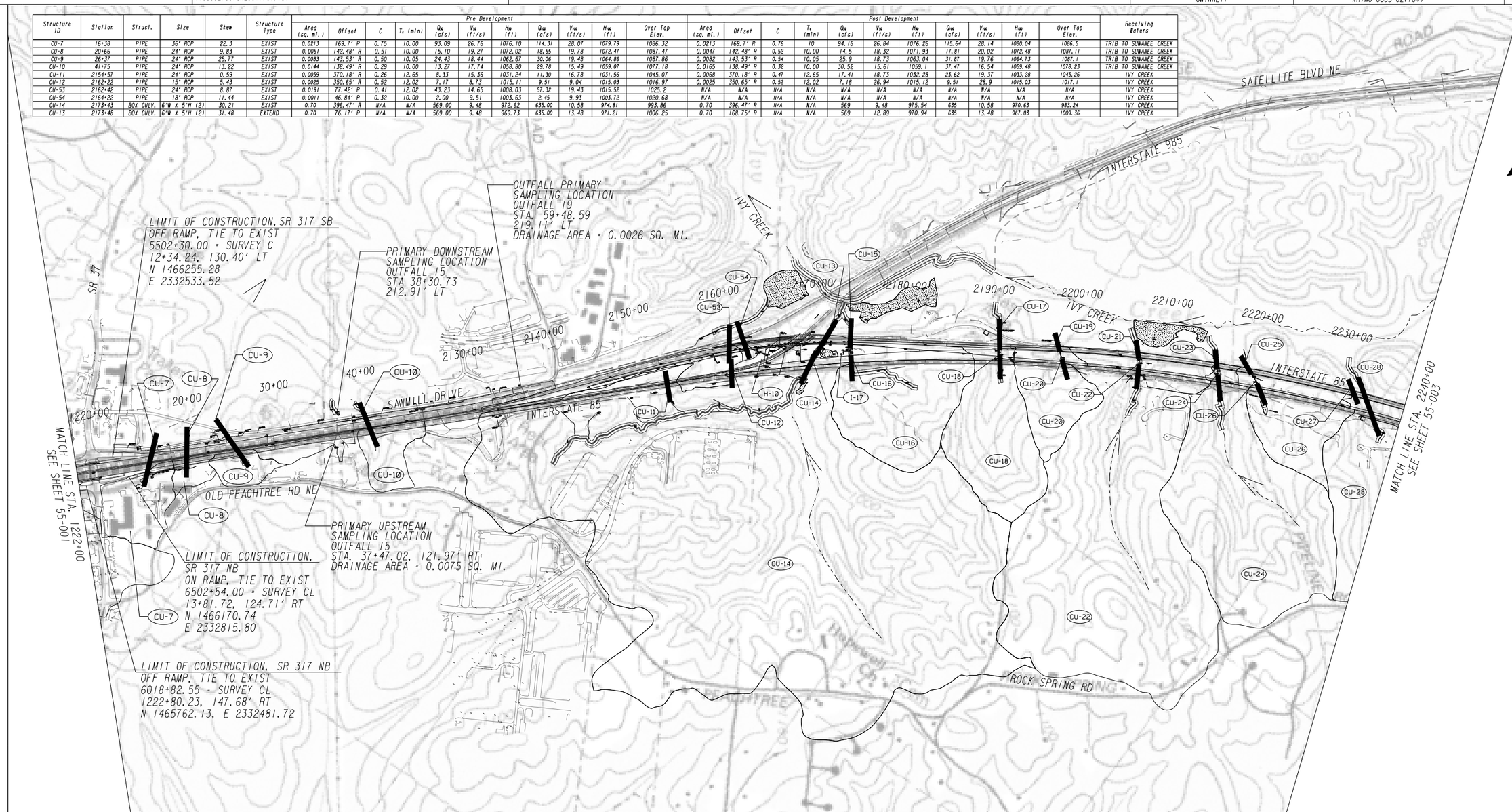
| Structure ID | Station | Struct. | Size | Skew | Structure Type | Pre Development Area (sq. mi.) | Pre Development Offset | Pre Development C | Pre Development $T_c$ (min) | Pre Development $Q_{25}$ (cfs) | Pre Development $V_{25}$ (ft/s) | Pre Development $H_{25}$ (ft) | Pre Development $Q_{100}$ (cfs) | Pre Development $V_{100}$ (ft/s) | Pre Development $H_{100}$ (ft) | Pre Development Over Top Elev. | Post Development Area (sq. mi.) | Post Development Offset | Post Development C | Post Development $T_c$ (min) | Post Development $Q_{25}$ (cfs) | Post Development $V_{25}$ (ft/s) | Post Development $H_{25}$ (ft) | Post Development $Q_{100}$ (cfs) | Post Development $V_{100}$ (ft/s) | Post Development $H_{100}$ (ft) | Post Development Over Top Elev. | Receiving Waters |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CU-7 | 16+38 | PIPE | 36" RCP | 22.3 | EXIST | 0.0213 | 169.7' R | 0.75 | 10.00 | 93.09 | 26.76 | 1076.10 | 114.31 | 28.07 | 1079.79 | 1086.32 | 0.0213 | 169.7' R | 0.76 | 10 | 94.18 | 26.84 | 1076.26 | 115.64 | 28.14 | 1080.04 | 1086.5 | TRIB TO SUWANEE CREEK |
| CU-8 | 20+66 | PIPE | 24" RCP | 9.83 | EXIST | 0.0051 | 142.48' R | 0.51 | 10.00 | 15.10 | 19.27 | 1072.02 | 18.55 | 19.78 | 1072.47 | 1087.47 | 0.0047 | 142.48' R | 0.52 | 10.00 | 14.5 | 18.32 | 1071.93 | 17.81 | 20.02 | 1072.48 | 1081.11 | TRIB TO SUWANEE CREEK |
| CU-9 | 26+17 | PIPE | 24" RCP | 25.77 | EXIST | 0.0083 | 143.53' R | 0.50 | 10.05 | 24.43 | 18.44 | 1062.67 | 30.06 | 19.48 | 1064.86 | 1087.86 | 0.0082 | 143.53' R | 0.54 | 10.05 | 25.9 | 18.73 | 1063.04 | 31.87 | 19.76 | 1064.73 | 1087.1 | TRIB TO SUWANEE CREEK |
| CU-10 | 41+75 | PIPE | 24" RCP | 13.22 | EXIST | 0.0144 | 138.49' R | 0.29 | 10.00 | 13.27 | 17.74 | 1058.80 | 29.78 | 15.49 | 1059.07 | 1077.18 | 0.0165 | 138.49' R | 0.32 | 10.00 | 30.52 | 15.61 | 1059.1 | 37.47 | 16.54 | 1059.48 | 1078.23 | TRIB TO SUWANEE CREEK |
| CU-11 | 2154+57 | PIPE | 24" RCP | 0.59 | EXIST | 0.0059 | 370.18' R | 0.26 | 12.65 | 8.33 | 15.36 | 1031.24 | 11.30 | 16.78 | 1031.56 | 1045.07 | 0.0068 | 370.18' R | 0.47 | 12.65 | 17.41 | 18.73 | 1032.28 | 23.62 | 19.37 | 1033.28 | 1045.26 | IVY CREEK |
| CU-12 | 2162+22 | PIPE | 15" RCP | 5.43 | EXIST | 0.0025 | 350.65' R | 0.52 | 12.02 | 7.17 | 8.73 | 1015.11 | 9.51 | 9.04 | 1015.03 | 1016.97 | 0.0025 | 350.65' R | 0.52 | 12.02 | 7.18 | 26.94 | 1015.12 | 9.51 | 28.9 | 1015.03 | 1017.1 | IVY CREEK |
| CU-53 | 2162+42 | PIPE | 24" RCP | 8.87 | EXIST | 0.0191 | 77.42' R | 0.41 | 12.02 | 43.23 | 14.65 | 1008.03 | 57.32 | 19.43 | 1015.52 | 1025.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | IVY CREEK |
| CU-54 | 2164+22 | PIPE | 18" RCP | 11.44 | EXIST | 0.0011 | 46.84' R | 0.32 | 10.00 | 2.00 | 9.51 | 1003.63 | 2.45 | 9.93 | 1003.72 | 1020.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | IVY CREEK |
| CU-14 | 2173+43 | BOX CULV. | 6'W X 5'H (2) | 30.21 | EXIST | 0.70 | 396.47' R | N/A | N/A | 569.00 | 9.48 | 972.62 | 635.00 | 10.58 | 974.81 | 993.86 | 0.70 | 396.47' R | N/A | N/A | 569 | 9.48 | 975.54 | 635 | 10.58 | 970.63 | 983.24 | IVY CREEK |
| CU-13 | 2173+48 | BOX CULV. | 6'W X 5'H (2) | 31.48 | EXTEND | 0.70 | 76.17' R | N/A | N/A | 569.00 | 9.48 | 969.73 | 635.00 | 13.48 | 971.21 | 1006.25 | 0.70 | 168.75' R | N/A | N/A | 569 | 12.89 | 970.94 | 635 | 13.48 | 967.03 | 1009.36 | IVY CREEK |




| Structure ID | Station | Struct. | Size | Skew | Structure Type | Pre Development Area (sq. mi.) | Pre Development Offset | Pre Development C | Pre Development $T_c$ (min) | Pre Development $Q_{25}$ (cfs) | Pre Development $V_{25}$ (ft/s) | Pre Development $H_{25}$ (ft) | Pre Development $Q_{100}$ (cfs) | Pre Development $V_{100}$ (ft/s) | Pre Development $H_{100}$ (ft) | Pre Development Over Top Elev. | Post Development Area (sq. mi.) | Post Development Offset | Post Development C | Post Development $T_c$ (min) | Post Development $Q_{25}$ (cfs) | Post Development $V_{25}$ (ft/s) | Post Development $H_{25}$ (ft) | Post Development $Q_{100}$ (cfs) | Post Development $V_{100}$ (ft/s) | Post Development $H_{100}$ (ft) | Post Development Over Top Elev. | Receiving Waters |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CU-16 | 2176+27 | PIPE | 42" RCP | 0.45 | EXTEND | 0.0642 | 89.41' R | 0.20 | 21.69 | 54.21 | 12.69 | 966.06 | 96.51 | 14.54 | 969.57 | 1008.93 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | IVY CREEK |
| CU-15 | 2176+38 | PIPE | 42" RCP | 0.29 | EXTEND | 0.0541 | 171.06' R | 0.19 | 21.69 | 44.33 | 4.91 | 962.17 | 78.91 | 24.83 | 984.52 | 1002.13 | 0.0541 | 171.06 | 0.19 | 21.69 | 44.33 | 4.61 | 982.08 | 78.91 | 8.2 | 984.43 | 1000.93 | IVY CREEK |
| CU-18 | 2193+28 | PIPE | 48" RCP | 3.29 | EXTEND | 0.0540 | 47.86' R | 0.17 | 13.33 | 48.42 | 17.12 | 993.82 | 66.83 | 17.82 | 994.53 | 1012.59 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | IVY CREEK |
| CU-17 | 2193+41 | PIIPE | 48" RCP | 2.61 | EXTEND | 0.0506 | 275.95' R | 0.16 | 13.33 | 43.66 | 17.87 | 1003.91 | 60.50 | 19.27 | 1004.57 | 1025.73 | 0.0506 | 275.95' R | 0.16 | 13.33 | 43.66 | 6.08 | 1003.92 | 60.5 | 6.63 | 1004.58 | 1025.49 | IVY CREEK |
| CU-19 | 2200+07 | PIPE | 36" RCP | 16.92 | EXTEND | 0.0284 | 34.46' R | 0.24 | 10.38 | 38.68 | 18.64 | 989.43 | 48.21 | 19.47 | 990.07 | 999.35 | 0.0284 | 67.29' R | 0.26 | 10.38 | 43.23 | 19.37 | 990.78 | 53.89 | 20.27 | 991.58 | 997.19 | IVY CREEK |
| CU-20 | 2200+62 | PIPE | 36" RCP | 20.68 | EXTEND | 0.0238 | 253.92' R | 0.22 | 10.38 | 30.19 | 16.37 | 1001.43 | 37.63 | 17.44 | 1001.95 | 1012.73 | 0.0238 | 253.92' R | 0.22 | 10.38 | 30.19 | 16.58 | 1001.43 | 37.63 | 17.7 | 1001.95 | 1011.92 | IVY CREEK |
| CU-21 | 2209+09 | BOX CULV. | 5'W X 6'H | 15.05 | EXTEND | 0.24 | 38.46' R | N/A | N/A | 238.00 | 7.93 | 972.66 | 264.00 | 8.80 | 973.05 | 984.32 | 0.24 | 58.92' R | N/A | N/A | 238 | 15.16 | 970.39 | 264 | 15.48 | 970.35 | 983.38 | IVY CREEK |
| CU-22 | 2209+29 | BOX CULV. | 5'W X 6'H | 0.05 | EXTEND | 0.24 | 288.38' R | N/A | N/A | 238.00 | 7.93 | 974.91 | 264.00 | 7.93 | 975.33 | 999.66 | 0.24 | 288.38' R | N/A | N/A | 238 | 8.8 | 972.8 | 264 | 7.93 | 973.38 | 998.21 | IVY CREEK |
| CU-23 | 2218+11 | BOX CULV. | 5'W X 5'H | 14.47 | EXTEND | 0.16 | 46.75' R | N/A | N/A | 180.00 | 16.03 | 976.28 | 180.00 | 16.03 | 976.81 | 996.51 | 0.16 | 56.95' R | N/A | N/A | 159 | 16.16 | 976.44 | 180 | 15.73 | 976.97 | 996.06 | IVY CREEK |
| CU-24 | 2218+60 | BOX CULV. | 5'W X 5'H | 14.58 | EXTEND | 0.16 | 297.73' R | N/A | N/A | 180.00 | 17.98 | 981.20 | 180.00 | 7.20 | 981.73 | 1009.81 | 0.16 | 297.73' R | N/A | N/A | 159 | 6.36 | 981.2 | 180 | 7.2 | 981.73 | 1009.37 | IVY CREEK |
| CU-25 | 2221+88 | PIPE | 42" RCP | 40.62 | EXTEND | 0.0370 | 36.63' R | 0.27 | 13.57 | 52.03 | 18.41 | 989.46 | 72.87 | 19.72 | 990.56 | 1002.75 | 0.0370 | 73.11' R | 0.31 | 13.57 | 59.49 | 19.32 | 991.23 | 83.32 | 20.79 | 992.65 | 1002.8 | IVY CREEK |
| CU-26 | 2223+34 | PIPE | 42" RCP | 32.5 | EXTEND | 0.0276 | 264.89' R | 0.24 | 13.57 | 35.34 | 17.52 | 1003.63 | 49.50 | 19.19 | 1004.34 | 1016.82 | 0.0276 | 264.89' R | 0.24 | 13.57 | 35.34 | 17.84 | 1003.63 | 49.5 | 19.31 | 1004.34 | 1016.73 | IVY CREEK |
| CU-27 | 2234+05 | PIPE | 24" RCP | 35.68 | EXTEND | 0.0113 | 26.64' R | 0.34 | 21.06 | 16.94 | 11.87 | 1018.26 | 29.66 | 29.66 | 1020.63 | 1022.67 | 0.0113 | 61.12' R | 0.49 | 21.06 | 24.53 | 13.18 | 1020.72 | 42.97 | 14.05 | 1022.59 | 1023.02 | IVY CREEK |
| CU-28 | 2235+35 | BOX CULV. | 5'W X 4'H | 34.52 | EXIST | 0.0633 | 312.79' R | N/A | N/A | 97.00 | 14.37 | 992.73 | 100.00 | 14.69 | 992.81 | 1035.34 | 0.0633 | 312.79' R | N/A | N/A | 97 | 14.37 | 992.73 | 100 | 14.69 | 992.81 | 1035.8 | IVY CREEK |

ARCADIS Design & Consultancy for natural and built assets

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**RELEASED FOR CONSTRUCTION 06/22/2016**

REVISION DATES
06/15/2016

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE DELIVERY

WATERSHED MAP
SITE MONITORING PLAN
PROJECT: I-85 NORTH EXPRESS LANE EXTENSION
COUNTY: GWINNETT

DRAWING No. 55-002