

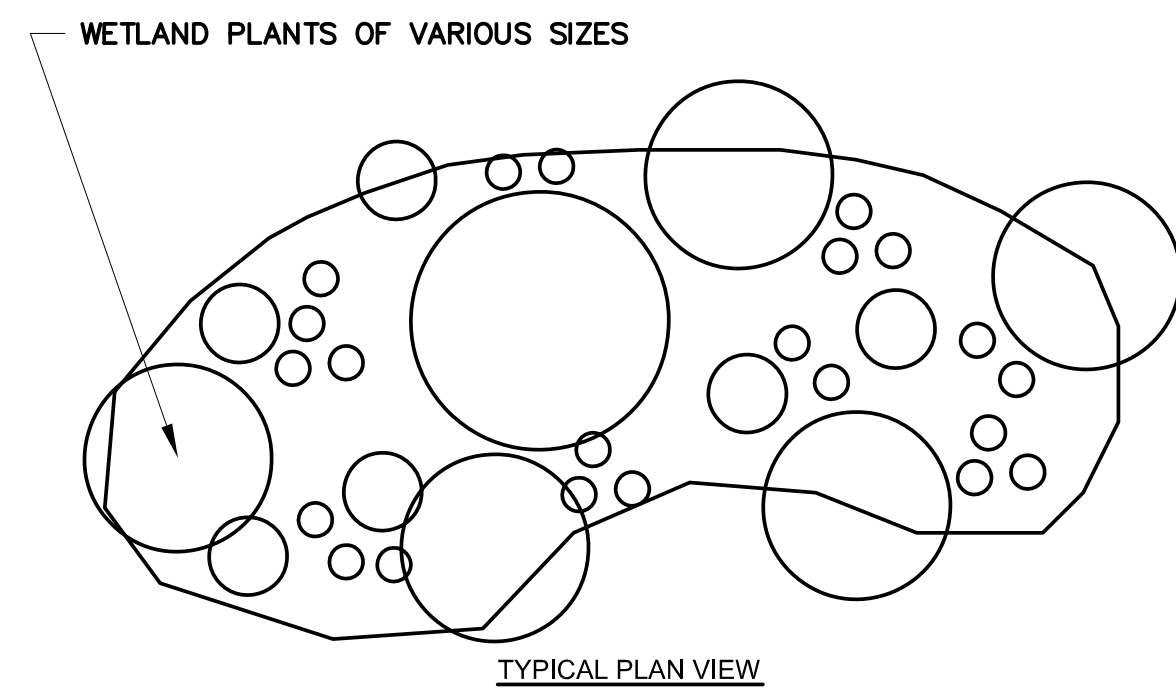
NOTES:

1. THE FOLLOWING SITE IS SELECTED TO BE A SMALL DEMONSTRATION PROJECT FOR RAIN GARDENS IN RESIDENTIAL COMMUNITIES FOR THE 2 YEAR DESIGN STORM. THE ROOFTOPS FOR THIS SITE ARE A TOTAL AREA OF 0.377 ACRES. FOR THE 2 YEAR STORM THEY WILL PRODUCE 0.1 AC-FT OF RUNOFF. THIS PROJECT WILL INFILTRATE ALL STORMWATER RUNOFF FROM STORMS GREATER THAN OR EQUAL TO THAT OF A 2 YEAR STORM (3.4 INCHES IN 24 HOURS).
2. THIS PROJECT IS DESIGNED TO COLLECT RUNOFF FROM ROOFTOPS MOSTLY, THERE WILL NOT BE MUCH WATER QUALITY IMPROVED FROM THESE RAIN GARDENS. THE PURPOSE OF THIS PROJECT IS TO INCREASE GROUNDWATER RECHARGE THROUGHOUT THE AREA AND TEACH STAKEHOLDERS THAT THEY ARE ALL ABLE TO MAKE A DIFFERENCE IN STORMWATER MANAGEMENT.
3. THREE OF THE RAIN GARDENS ARE ABOUT 1,100 SQ. FT AND THE FOURTH WILL BE JUST OVER 1,700 SQ. FT. ONE IS LARGER THAN THE REST BECAUSE THE ROOF IT IS COLLECTING WATER RUNOFF FROM IT IS SIGNIFICANTLY LARGER THAN THE REST. THE ROOFS WILL BE LOCATED IN THE BACK BECAUSE MULTIPLE WALKWAYS THROUGH AROUND THE FRONT OF THE ENTRANCES MAKE THE LAYOUT FOR THE RAIN GARDENS DIFFICULT. SOME OF THE WATER WILL NEED TO BE REROUTED FROM DOWNSPOUTS THAT DISCHARGE THE WATER IN THE FRONT OF THE BUILDING TO DISCHARGE THE WATER IN THE BACK. WITH SLIGHT ADJUSTMENTS TO THE GUTTERS RCE FEELS THAT IT CAN BE ACCOMPLISHED EASILY.
4. IF FOR WHATEVER REASON THE WATER CAN NOT BE REROUTED FROM THE FRONT TO THE BACK RCE RECOMMENDS THAT THE SIZE OF THE RAIN GARDENS BE REDUCED AND THE WATER BARRELS AND CISTERNS BE IMPLEMENTED TO HOLD THE WATER FROM FRONT PART OF THE ROOFS. ALL RAIN BARRELS AND CISTERNS SHOULD BE SIZED PROPERLY AND GIVEN OVERFLOW OUTLETS FOR LARGER STORMS. THE RAIN BARRELS/CISTERNS CAN BE USED TO WATER THE LAWN AND FLOWERS OF THE SITE BEFORE USING POTABLE WATER. THE WATER WILL INFILTRATE WHEN BEING USED FOR WATERING.



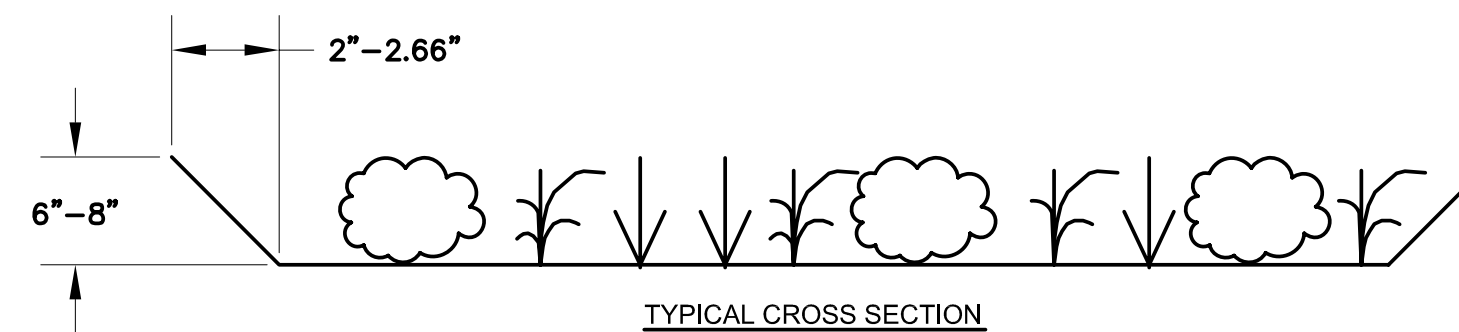
LEGEND

- PARKING LOT OF INTEREST
- RAIN GARDEN OUTLINE

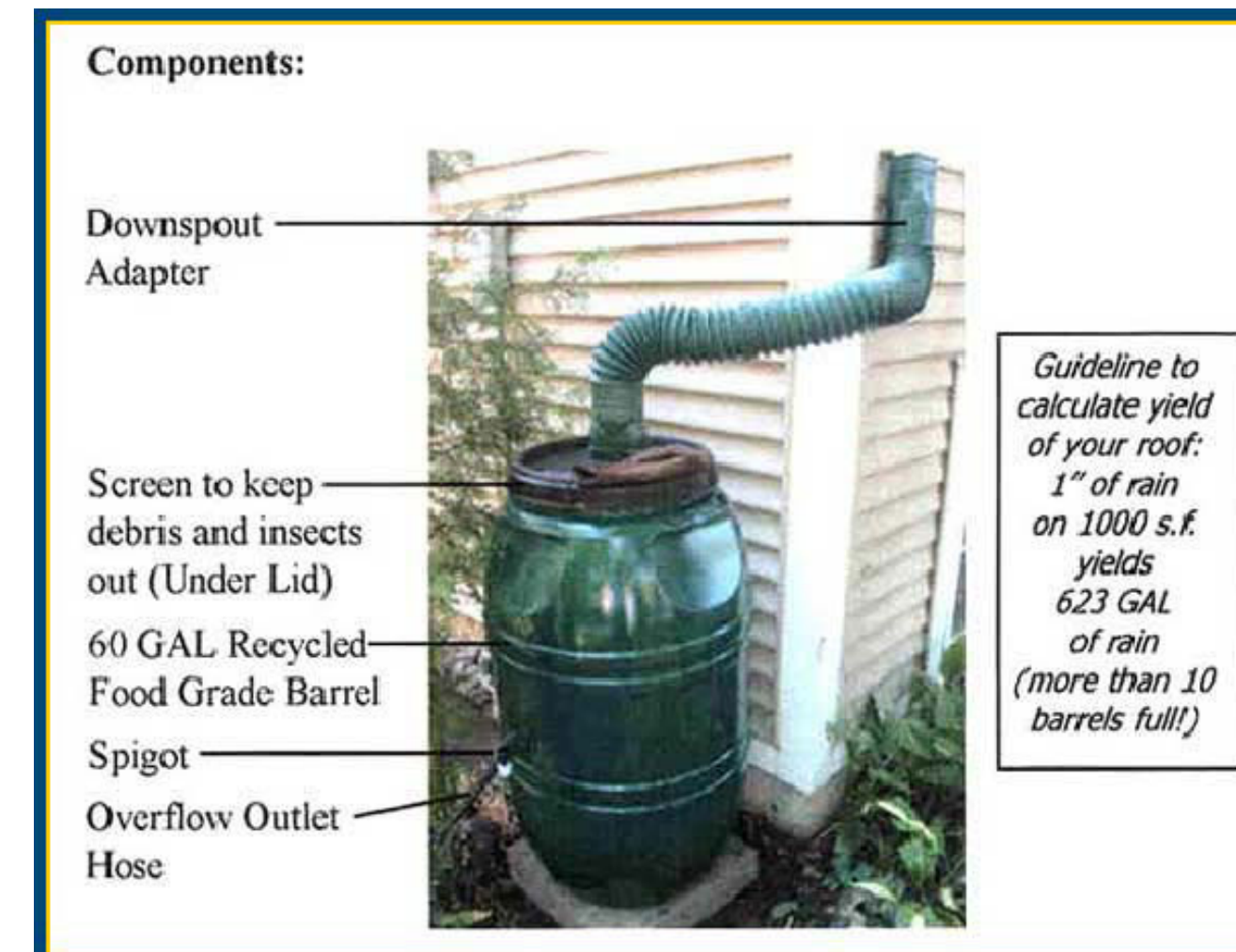


NOTES:

1. RAIN GARDENS SHALL BE APPROXIMATELY 70 SQ. FT.
2. THE NUMBER AND SIZE OF RAIN GARDENS FOR EACH DISCONNECTED AREA CAN VARY FROM DUE TO PHYSICAL CONSTRAINTS OF THE SITE SUCH AS GRADE AND LOCATE OF RAIN SPOUTS



RAIN GARDEN SCHEMATIC
NOT TO SCALE



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

DESIGNED	CHECKED	APPROVED	DATE
SPW	CCO		

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE POMPESTON CREEK
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HIGH DENSITY RESIDENTIAL RAIN GARDEN, RIVERTON, NJ
RAIN GARDEN RETROFIT



JOB	CONCEPT SHEET #
POMP	10
NO	TOTAL
10	12

DRAFT