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PROJECT:
NEW O'REILLY AUTO PARTS STORE
OLD FRANKLIN TURNPIKE
ROCKY MOUNT, VA
SWMIBMP DETAILS



COMM # 4252
 DATE: 11-2-18
 REVISION DATE: 2-22-19
 4-4-19

C3.6

Hydrograph Report

Hyd. No. 5
 Post to POI 1

Hydrograph type = Combine	Peak discharge = 0.451 cfs
Storm frequency = 1 yrs	Time to peak = 12.07 hrs
Time interval = 2 min	Hyd. volume = 5.251 out
Inflow hydro. = 3, 4	Contrib. drain. area = 0.240 ac

Hydrograph Report

Hyd. No. 2
 Post Dev to Vault

Hydrograph type = SCS Runoff	Peak discharge = 2.452 cfs
Storm frequency = 1 yrs	Time to peak = 11.93 hrs
Time interval = 2 min	Hyd. volume = 5.053 out
Drainage area = 0.870 ac	Curve number = 61*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = User	Time of conc. (Tc) = 5.00 min
Total precip. = 2.86 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 4
 Post Dev Bypass

Hydrograph type = SCS Runoff	Peak discharge = 0.089 cfs
Storm frequency = 1 yrs	Time to peak = 11.97 hrs
Time interval = 2 min	Hyd. volume = 2.06 out
Drainage area = 0.240 ac	Curve number = 61*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = User	Time of conc. (Tc) = 5.00 min
Total precip. = 2.86 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 1
 Pre Dev POI 1

Hydrograph type = SCS Runoff	Peak discharge = 1.363 cfs
Storm frequency = 1 yrs	Time to peak = 12.00 hrs
Time interval = 2 min	Hyd. volume = 2.372 out
Drainage area = 1.040 ac	Curve number = 71*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = TR55	Time of conc. (Tc) = 7.40 min
Total precip. = 2.86 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 8
 Post+Offsite to Vault

Hydrograph type = Reservoir	Peak discharge = 0.992 cfs
Storm frequency = 2 yrs	Time to peak = 12.07 hrs
Time interval = 2 min	Hyd. volume = 6.750 out
Inflow hydro. No = 7 - Post-Dev + Offsite Undisturbed	Elevation = 1188.04 ft
Reservoir name = Vault	Max. Storage = 2,901 out

Hydrograph Report

Hyd. No. 9
 Post+Offsite to Vault

Hydrograph type = Reservoir	Peak discharge = 0.992 cfs
Storm frequency = 2 yrs	Time to peak = 12.07 hrs
Time interval = 2 min	Hyd. volume = 6.750 out
Inflow hydro. No = 7 - Post-Dev + Offsite Undisturbed	Elevation = 1188.04 ft
Reservoir name = Vault	Max. Storage = 2,901 out

Hydrograph Report

Hyd. No. 6
 POI 1 Pre-Dev + Offsite Undisturbed

Hydrograph type = Combine	Peak discharge = 1.713 cfs
Storm frequency = 2 yrs	Time to peak = 12.00 hrs
Time interval = 2 min	Hyd. volume = 4.265 out
Inflow hydro. = 1, 5	Contrib. drain. area = 1.150 ac

Hydrograph Report

Hyd. No. 5
 Offsite Undisturbed

Hydrograph type = SCS Runoff	Peak discharge = 0.039 cfs
Storm frequency = 2 yrs	Time to peak = 12.07 hrs
Time interval = 2 min	Hyd. volume = 1.65 out
Drainage area = 0.110 ac	Curve number = 67
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = TR55	Time of conc. (Tc) = 10.80 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 1
 Pre Dev POI 1

Hydrograph type = SCS Runoff	Peak discharge = 1.881 cfs
Storm frequency = 2 yrs	Time to peak = 12.00 hrs
Time interval = 2 min	Hyd. volume = 3.300 out
Drainage area = 1.040 ac	Curve number = 71*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = TR55	Time of conc. (Tc) = 7.40 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 9
 Vault Release + Bypass to POI 1

Hydrograph type = Combine	Peak discharge = 1.089 cfs
Storm frequency = 2 yrs	Time to peak = 12.03 hrs
Time interval = 2 min	Hyd. volume = 7.153 out
Inflow hydro. = 3, 8	Contrib. drain. area = 0.240 ac

Hydrograph Report

Hyd. No. 3
 Post Dev Bypass

Hydrograph type = SCS Runoff	Peak discharge = 0.199 cfs
Storm frequency = 2 yrs	Time to peak = 11.97 hrs
Time interval = 2 min	Hyd. volume = 4.93 out
Drainage area = 0.240 ac	Curve number = 61*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = User	Time of conc. (Tc) = 5.00 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 2
 Post Dev to Vault

Hydrograph type = SCS Runoff	Peak discharge = 3.145 cfs
Storm frequency = 2 yrs	Time to peak = 11.93 hrs
Time interval = 2 min	Hyd. volume = 6.593 out
Drainage area = 0.870 ac	Curve number = 61*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = User	Time of conc. (Tc) = 5.00 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 1
 Pre Dev POI 1

Hydrograph type = SCS Runoff	Peak discharge = 1.881 cfs
Storm frequency = 2 yrs	Time to peak = 12.00 hrs
Time interval = 2 min	Hyd. volume = 3.300 out
Drainage area = 1.040 ac	Curve number = 71*
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = TR55	Time of conc. (Tc) = 7.40 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464

Hydrograph Report

Hyd. No. 5
 Offsite Undisturbed

Hydrograph type = SCS Runoff	Peak discharge = 0.039 cfs
Storm frequency = 2 yrs	Time to peak = 12.07 hrs
Time interval = 2 min	Hyd. volume = 1.65 out
Drainage area = 0.110 ac	Curve number = 67
Basin Slope = 0.0 %	Hydraulic length = 0 ft
Tc method = TR55	Time of conc. (Tc) = 10.80 min
Total precip. = 3.46 in	Distribution = Type II
Storm duration = 24 hrs	Shape factor = .464



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PROJECT No. V183205 SCALE: N/A
 DRAWN BY / CHECKED BY: DSH/JUR CAD: I.D./S.D1

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