: 1

 Type: Fread    Flow: Both       Geometry: Trapezoidal

      Bottom Width(ft): 30
  Left Side Slope(h/v): 0
 Right Side Slope(h/v): 0
            Invert(ft): 11.8
      Control Elev(ft): 11.8
  StructOpeningDim(ft): 99999       TABLE
       Bottom Clip(ft): 0
          Top Clip(ft): 0
   Weir Discharge Coef: 3.2
Orifice Discharge Coef: 0.6

   OVERTOPPING  #2

--------Class: Drop Structure-------------------------------------------------
     Name: L-G110D1      From Node: N-G110        Length(ft): 381
    Group: BL              To Node: N-G100             Count: 1

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
               Span(in): 36                   36
               Rise(in): 36                   36
             Invert(ft): 9                    8.5
            Manning's N: 0.012                0.012
           Top Clip(in): 0                    0
        Bottom Clip(in): 0                    0

     Entrance Loss Coef: 0                     Flow: Both
         Exit Loss Coef: 0                 Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end projecting                  1     3
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end projecting                  1     3

              PS L-D2
 *** Weir 1 of 1 for Drop Structure L-G110D1 ***              [TABLE]
   Count: 1                    Bottom Clip(in): 0
    Type: Horiz                   Top Clip(in): 0
    Flow: Both             Weir Discharge Coef: 3.2
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 36                         Invert(ft): 11
         Rise(in): 100                  Control Elev(ft): 11


--------Class: Drop Structure-------------------------------------------------
     Name: L-B040D1      From Node: N-B040        Length(ft): 40
    Group: HH              To Node: N-B030             Count: 1

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
               Span(in): 30                   30
               Rise(in): 30                   30
             Invert(ft): 2.1                  2.1
            Manning's N: 0.025                0.025
           Top Clip(in): 0                    0
        Bottom Clip(in): 0                    0

     Entrance Loss Coef: 0.5                   Flow: Both
         Exit Loss Coef: 1                 Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular CMP: Headwall                                    2     1
      Downstream FHWA Inlet Edge Description:
      Circular CMP: Projecting                                  2     3


 *** Weir 1 of 1 for Drop Structure L-B040D1 ***              [TABLE]
   Count: 1                    Bottom Clip(in): 15
    Type: Horiz                   Top Clip(in): 0
    Flow: Both             Weir Discharge Coef: 3.3
Geometry: Circular     Orifice Discharge Coef: 0.6

         Span(in): 30                         Invert(ft): 8
         Rise(in): 30                   Control Elev(ft): 8


--------Class: Drop Structure-------------------------------------------------
```

```
     Name: L-B100D1      From Node: N-B100        Length(ft): 70
    Group: HH              To Node: N-B090             Count: 1

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
              Span(in): 36                   36
              Rise(in): 36                   36
            Invert(ft): 3.51                 2.87
          Manning's N: 0.012                 0.012
           Top Clip(in): 0                   0
        Bottom Clip(in): 0                   0

     Entrance Loss Coef: 0.2                   Flow: Both
         Exit Loss Coef: 1                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end projecting                  1     3


 *** Weir 1 of 2 for Drop Structure L-B100D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 0
    Type: Horiz                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.3
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 48                        Invert(ft): 6.5
         Rise(in): 42                  Control Elev(ft): 6.5


 *** Weir 2 of 2 for Drop Structure L-B100D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 0
    Type: Mavis                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.3
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 32                        Invert(ft): 6.25
         Rise(in): 3                   Control Elev(ft): 6.25


--------Class: Drop Structure-----------------------------------------------------
     Name: L-B140D1      From Node: N-B140        Length(ft): 65
    Group: HH              To Node: N-B130             Count: 3

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
              Span(in): 36                   36
              Rise(in): 36                   36
            Invert(ft): 1.5                  2.3
          Manning's N: 0.012                 0.012
           Top Clip(in): 0                   0
        Bottom Clip(in): 0                   0

     Entrance Loss Coef: 0.2                   Flow: Both
         Exit Loss Coef: 1                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end projecting                  1     3


 *** Weir 1 of 1 for Drop Structure L-B140D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 0
    Type: Mavis                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.3
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 178                       Invert(ft): 4
         Rise(in): 1000                Control Elev(ft): 4


--------Class: Drop Structure-----------------------------------------------------
     Name: L-B230D1      From Node: N-B230        Length(ft): 40
    Group: HH              To Node: N-B220             Count: 1

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
              Span(in): 30                   30
              Rise(in): 30                   30
            Invert(ft): 4.7                  4.6
          Manning's N: 0.025                 0.025
           Top Clip(in): 0                   0
        Bottom Clip(in): 0                   0

     Entrance Loss Coef: 0                     Flow: Both
         Exit Loss Coef: 0                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular CMP: Headwall                                    2     1
```

```
      Downstream FHWA Inlet Edge Description:
      Circular CMP: Projecting                                  2     3


 *** Weir 1 of 1 for Drop Structure L-B230D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 24
    Type: Horiz                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.3
Geometry: Circular     Orifice Discharge Coef: 0.6

         Span(in): 48                        Invert(ft): 9
         Rise(in): 48                  Control Elev(ft): 9


--------Class: Drop Structure-----------------------------------------------------
     Name: L-F010D1      From Node: N-F010        Length(ft): 150
    Group: MC              To Node: N-B160             Count: 2

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                          UPSTREAM             DOWNSTREAM
            Span(in): 42                  42
            Rise(in): 42                  42
          Invert(ft): 3.5                 3
         Manning's N: 0.012               0.012
        Top Clip(in): 0                   0
     Bottom Clip(in): 0                   0

     Entrance Loss Coef: 0.5                  Flow: Both
         Exit Loss Coef: 0                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end w/ headwall                 1     2
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end w/ headwall                 1     2

             PS DS-BB1
 *** Weir 1 of 2 for Drop Structure L-F010D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 0
    Type: Horiz                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.2
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 108                       Invert(ft): 12.5
         Rise(in): 48                  Control Elev(ft): 12.5


 *** Weir 2 of 2 for Drop Structure L-F010D1 ***              [TABLE]
   Count: 1                   Bottom Clip(ft): 0
    Type: Horiz                  Top Clip(ft): 0
    Flow: Both            Weir Discharge Coef: 3.2
Geometry: Irregular    Orifice Discharge Coef: 0.6

    Cross Section: X-F010-1            Control Elev(ft):  7
       Invert(ft): 7               StructOpeningDim(ft):  5.5


--------Class: Drop Structure-----------------------------------------------------
     Name: L-E040D1      From Node: N-E040        Length(ft): 70
    Group: VG              To Node: N-E020             Count: 2

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                          UPSTREAM             DOWNSTREAM
            Span(in): 54                  54
            Rise(in): 54                  54
          Invert(ft): 6                   5.15
         Manning's N: 0.013               0.013
        Top Clip(in): 0                   0
     Bottom Clip(in): 0                   0

     Entrance Loss Coef: 0                    Flow: Both
         Exit Loss Coef: 0                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1

             PS R022
 *** Weir 1 of 1 for Drop Structure L-E040D1 ***              [TABLE]
   Count: 1                   Bottom Clip(in): 0
    Type: Horiz                  Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.2
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 96                        Invert(ft): 9
         Rise(in): 36                  Control Elev(ft): 9


--------Class: Drop Structure-----------------------------------------------------
     Name: L-E070D1      From Node: N-E070        Length(ft): 462
    Group: VG              To Node: N-E040             Count: 2
```

```
    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
                Span(in): 48                   48
                Rise(in): 48                   48
              Invert(ft): 8                    7
             Manning's N: 0.013                0.013
            Top Clip(in): 0                    0
         Bottom Clip(in): 0                    0

     Entrance Loss Coef: 0.5                    Flow: Both
         Exit Loss Coef: 0.2                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1

               PS R019
 *** Weir 1 of 1 for Drop Structure L-E070D1 ***              [TABLE]
   Count: 1                    Bottom Clip(ft): 0
    Type: Horiz                   Top Clip(ft): 0
    Flow: Both            Weir Discharge Coef: 3.2
Geometry: Trapezoidal  Orifice Discharge Coef: 0.6

     Bottom Width(ft): 1                       Invert(ft): 10
 Left Side Slope(h/v): 1                  Control Elev(ft): 10
Right Side Slope(h/v): 1              StructOpeningDim(ft): 9999

--------Class: Drop Structure-----------------------------------------------------
     Name: L-E220D1      From Node: N-E220        Length(ft): 35
    Group: VG              To Node: N-E210             Count: 2

    Outlet Cntrl Spec: Use dc or tw     Inlet Cntrl Spec: Use dn
    Upstream Geometry: Circular      Downstream Geometry: Circular
                           UPSTREAM             DOWNSTREAM
                Span(in): 54                   54
                Rise(in): 54                   54
              Invert(ft): 6                    4
             Manning's N: 0.013                0.013
            Top Clip(in): 0                    0
         Bottom Clip(in): 0                    0

     Entrance Loss Coef: 0.5                    Flow: Both
         Exit Loss Coef: 0.2                Equation: Aver Conveyance

      Upstream FHWA Inlet Edge Description:
      Circular Concrete: Square edge w/ headwall                1     1
      Downstream FHWA Inlet Edge Description:
      Circular Concrete: Groove end projecting                  1     3

               PS R016
 *** Weir 1 of 1 for Drop Structure L-E220D1 ***              [TABLE]
   Count: 1                    Bottom Clip(in): 0
    Type: Horiz                   Top Clip(in): 0
    Flow: Both            Weir Discharge Coef: 3.2
Geometry: Rectangular  Orifice Discharge Coef: 0.6

         Span(in): 96                      Invert(ft): 10.5
         Rise(in): 54                 Control Elev(ft): 10.5


--------Class: Bridge-------------------------------------------------------------
  Name: L-B020B1         From Node: N-B020             Flow: Both
 Group: HH                 To Node: N-B010        Run WSPRO: No

  XSEC TYPE     NAME     INV(ft)   STAT(ft)  SKEW(deg) EXPAN.    CONTRAC.
  Exit          X-B010-1 1.5       0         0         0.5       0
  Full Valley   X-B010-1 1.5       50        0         0.5       0
  Approach      X-B080-1 1.5       130       0         0.5       0
  Roadway       X-B020-2 9.9       50        0

            Road Surface Material: Paved
    Road Embankment Top Width(ft): 30
     Road Unsubmerged Weir Q Coef: 0

     Comment: BEES FERRY

RATING CURVE CONTROL
TW(ft)       QMin(cfs)    QMax(cfs)    QInc(cfs)
2            0            400          50
2.5          0            400          50
3.5          0            400          50
4            50           450          50
4.5          50           500          50
5            50           600          50
5.5          50           650          50
6            50           650          50
6.5          50           700          50
7            50           750          50
7.5          50           800          50
8            50           850          50
8.3          50           1200         50
9            50           1200         50
```

```
10          100          1300         100
11          100          1300         100
 *** Opening 1 of 1 for Bridge L-B020B1 ***

      Opening Type: Slp Embank/Slp Spillthrough Abut

              XSec Name: X-B020-1         Spur Dike Type: Elliptical
            Invert(ft): 1.5                    XSec Name:
           Station(ft): 50                   Invert(ft): 0
             Skew(deg): 0                  Station(ft): 0
                 Expan: 0.5                  Skew(deg): 0
               Contrac: 0                        Expan: 0.5
       Total Width(ft): 30                     Contrac: 0
      Orifice Dis Coef: 0.6
     Low Chord Elev(ft): 8.3
 Embankment Sd Slp(h/v): 2
    Embankment Elev(ft): 9.9



PIER DATA
Elev(ft)     Width(ft)
2            2
8.3          2
 *** WSPRO Output for Bridge L-B020B1 ***
TW(ft)       HW(ft)       Q(cfs)       TW(ft)       HW(ft)       Q(cfs)
2            2            0            7            8.2234       500
2            4.2257       50           7            8.4401       550
2            5.0626       100          7            8.684        600
2            5.7296       150          7            8.9527       650
2            6.2679       200          7            9.2467       700
2            6.7844       250          7            9.5676       750
2            7.2892       300          7.5          7.5092       50
2            7.7887       350          7.5          7.5369       100
2            8.1278       400          7.5          7.583        150
2.5          2.5          0            7.5          7.6474       200
2.5          4.2255       50           7.5          7.7297       250
2.5          5.062        100          7.5          7.8291       300
2.5          5.731        150          7.5          7.9447       350
2.5          6.2678       200          7.5          8.0716       400
2.5          6.7844       250          7.5          8.2135       450
2.5          7.2892       300          7.5          8.3684       500
2.5          7.7887       350          7.5          8.5377       550
2.5          8.1278       400          7.5          8.7234       600
3.5          3.5          0            7.5          8.9256       650
3.5          3.8996       50           7.5          9.1441       700
3.5          5.0615       100          7.5          9.3798       750
3.5          5.7301       150          7.5          9.6342       800
3.5          6.2677       200          8            8.0071       50
3.5          6.7841       250          8            8.0282       100
3.5          7.289        300          8            8.0632       150
3.5          7.7886       350          8            8.1115       200
3.5          8.1363       400          8            8.1727       250
4            4.171        50           8            8.2463       300
4            4.6951       100          8            8.3319       350
4            5.731        150          8            8.4303       400
4            6.2684       200          8            8.5399       450
4            6.7837       250          8            8.6612       500
4            7.2896       300          8            8.7947       550
4            7.7883       350          8            8.9397       600
4            8.1286       400          8            9.0965       650
4            8.4342       450          8            9.2653       700
4.5          4.5847       50           8            9.4465       750
4.5          4.8419       100          8            9.6406       800
4.5          5.3103       150          8            9.8485       850
4.5          6.0864       200          8.3          8.3049       50
4.5          6.7833       250          8.3          8.3198       100
4.5          7.2896       300          8.3          8.3428       150
4.5          7.7861       350          8.3          8.379        200
4.5          8.1302       400          8.3          8.4186       250
4.5          8.4315       450          8.3          8.4713       300
4.5          8.7114       500          8.3          8.524        350
5            5.0485       50           8.3          8.5899       400
5            5.1963       100          8.3          8.6689       450
5            5.4518       150          8.3          8.748        500
5            5.8341       200          8.3          8.8271       550
5            6.388        250          8.3          8.9324       600
5            7.2866       300          8.3          9.0378       650
5            7.7853       350          8.3          9.1431       700
5            8.1351       400          8.3          9.2486       750
5            8.4287       450          8.3          9.354        800
5            8.7101       500          8.3          9.4595       850
5            9.0119       550          8.3          9.5649       900
5            9.2869       600          8.3          9.7227       950
5.5          5.5305       50           8.3          9.8804       1000
5.5          5.6228       100          8.3          9.986        1050
5.5          5.7794       150          8.3          10.0915      1100
5.5          6.0067       200          8.3          10.1448      1150
5.5          6.3152       250          8.3          10.1981      1200
5.5          6.7261       300          9            9.0041       50
5.5          7.3522       350          9            9.0162       100
5.5          8.1317       400          9            9.0354       150
5.5          8.4225       450          9            9.0648       200
5.5          8.708        500          9            9.1002       250
```

```
5.5          9.01         550          9            9.1414       300
5.5          9.2854       600          9            9.1886       350
5.5          9.5704       650          9            9.2475       400
6            6.022        50           9            9.3065       450
6            6.088        100          9            9.3772       500
6            6.1982       150          9            9.4714       550
6            6.3528       200          9            9.5421       600
6            6.553        250          9            9.6129       650
6            6.8025       300          9            9.754        700
6            7.1315       350          9            9.8483       750
6            7.5864       400          9            9.9426       800
6            8.0139       450          9            10.0369      850
6            8.4554       500          9            10.0844      900
6            9.0115       550          9            10.1319      950
6            9.2841       600          9            10.1794      1000
6            9.5695       650          9            10.227       1050
6.5          6.5163       50           9            10.2512      1100
6.5          6.5652       100          9            10.2988      1150
6.5          6.6464       150          9            10.3231      1200
6.5          6.7595       200          10           10.0122      100
6.5          6.9045       250          10           10.049       200
6.5          7.0939       300          10           10.098       300
6.5          7.3195       350          10           10.1568      400
6.5          7.6194       400          10           10.2059      500
6.5          7.8997       450          10           10.2649      600
6.5          8.1778       500          10           10.3141      700
6.5          8.4806       550          10           10.3634      800
6.5          8.8304       600          10           10.4127      900
6.5          9.2283       650          10           10.4524      1000
6.5          9.6808       700          10           10.4921      1100
7            7.0123       50           10           10.5318      1200
7            7.0494       100          10           10.5716      1300
7            7.1115       150          11           11.0001      700
7            7.199        200          11           11.0039      800
7            7.3119       250          11           11.0078      900
7            7.4495       300          11           11.0117      1000
7            7.6367       350          11           11.0176      1100
7            7.8218       400          11           11.0215      1200
7            8.0194       450          11           11.0254      1300
--------Class: Bridge----------------------------------------------------------
  Name: L-A030B1          From Node: N-A030            Flow: Both
 Group: RR                  To Node: N-A020        Run WSPRO: No

  XSEC TYPE     NAME     INV(ft)   STAT(ft)  SKEW(deg) EXPAN.    CONTRAC.
  Exit          X-A020-1 -4.2      0         0         0.5       0.3
  Full Valley   X-A020-1 -4.2      100       0         0.5       0.3
  Approach      X-A040-2 -4.2      230       0         0.5       0.3
  Roadway       X-A030-2 6.6       100       0

           Road Surface Material: Paved
    Road Embankment Top Width(ft): 30
     Road Unsubmerged Weir Q Coef: 0

     Comment: SC 61

RATING CURVE CONTROL
TW(ft)       QMin(cfs)    QMax(cfs)    QInc(cfs)
-1.2         0            1600         200
0            0            1600         200
2            0            1600         200
3            0            1600         200
4            0            1600         200
5            0            1600         200
6            0            1600         200
7            200          1800         200
8            200          1800         200
 *** Opening 1 of 1 for Bridge L-A030B1 ***

      Opening Type: Slp Embank/Slp Spillthrough Abut

              XSec Name: X-A030-1         Spur Dike Type: Elliptical
            Invert(ft): -4.2                  XSec Name:
           Station(ft): 100                 Invert(ft): 0
             Skew(deg): 0                  Station(ft): 0
                 Expan: 0.5                  Skew(deg): 0
               Contrac: 0                        Expan: 0.5
       Total Width(ft): 30                     Contrac: 0
      Orifice Dis Coef: 0.6
    Low Chord Elev(ft): 6.95
 Embankment Sd Slp(h/v): 2
   Embankment Elev(ft): 6.6



PIER DATA
Elev(ft)     Width(ft)
-4           3
7            3
 *** WSPRO Output for Bridge L-A030B1 ***
TW(ft)       HW(ft)       Q(cfs)       TW(ft)       HW(ft)       Q(cfs)
-1.2         -1.2         0            4            4.2203       600
-1.2         -0.7207      200          4            4.3671       800
-1.2         0.3909       400          4            4.5403       1000
-1.2         1.5279       600          4            4.7244       1200
```

```
    -1.2         2.9767       800          4            4.9093       1400
    -1.2         3.7814       1000         4            5.0985       1600
    -1.2         4.5323       1200         5            5            0
    -1.2         5.1741       1400         5            5.0127       200
    -1.2         5.0792       1600         5            5.0499       400
    0            0            0            5            5.1096       600
    0            0.2021       200          5            5.1887       800
    0            0.7619       400          5            5.284        1000
    0            1.5501       600          5            5.3955       1200
    0            2.9775       800          5            5.5174       1400
    0            3.7814       1000         5            5.6484       1600
    0            4.5323       1200         6            6            0
    0            5.1741       1400         6            6.0066       200
    0            5.0792       1600         6            6.0264       400
    2            2            0            6            6.059        600
    2            2.0688       200          6            6.1042       800
    2            2.2726       400          6            6.1616       1000
    2            2.9812       600          6            6.2305       1200
    2            3.4455       800          6            6.3102       1400
    2            3.9903       1000         6            6.3997       1600
    2            4.5805       1200         7            7.0095       400
    2            5.1628       1400         7            7.0225       600
    2            5.0792       1600         7            7.0414       800
    3            3            0            7            7.0655       1000
    3            3.0851       200          7            7.0931       1200
    3            3.3139       400          7            7.1243       1400
    3            3.6064       600          7            7.1655       1600
    3            3.9654       800          7            7.2069       1800
    3            4.4019       1000         8            8.0014       800
    3            4.8831       1200         8            8.0054       1000
    3            5.3403       1400         8            8.0099       1200
    3            5.0792       1600         8            8.0156       1400
    4            4            0            8            8.0222       1600
    4            4.0268       200          8            8.0288       1800
    4            4.1032       400
    --------Class: Simulation----------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\2YR\2YR
 Execution: Both
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 24
Drop Structure Optimizer: 10               Rain Amount(in): 4.6
     Sim Start Time(hrs): 0                  Rainfall File: SCSIII
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                 To Hour:   PInc(min):
        0          60                         9          15
        9          30                         20         5
        12         5                          24         15
        16         1                          48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS-----------------------------------------------------
+ BASE      [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1       [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC        [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation----------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\10YR\10YR
 Execution: Both
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 24
Drop Structure Optimizer: 10               Rain Amount(in): 6.8
     Sim Start Time(hrs): 0                  Rainfall File: SCSIII
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                 To Hour:   PInc(min):
        0          60                         9          15
        9          30                         20         5
        12         5                          24         15
        16         1                          48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS-----------------------------------------------------
+ BASE      [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1       [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC        [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation----------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\25YR\25YR
 Execution: Both
```

```
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1            Override Defaults: Yes
     Time Step Optimizer: 0.1               Storm Dur(hrs): 24
Drop Structure Optimizer: 10              Rain Amount(in): 7.8
     Sim Start Time(hrs): 0                 Rainfall File: SCSIII
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        0          60                        9          15
        9          30                        20         5
        12         5                         24         15
        16         1                         48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS-----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\50YR\50YR
 Execution: Both
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1            Override Defaults: Yes
     Time Step Optimizer: 0.1               Storm Dur(hrs): 24
Drop Structure Optimizer: 10              Rain Amount(in): 8.8
     Sim Start Time(hrs): 0                 Rainfall File: SCSIII
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        0          60                        9          15
        9          30                        20         5
        12         5                         24         15
        16         1                         48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS-----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\100YR\100Y
 Execution: Both
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1            Override Defaults: Yes
     Time Step Optimizer: 0.1               Storm Dur(hrs): 24
Drop Structure Optimizer: 10              Rain Amount(in): 10
     Sim Start Time(hrs): 0                 Rainfall File: SCSIII
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        0          60                        9          15
        9          30                        20         5
        12         5                         24         15
        16         1                         48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS-----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\500YR\500Y
 Execution: Both
    Header: Church Creek Watershed
            Existing Conditions
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1            Override Defaults: Yes
     Time Step Optimizer: 0.1               Storm Dur(hrs): 24
Drop Structure Optimizer: 10              Rain Amount(in): 11.5
     Sim Start Time(hrs): 0                 Rainfall File: SCSIII
       Sim End Time(hrs): 72
```

```
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        0          60                        9          15
        9          30                        20         5
        12         5                         24         15
        16         1                         48         60
        20         5
        24         15
        48         30
        96         60
---------GROUP SELECTIONS----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\21SEPT98\2
 Execution: Both
    Header: Church Creek Watershed
            Storm Event on September 21, 1998
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 24
Drop Structure Optimizer: 10              Rain Amount(in): 10.52
     Sim Start Time(hrs): 0                 Rainfall File: 21SEPT98
       Sim End Time(hrs): 60
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        12         30                        12         15
        20         5                         30         5
        30         1                         48         15
        36         5
        48         30
---------GROUP SELECTIONS----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\16FEB98\16
 Execution: Both
    Header: Church Creek Watershed
            Storm Event on February 16, 1998
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 48
Drop Structure Optimizer: 10              Rain Amount(in): 5.92
     Sim Start Time(hrs): 0                 Rainfall File: 16FEB98
       Sim End Time(hrs): 60
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        12         30                        12         15
        30         5                         32         5
        32         1                         48         15
        48         30
---------GROUP SELECTIONS----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\27SEPT99\2
 Execution: Both
    Header: Church Creek Watershed
            Storm Event on September 27, 1999
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 72
Drop Structure Optimizer: 10              Rain Amount(in): 5.98
     Sim Start Time(hrs): 0                 Rainfall File: 27SEPT99
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                To Hour:   PInc(min):
        20         60                        20         15
        48         5                         48         5
        60         15                        60         15
        65         5                         65         5
        72         30                        72         15
---------GROUP SELECTIONS----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\03OCT94\03
 Execution: Both
    Header: Church Creek Watershed
            Storm Event on October 3, 1994
```

```
           $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 72
Drop Structure Optimizer: 10              Rain Amount(in): 5.91
     Sim Start Time(hrs): 0                 Rainfall File: 03OCT94
       Sim End Time(hrs): 72
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                 To Hour:   PInc(min):
        8          60                         8          60
        50         5                          50         5
        72         15                         72         15
---------GROUP SELECTIONS----------------------------------------------------
- BASE     [ NO RUN ]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
    --------Class: Simulation-------------------------------------------------------
 C:\ICPR2\PROJECTS\CHURCH\EXIST\27JULY01\2
 Execution: Both
    Header: Church Creek Watershed
            Storm Event on July 27, 2001
            $$DATE$$
---------HYDRAULICS-----------------------------HYDROLOGY--------------------
        Max Delta Z (ft): 0.005
          Delta Z Factor: 0.1           Override Defaults: Yes
     Time Step Optimizer: 0.1              Storm Dur(hrs): 32
Drop Structure Optimizer: 10              Rain Amount(in): 4.67
     Sim Start Time(hrs): 0                 Rainfall File: 27JULY01
       Sim End Time(hrs): 32
      Min Calc Time(sec): 1
      Max Calc Time(sec): 30
        To Hour:   PInc(min):                 To Hour:   PInc(min):
        0          5                          0          5
        15         5                          15         5
        32         15                         32         15
---------GROUP SELECTIONS----------------------------------------------------
+ BASE     [09/17/01]       + RR       [09/17/01]       + HH       [09/17/01]
+ SM1      [09/17/01]       + SM2      [09/17/01]       + VG       [09/17/01]
+ MC       [09/17/01]       + BL       [09/17/01]
```