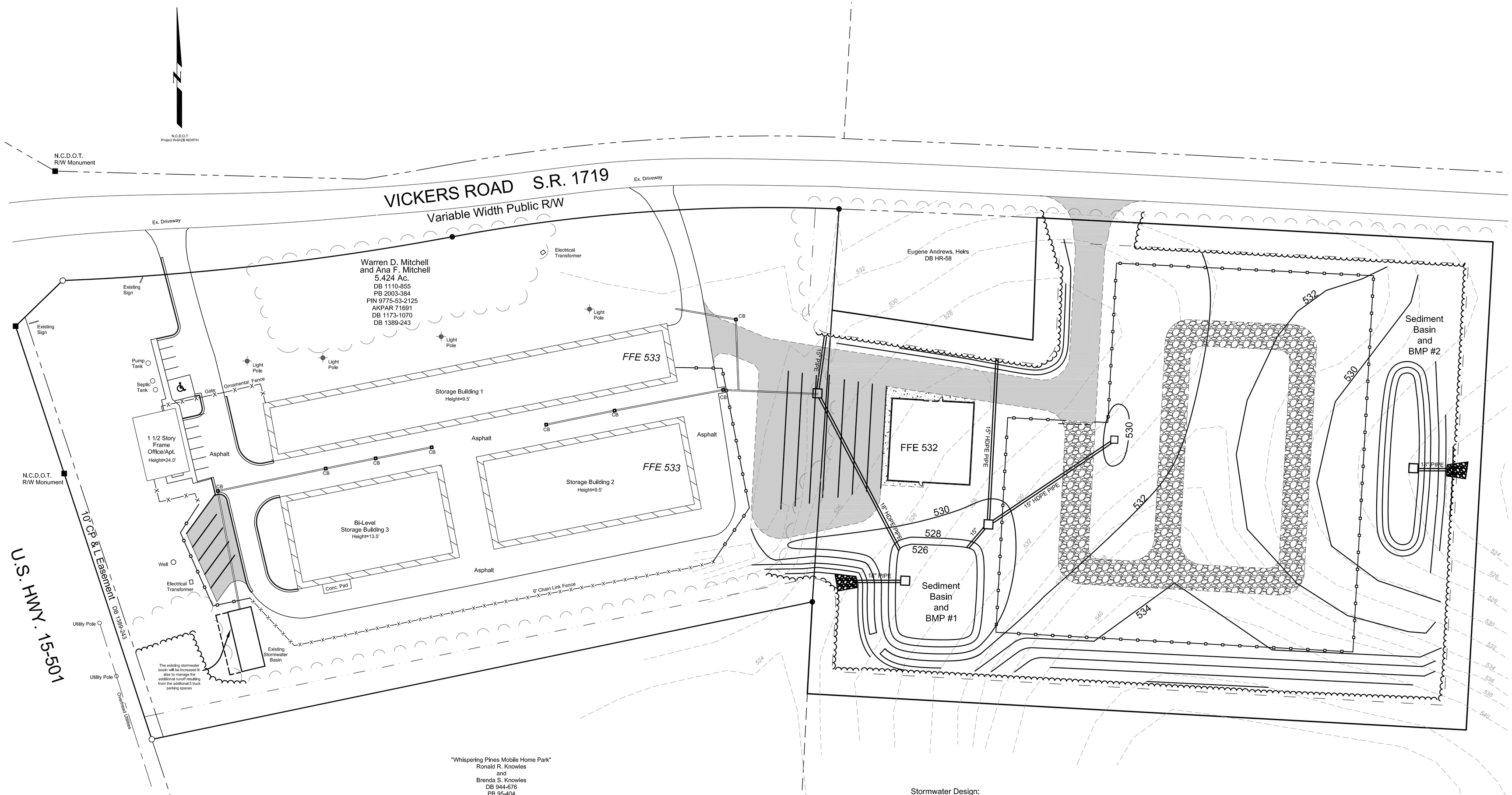

Stormwater Design:

The stormwater system is designed to comply with the Chatham County Stormwater Ordinance and Design Guidelines. It will adhere to the following requirements:

Stormwater Quality
a. At a minimum effectively and efficiently capture, and treat the runoff volume produced from the 1-year, 1-hour storm event.
b. At a minimum remove 85% of the average annual Total Suspended Solids (TSS) from the development produced runoff.
c. Where any stormwater quality control measure utilizes a temporary water quality storage pool as a part of its designed treatment system the drawdown time shall be as close to 72-hours as reasonably possible; however, no less than 48 hours and no more than120 hours.

Stormwater Quantity
a. The post development peak flow discharged rates shall not exceed the pre-development peak discharge rates for all storms up to and including the 10-year, 24-hour event. Analysis of the 1-, 2-, 5-, and 10-year, 24-hour storm events shall be submitted to confirm this requirement.
b. Additional peak discharge rate reduction may be required by the Stormwater Administrator where the capacity of the receiving system is limited and/or documented downstream flooding would be exacerbated by the minimum requirements.

Stormwater Conveyance Systems
a. Stormwater conveyance systems, both public and private, including culverts, pipes, inlets, junctions, ditches, and swales shall be designed to minimally meet the guidelines outlined by the North Carolina Department of Transportation Hydraulics Unit

Erosion Control Design:

The Sediment will be controlled on site by use of 2 sediment basins. The proposed stormwater basins will be first designed and constructed as sediment basins to capture all stormwater runoff during construction and promote settlement of suspended particles. The basins will be converted to stormwater basins once the site construction is complete and stabilized. All elements of the County's Sediment and Erosion Control Ordinance will be followed.

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REVISIONS

IRONCLAD SELF STORAGE

Chatham County, North Carolina

Grading, Storm and Erosion Control Plan

December 16, 2011

Scale: 1"=40'

Drawn By: WDM

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