NOTE:

1. THE RECOMMENDATION FOR THIS SITE IS A WATER REUSE AND RECOVERY SYSTEM COULD BE CONSTRUCTED AND MEET THE NEEDS OF THE GOLF COURSE BY DOUBLING IT AS A WATER HAZARD AND DECREASING USE OF THE POTABLE WATER FROM THE GOLF COURSE.

2. THE WATER RECOVERY SYSTEM WILL BE INTEGRATED INTO THE EXISTING IRRIGATION SYSTEM OF THE GOLF COURSE. THEY EXIST AS WATER HAZARDS ON THE GOLF COURSE SO THEY WILL NOT BE SEEN AS EYE-SORES ON THE EXISTING PROPERTY.

3. THE PONDS WILL HOLD AT LEAST 3 FEET OF STANDING WATER AT ALL TIMES. THEY WILL HAVE THE CAPACITY TO HOLD AN ADDITIONAL 3 FEET OF WATER.

4. THE PONDS WILL HAVE STORAGE SPACE FOR 686,234.03 CUBIC FEET OF WATER ABOVE THE REQUIRED 3 FT OF STANDING WATER.

5. WHEN THE WATER RECOVERY SYSTEM IS INTEGRATED INTO THE IRRIGATION SYSTEM, THE IRRIGATION SYSTEM SHOULD ALWAYS USE ALL THE REYCLED WATER BEFORE USING THE POTABLE WATER.

6. PONDS ARE SIZED TO MEET MORE THAN A 100 YEAR STORMS. THEIR GOAL IS TO ALLOW FOR THE GREATEST AMOUNT OF STORAGE.

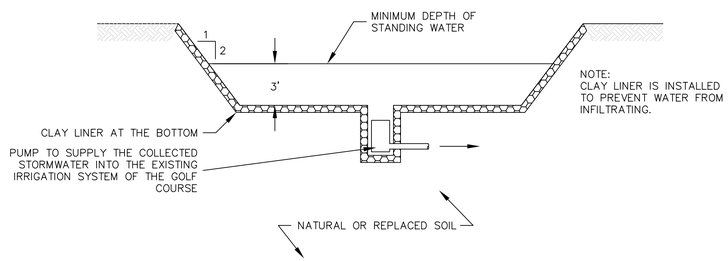
7. ALL PONDS SHOULD BE LINKED TOGETHER THROUGH THE IRRIGATION SYSTEM TO ALLOW FOR EVEN GREATER STORAGE. IF ONE STARTS TO OVERFILL THE WATER CAN BE TRANSPORTED TO ANOTHER POND TO ALLOW FOR GREATER STORAGE.

8. PONDS ARE ONLY 6 FEET DEEP BECAUSE THE WATER TABLE IS CLOSE TO THE SURFACE AND DOES NOT ALLOW FOR GREATER DEPTH.

9. THE AVERAGE RAIN FALL OF 44" A YEAR WILL ALLOW THE GOLF COURSE TO RECYCLE 20,584,140.18 GALLONS A YEAR. WITH A 40% EVAPORATION RATE.

10. ADDITIONAL STORMWATER COULD BE DIVERTED FROM THE NEAR BY STREETS TO THE PONDS FOR GREATER COLLECTION OF THE STORMWATER WATER. THIS NOTE IS NOT INCLUDED IN THE CALCULATIONS.

10. THIS IS NOT FOR PERMITTING OR CONSTRUCTION USE, THIS DRAWING IS ONLY TO BE USED FOR CONCEPTUAL PURPOSES.



TYPICAL CROSS SECTION OF WATER REUSE POND
(NOT TO SCALE)

LEGEND
PROPOSED DRAINAGE AREA
PROPOSED POND

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE
ROBINSON BRANCH
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
OAK RIDGE GOLF COURSE
WATER REUSE PONDS CONCEPT PLAN

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

DESIGNED	CHECKED	APPROVED	DATE
XXX	XXX		

NO.	REVISION	DATE

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS COOPERATIVE EXTENSION
New Jersey Agricultural Experiment Station
WATER RESOURCES PROGRAM
14 ENGLISH LANE
NEW BRUNSWICK, NJ 08901

JOB	SHEET #
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XX	XX

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