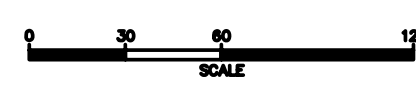


LEGEND  
 DRAINAGE AREA OF INTEREST

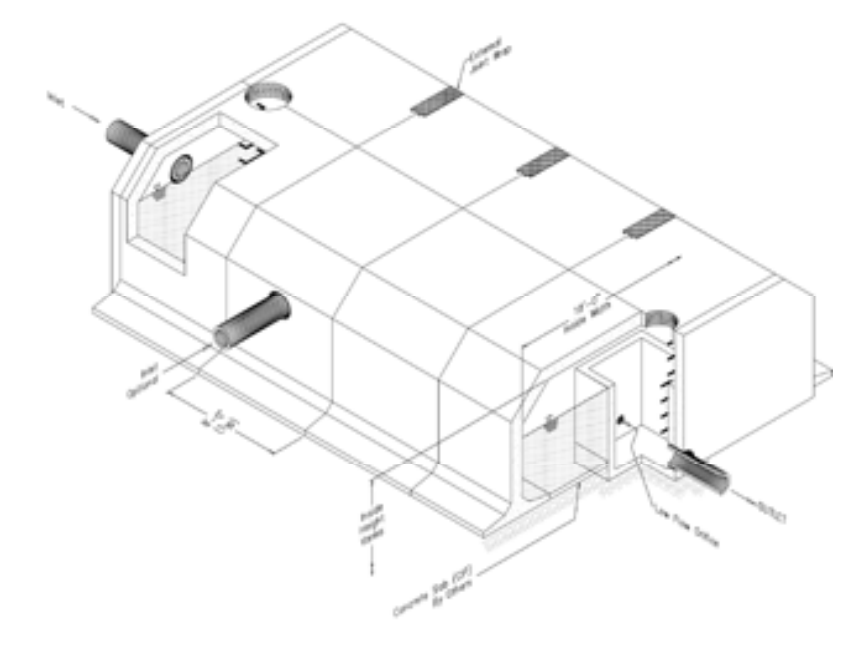
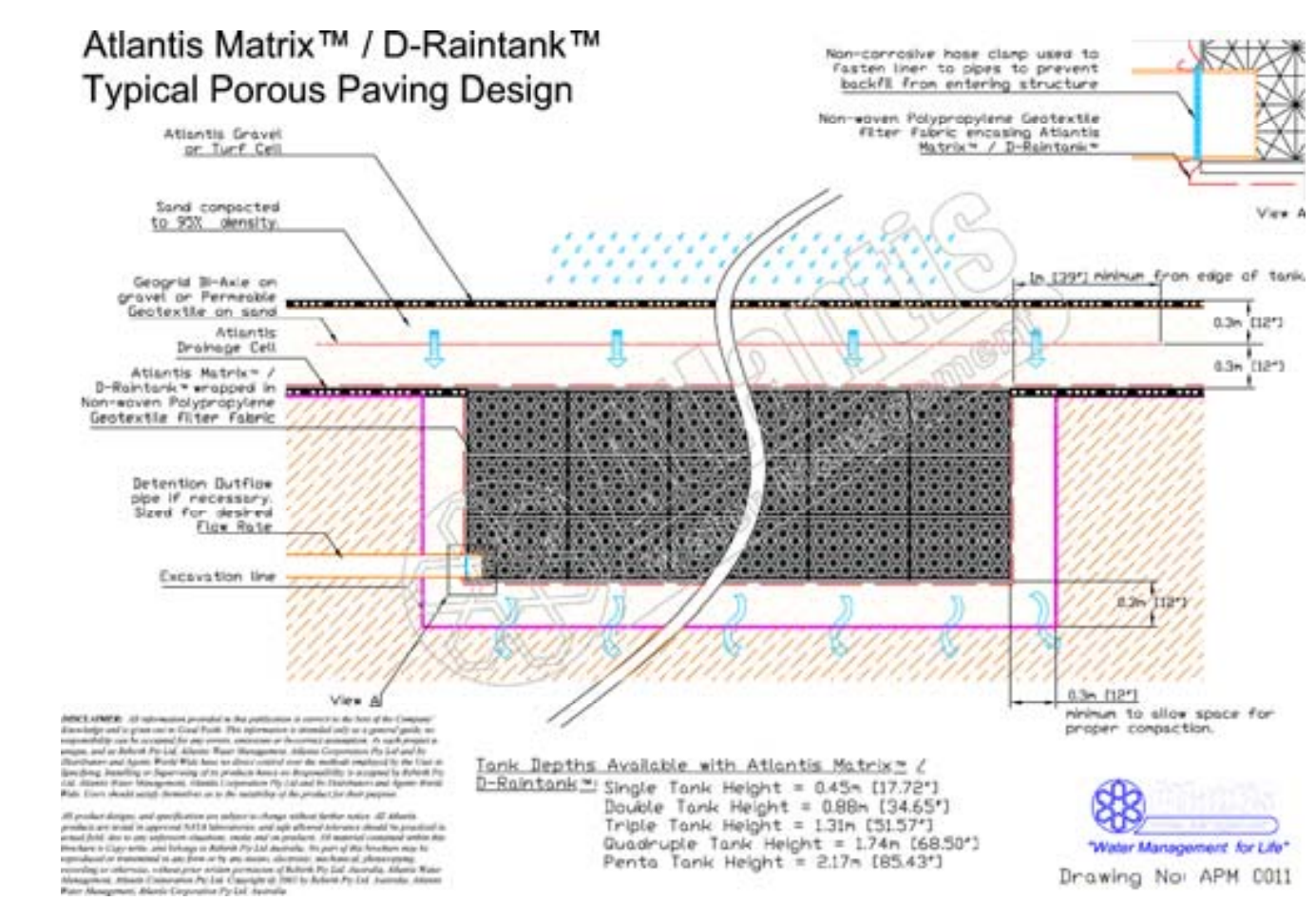
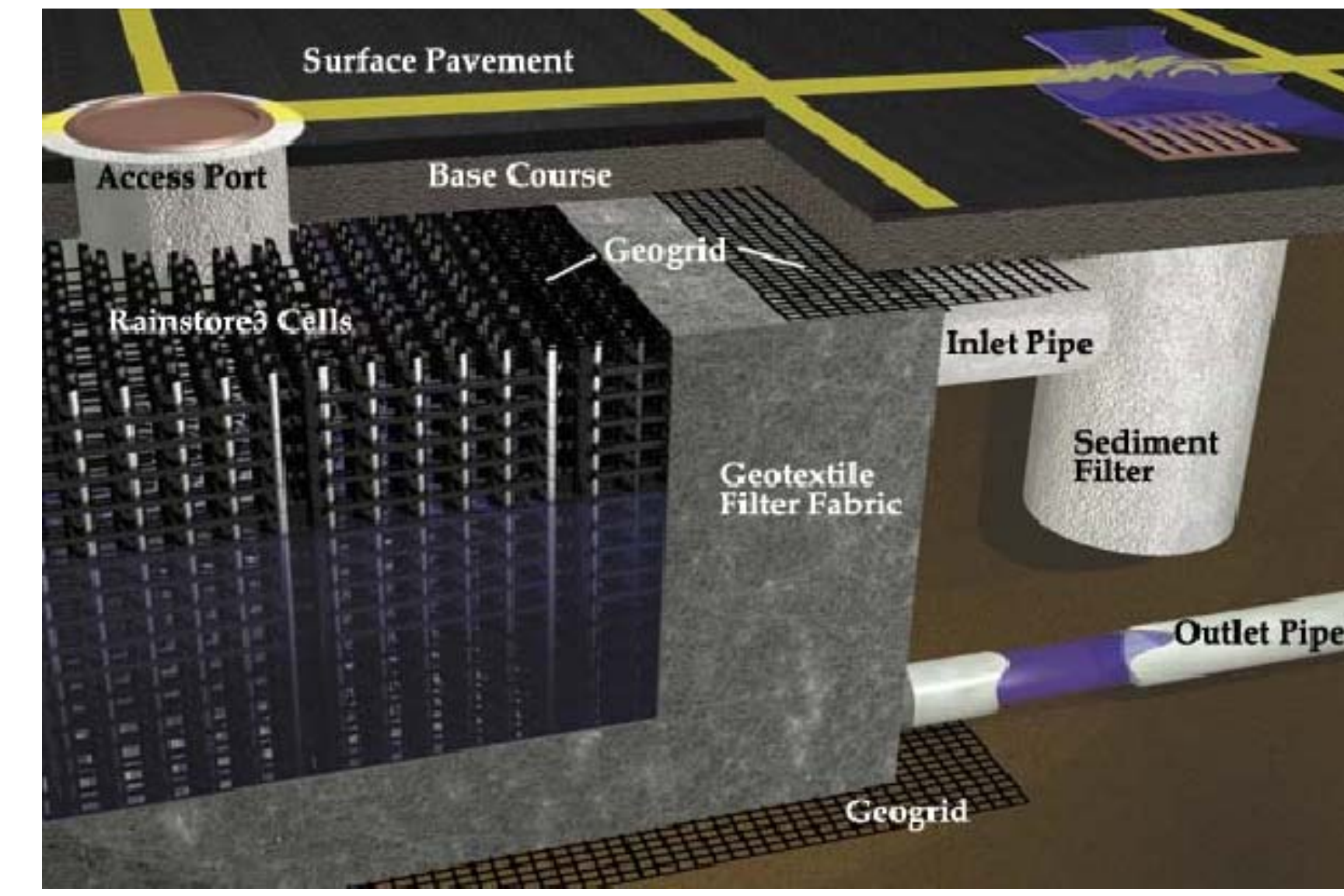


BIORETENTION SYSTEM NOTES:

1. THE 1.632 ACRE TARGET AREA IS PART OF A COMMERCIAL PARKING LOT OF MOORESTOWN. THIS SYSTEM IS DESIGNED TO INFILTRATE THE STORMWATER WATER RUNOFF OF A NEW JERSEY WATER QUALITY STORM (2" IN 2 HOURS).
2. THE TARGET AREA WILL GENERATE 6,100 CUBIC FEET FOR EVERY NJ WATER QUALITY STORM. THE AREA OUTLINED IN GREEN IS A SMALL 1 FOOT DEEP BIORETENTION SYSTEM FOR THE TARGET AREA. IF CURB CUTS ARE NEEDED TO ALLOW FOR THE STORMWATER TO MORE EASILY ENTER THE BIORETENTION SYSTEM. NEW JERSEY AVERAGES 42 INCHES PER YEAR. 90% OF ALL THE RAIN EVENTS IN NEW JERSEY ARE LESS THAN OR EQUAL TO THE NEW JERSEY WATER QUALITY STORM. OVER THE COURSE OF A YEAR THE BIORETENTION SYSTEM WILL INFILTRATE 5.079 AC-FT PER YEAR OR 1.66 MILLION GALLONS PER YEAR.
3. OVER THE COURSE OF A YEAR, THE TARGET AREA PRODUCES 325 LBS OF TOTAL SUSPENDED SOLIDS A YEAR. THE BIORETENTION SYSTEM WILL REMOVE 293 LBS OF TOTAL SUSPENDED SOLIDS FROM ITS ANNUAL DISCHARGE.

UNDERGROUND DETENTION SYSTEM NOTES:

1. THE SECOND TARGET AREA IS 6.1 ACRES AND ONLY THE PARKING LOT IS IN THE POMPESTON WATERSHED. THIS SITE HAS VERY LITTLE EXTRA AREA FOR ANY ABOVEGROUND SYSTEM. THIS SITE WOULD BE AN EXAMPLE DEMONSTRATION PROJECT FOR THE BENEFITS OF AN UNDERGROUND DETENTION SYSTEM. THE SYSTEM WOULD BE BUILT UNDERNEATH THE PARKING LOT. UNFORTUNATELY, THIS WOULD REQUIRE THAT THE PARKING LOT HAS TO BE COMPLETELY TORN UP AND REBUILT.
2. THE TARGET AREA WILL GENERATE 23,000 CUBIC FEET FOR EVERY NJ WATER QUALITY STORM. UNDERGROUND DETENTION SYSTEMS CAN BE DESIGNED TO ALLOW WATER TO INFILTRATE OR THEY CAN NOT. RCE RECOMMENDS THAT THE SYSTEMS BE DESIGNED TO ALLOW INFILTRATION TO OCCUR. UNDERGROUND STORAGE SYSTEMS DO NOT TREAT ANY OF THE STORMWATER THEY DETAIN. UNDERGROUND DETENTION SYSTEMS INFILTRATE SLOWER THAN SOIL BUT INFILTRATION CAN OCCUR ON A NORMAL BASIS TO RECHARGE THE GROUND.



DRAFT