**Fort Gratiot Municipal Center Borings Info**

Sheet C-3 Utility Plan indicates the drainage areas and retention volumes we are dealing with, and the locations of the Soil Borings.

Soil Boring 9 was taken in the middle of the proposed Western Retention Basin. Soil Borings 8, 7 and 6 were taken out on the periphery.

Soil Borings 1 and 10 were taken on the periphery of the Northeast Retention Basin.

The Western Retention Basin is designed to retain 33,497 cft. The design High Water Mark is elevation 604.00, the design Low Water Mark is 597.50. The adjacent Warner Drain local low point is 597.33.

Soil Boring 9 indicates groundwater encountered at 14 feet, elevation 593.76 while drilling, and 8 feet, elevation 599.76 after completion. The groundwater was initially encountered 597.50-593.75=3.74 feet below the design low water elevation. There is a layer of peat above the initial encountered groundwater, between elevations 595.76-598.76, indicating it is high and dry, and capable of conveying groundwater.

Soil Boring 8 indicates no groundwater encountered to a depth of 15 feet, elevation 589.91. The peat layer is dry, between elevations 590.91-595.91.

Soil Boring 7 was taken in the existing septic field. The groundwater (septic) elevation seems to be perched. The peat layer is between elevations 596.92-599.42.

Soil Boring 6 indicates no groundwater encountered to a depth of 18 feet, elevation 590.46.

The Northeast Retention Basin is designed to retain 9,533 cft. The design High Water Mark is elevation 604.50, the design Low Water Mark is 602.90. The adjacent wetland low point is 596.96.

Soil Boring 1 indicates no groundwater encountered to a depth of 30 feet, elevation 576.82.

Soil Boring 2 indicates no groundwater encountered to a depth of 30 feet, elevation 577.24.

Soil Boring 3 indicates no groundwater encountered to a depth of 20 feet, elevation 586.70.

Soil Boring 10 indicates no groundwater encountered to a depth of 10 feet, elevation 596.31.