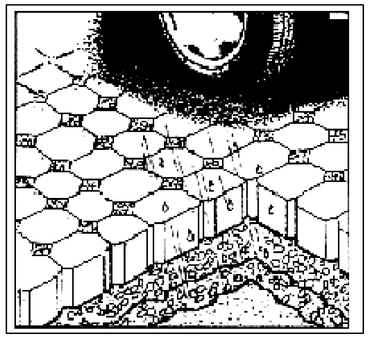

LEGEND

PARKING LOT OF INTEREST

0 20 40 80
SCALE



NOTES:

1. THE ENTIRE PARKING LOT SHOULD BE REMOVED AND REPAVED USING PERVIOUS PAVEMENT TECHNOLOGY, SPECIFICALLY UNI ECO-STONE.

2. UNI ECO-STONE HAS THE ABILITY TO INFILTRATE OVER 500 IN/HR. THIS IS IN THE MOST FAVORABLE CONDITIONS IT CAN REACH THIS INFILTRATION RATE.

3. RUTGERS COOPERATIVE EXTENSION IS ASSUMING THAT UNI ECO-STONE WILL INFILTRATE STORMWATER FROM THE PARKING LOT AT A RATE OF 0.6 IN/HR.

4. AN INFILTRATION RATE OF 0.6 IN/HR THE NEW JERSEY WATER QUALITY STORM WHICH IS 1.25 INCHES IN 2 HOURS.

6. THE PERVIOUS PAVEMENT WILL OFFER GROUNDWATER RECHARGE TO THE WATERSHED AND REDUCE THE TOTAL SUPSENDED SOLIDS FROM THE RUNOFF.

7. 90% OF ALL THE STORMS IN NEW JERSEY ARE LESS THAN OR EQUAL TO THE VOLUME OF THE NEW JERSEY WATER QUALITY STORM. THE PERVIOUS PAVEMENT WILL INFILTRATE 4.66 AC-FT PER YEAR OR 1.5 MILLION GALLONS PER YEAR.

8. ECO UNI-STONE DOES NOT WORK PROPERLY IF THE PAVEMENT HAS SALT OR SAND APPLIED TO IT FOR SNOW MITIGATION. THIS PARKING LOT IS USED FOR A PARKING LOT THUS SALT AND SAND WILL NOT BE USED ON THIS SITE, NO ONE USES THE SITE DURING THE WINTER MONTHS.

DRAFT

REVISION | DATE

CHRISTOPHER C. OBROPTA, Ph.D., P.E.
PROFESSIONAL ENGINEER - NJ LICENSE # 37532

DESIGNED SPW | CHECKED CCO | APPROVED | DATE

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE POMPESTON CREEK
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
PHEASANT RUN SWIM CLUB PARKING LOT, CINNAMINSON,NJ
RETROFIT PARKING LOT

RUTGERS New Jersey Agricultural Experiment Station
WATER RESOURCES PROGRAM
14 COLLEGE FARM ROAD
NEW BRUNSWICK, NJ 08901

JOB POMP | CONCEPT SHEET # 2 | SHEET NO. 2 | TOTAL 12