

| OUTFALL | TOTAL DRAINAGE AREA | DISTURBED AREA | REQUIRED SEDIMENT STORAGE | TOTAL STORAGE PROVIDED | SWALES | INLET SEDIMENT TRAPS (2.11 CY EACH) | | BAFFLE BOX (3.63 CY EACH) | | SILT FENCE (.3 CY/LF) | | CHECK DAMS | | | | | | | | |
|---|---------------------|----------------|---------------------------|------------------------|--------|-------------------------------------|-------|---------------------------|-------|-----------------------|-------|------------|-----------|--------------|---|------|-----|-------|-----|--|
| | ACRES | ACRES | CY | CY | CY | # | TOTAL | # | TOTAL | LF | TOTAL | # DEVICES | VOLUME EA | VOLUME TOTAL | W | SXR | SXL | SP | L | |
| A42 18" PIPE | 0.550 | 0.278 | 36.85 | 4.22 | 0 | 2 | 4.22 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| A19 42" PIPE | 3.790 | 0.520 | 253.93 | 14.77 | 0 | 7 | 14.77 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 42" PIPE STA 30+00 RT WASHINGTON RD | 19.632 | 2.141 | 1315.34 | 91.98 | 54 | 18 | 37.98 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| A144 24" PIPE | 11.980 | 1.193 | 802.66 | 36.26 | 0 | 9 | 18.99 | 0 | 0 | 0 | 0 | 5 | 3.45 | 17.27 | 4 | 0.25 | 0.5 | 0.047 | 25 | |
| EXISTING DITCH RT END BLUE RIDGE DR | 0.252 | 0.096 | 16.88 | 44.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14.78 | 44.34 | 0 | 0.1 | 0.5 | 0.113 | 25 | |
| EXISTING DITCH END COLUMBIA INDUSTRIAL BLVD | 8.634 | 3.081 | 578.48 | 75.20 | 0 | 3 | 6.33 | 0 | 0 | 0 | 0 | 2 | 2.95 | 5.89 | 4 | 0.5 | 0.5 | 0.046 | 25 | |
| | | | | | | | | | | | | 2 | 15.60 | 31.20 | 4 | 0.25 | 0.5 | 0.129 | 25 | |
| | | | | | | | | | | | | 2 | 15.89 | 31.78 | 4 | 0.25 | 0.5 | 0.013 | 100 | |
| G2 24" CONNECT TO EXISTING | 5.957 | 0.325 | 399.12 | 4.22 | 0 | 2 | 4.22 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| F1 CONNECT TO EXISTING | 0.559 | 0.000 | 37.45 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| F2 CONNECT TO EXISTING | 0.258 | 0.000 | 17.29 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| F3 CONNECT TO EXISTING | 0.251 | 0.000 | 16.82 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| F4 CONNECT TO EXISTING | 0.124 | 0.000 | 8.31 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| SHEET FLOW | 33.408 | 28.229 | 2238.34 | 2238.34 | 0 | 0 | 0 | 0 | 0 | 0+ | + | 0 | | | | | | | | |

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IN ORDER TO PREVENT RUNOFF FROM BYPASSING INLET SEDIMENT TRAPS, A TEMPORARY BERM SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL INLET SEDIMENT TRAPS THAT ARE NOT LOCATED IN A LOW POINT OR EXCAVATED SUMP. TEMPORARY BERMS, WHEN NECESSARY, SHALL BE A MINIMUM OF 18" HIGH AND CONSTRUCTED IN A MANNER THAT ENSURES STORMWATER DOES NOT BYPASS THE INLET. THE CONTRACTOR MAY SUBMIT ALTERNATIVE TEMPORARY CONTAINMENT BERM DESIGNS TO THE PROJECT ENGINEER FOR APPROVAL.

NOTES:
 1. THERE ARE THREE CULVERTS AND 2 BRIDGES ON THIS PROJECT. NONE ARE LISTED AS OUTFALLS, AS ALL ARE OFFSITE WATER PASSING THRU THE PROJECT IN DEFINED CHANNELS. INSTEAD ALL CONCENTRATED FLOWS INTO THE DEFINED CHANNELS ARE LISTED AS OUTFALLS.
 2. NO ACTUAL MEASUREMENTS WERE DONE FOR THE LENGTH OF SILT FENCE FOR SHEET FLOW. A ROW OF SILT FENCE IS PLACED ANYWHERE SHEET FLOW WILL LEAVE THE PROJECT. THE ACTUAL LENGTH OF SILT FENCE IS SUCH THAT ANY CALCULATIONS WILL SHOW AN UNREASONABLY HIGH AMOUNT OF SILT RETENTION. NO MORE THAN 1/4 ACRE IS FLOWING THROUGH ANY 100' SECTION OF SILT FENCE.

THE FOLLOWING OUTFALLS DO NOT MEET THE MINIMUM OF 67 CY OF SEDIMENT STORAGE PER ACRE:
 A59 MANHOLE CONNECT TO EXISTING - A59 COLLECTS WATER FROM A NEW LOCATION URBAN ROADWAY. IT WOULD IMPRACTICAL TO CONSTRUCT A SEDIMENT BASIN BECAUSE OF THE SYSTEM'S PROXIMITY TO STREAM 4 AND THE NEW 8X6 CULVERT.
 2' FBD STA 102+50 LT - THIS IS A NEWLY CONSTRUCTED DITCH TO CONVEY THE RUNOFF FROM THE ROADWAY SLOPES TO STREAM 4. DUE TO ITS PROXIMITY TO STREAM 4 IT IS IMPRACTICAL TO INCLUDE A SEDIMENT BASIN.
 A70 JUNCTION BOX CONNECT TO EXISTING - TO INCLUDE A SEDIMENT BASIN PRIOR TO CONNECTING TO THE EXISTING SYSTEM WOULD REQUIRE ADDITIONAL PRIVATE HOMES AND WOULD INCREASE EXPOSURE LIMITS AND CONSTRUCTION TIME.
 2' FBD STA 120+50 LT - TO INCLUDE A SEDIMENT BASIN WOULD REQUIRE THE CLOSURE OF EXISTING OLD EVANS ROAD WHICH IS A HIGHLY TRAFFICKED ROAD.
 4' FBD STA 133+50 LT - THIS DITCH IS MOSTLY CONVEYING OFFSITE WATER. TO INCLUDE A SEDIMENT BASIN WOULD INCREASE THE EXPOSURE AREA AND TIME SIGNIFICANTLY.
 A15A 30 INCH PIPE - TO INCLUDE A SEDIMENT BASIN HERE WOULD REQUIRE A SIGNIFICANT INCREASE IN EXPOSURE AREA AND WOULD IMPACT ADDITIONAL BUILDINGS.
 A20 24" PIPE - THIS OUTFALL IS LOCATED BETWEEN TWO STREAMS AND TO INCLUDE A SEDIMENT BASIN WOULD REQUIRE IMPACTING ONE OR BOTH STREAMS.
 C46 36" PIPE - THIS OUTFALL COLLECTS WATER FROM A VERY BUSY INTERSECTION WITH LOTS OF SURROUNDING DEVELOPMENTS. TO INCLUDE A SEDIMENT BASIN WOULD REQUIRE IMPACTING THESE DEVELOPMENTS AND/OR STREAM 2A.
 E9 24" PIPE - THIS SYSTEM IS COLLECTING WATER FROM A DEVELOPMENT AND WILL BE MINIMALLY IMPACTED BY CONSTRUCTION. IT WOULD BE IMPRACTICAL TO CAUSE MORE IMPACTS TO INCLUDE A SEDIMENT BASIN.
 D9 MANHOLE CONNECT TO EXISTING - TO INCLUDE A SEDIMENT BASIN HERE WOULD CAUSE SIGNIFICANT IMPACTS TO A SUBDIVISION.
 18" PIPE UNDER CONNOR DR - THIS PIPE COLLECTS RUNOFF FROM CONNOR DRIVE. TO INCLUDE A SEDIMENT BASIN WOULD REQUIRE DIVERTING THE WATER AWAY FROM ITS NATURAL BASIN AND IMPACTING ADDITIONAL WATER BASINS.
 8' SWALE 206+50 LT - TO INCLUDE A SEDIMENT BASIN HERE WOULD REQUIRE EITHER IMPACTS TO A STREAM OR REMOVAL OF PRIVATE HOMES.
 B27A 48" PIPE - THERE IS NOT A SUITABLE PLACE FOR A SEDIMENT BASIN AS THIS IS A HIGHLY DEVELOPED CORRIDOR.
 4' FBD STA 13+33 RT - THIS AREA IS AN EXISTING ROAD BEING WIDENED AND INCLUDING A SEDIMENT BASIN WOULD MORE THAN DOUBLE THE DISTURBED AREA.
 A53 18" CONNECT TO EXISTING - THIS SYSTEM IS FROM A ROAD BEING WIDENED AND INCLUDING A SEDIMENT BASIN WOULD REQUIRE DOUBLING THE DISTURBED AREA.
 A44A 18" CONNECT TO EXISTING - THIS CONNECTS TO AN EXISTING SYSTEM WHICH IS THEN RAN THROUGH A DETENTION BASIN. IT WOULD BE IMPRACTICAL TO IMPACT THE DETENTION FOR A SEDIMENT BASIN.
 A45 24" CONNECT TO EXISTING - THIS CONNECTS TO AN EXISTING SYSTEM WHICH IS THEN RAN THROUGH A DETENTION BASIN. IT WOULD BE IMPRACTICAL TO IMPACT THE DETENTION FOR A SEDIMENT BASIN.
 A42 18" PIPE - SYSTEM CONSISTS OF 3 CATCH BASINS ON A WIDENED ROAD AND INCLUDING A SEDIMENT BASIN WOULD REQUIRE SIGNIFICANT ADDITIONAL DISTURBED AREA AND IMPACT A DRAINAGE CHANNEL.
 A19 42" PIPE - MOST OF THE WATER IN THIS SYSTEM COMES FROM OFFSITE DEVELOPMENTS. INCLUDING A SEDIMENT BASIN WOULD ALSO REQUIRE IMPACTING A STREAM BUFFER.
 42" PIPE STA 30+00 RT WASHINGTON RD - MOST OF THE WATER IN THIS SYSTEM COMES FROM OFFSITE DEVELOPMENTS. INCLUDING A SEDIMENT BASIN WOULD ALSO REQUIRE IMPACTING A STREAM BUFFER.
 A144 24" PIPE - INCLUSION OF A SEDIMENT BASIN WOULD REQUIRE EITHER IMPACTING A HOUSE OR A STABILIZED DRAINAGE CHANNEL FOR MOSTLY OFFSITE DRAINAGE.
 EXISTING DITCH END COLUMBIA INDUSTRIAL BLVD - TO INCLUDE A SEDIMENT BASIN WOULD REQUIRE IMPACTS TO A DEVELOPED BUSINESS DISTRICT.
 G2 24" CONNECT TO EXISTING - ONLY 2 CATCH BASINS ARE ON THIS SYSTEM. BECAUSE IT IS AN EXISTING SYSTEM, IT IS NOT POSSIBLE TO INCLUDE A SEDIMENT BASIN.
 F1-F4 CONNECT TO EXISTING - THESE FOUR CATCH BASINS WERE BUILT AS JUNCTION BOXES IN A PREVIOUS CONSTRUCTION PROJECT SPECIFICALLY TO BE USED ONCE THE MEDIAN WAS INSTALLED ON THIS PROJECT. THERE IS NO DISTURBED AREA COMING TO THESE INLETS AS THEY ARE PAST THE LIMITS OF PAVING AND THE MEDIAN IS TO BE DOWELED IN. THERE SHOULD BE NO SILT FROM RUNOFF AT THESE INLETS.

EVEN THOUGH SEDIMENT BASINS WERE NOT INCLUDED FOR THESE OUTFALLS, THE PROPOSED BMPS SHOULD PREVENT ACCELERATED TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS. ALL BMPS WILL BE INSTALLED AS SOON AS PRACTICAL AND ALL DITCHES WILL BE STABILIZED WITH TRUF REINFORCING MATS AS SOON AS GRADED. THE PROPOSED EROSION CONTROL MEASURES SHOULD PREVENT SEDIMENT FROM ESCAPING THE PROJECT SITE.

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

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| | REVISION DATES | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: ROADWAY DESIGN |
| | | ESPC GENERAL NOTES |
| | | P. I. No. 250470 COLUMBIA COUNTY |
| | | DRAWING No. 51-006 |