



STORMWATER MANAGEMENT REPORT CHECKLIST

Please check as applicable or show N/A if not applicable; Specify as needed

- Supplemental Standards Satisfied (ULDC 407.91(b))**
 - Water Management District Permit Requirements
 - MTPo Urban Design Policy Manual (Policies 4.4 through 4.5.2)
- Alternate Methods Explored (ULDC 407.91(c))**
 - Low Impact Development
- Discharge to stream or open lake basin (ULDC 407.91(c)1)**
 - Post-development discharge rate doesn't exceed pre-development rate for events up to and including 100-year critical storm event
- Discharge to closed lake basin (ULDC 407.91(c)2)**
 - Retain runoff for 100-year storm event and ensure that only the pre-development volume is discharged at rates not to exceed the pre-development rate for events up to and including 100-year storm
- Projects with no positive outfall or that manufacture, store or refine hazardous substances (ULDC 407.91(c)3)**
 - Retain the total volume of runoff for events up to and including 100-year critical storm event
- Located in Karst Area (ULDC 407.91(c)4)**
 - Provide treatment of runoff prior to discharging into the aquifer and preclude the formation of solution pipe sinkholes
 - Provide a minimum of 3 feet unconsolidated soil between limestone bedrock and bottom sides of basin(s)
 - Basin depth as shallow as possible with a horizontal bottom
 - Maximum Basin depth of 10 feet
 - Fully vegetated basin side slopes and bottom
 - Industrial or Commercial Sites (The following may apply)
 - More than 3' unconsolidated soil between limestone bedrock and bottom sides of basin(s)
 - Basin Liners – Clay or Geotextile
 - Sediment sumps at stormwater inlets
 - Off-line treatment
 - Paint/solvent and water separators
 - Trash traps
 - Hydrodynamic separators
- Documentation and test results provided for unsaturated-vertical and saturated-horizontal soil permeability/hydraulic conductivity (ULDC 407.91(e)4); Use 6 feet/day for confined zones and 20 feet/day for unconfined zones; Apply factor of safety of 2**
- Post-development hydrologic conditions similar to pre-development conditions (ULDC 407.91(e)5)**
- Mounding analysis required if seasonal high water table is within 6 feet of the pond bottom (ULDC407.91(e)6)**



- ___ No significant alteration of contributing watershed boundaries or basins not wholly contained within the project area (ULDC 407.91(e)7)**
- ___ Accommodation of runoff from off site contributing to site (ULDC 407.91(e)8)**
- ___ Water quality treatment volume recovery (407.91(e)9)**
 - ___ Retention basin WQTV recovery within 72 hours of end of event
 - ___ Open lake, closed lake dry basin total retention/detention WQTV recovery within 14 days
 - ___ Dry basin with no outfall WQTV recovery within 72 hours of end of event and total retention/detention WQTV recovery within 14 days or recovery at end of 14 days for a subsequent 100-year, 24 hour event
- ___ Minimum freeboard of 6 inches for basins created by damming or berming (ULDC 407.91(e)10)**
- ___ Maintenance access to basins and width of Basin (ULDC 407.91(e)11)**
 - ___ Minimum width of 25' (all sides) from basin bottom to the outer edge of the maintenance path
 - ___ Width of maintenance path = 12 feet for subdivision or Open space basins
 - ___ Width of maintenance path = minimum 5' wide for Non open space basins
 - ___ Access-way width = 5 feet wide
 - ___ Landscape area within the 25 feet = 9 feet wide
- ___ Storm sewers must convey 3-year/10-minute storm event (ULDC 407.91(e)13)**
- ___ Rainfall volumes taken from the FDOT Drainage Manual (ULDC 407.91(e)17)**
- ___ Storm-water area(s) designed in the context of site design/topography (ULDC 407.92(a))**
- ___ 25% of basin(s) landscaped with native vegetation (ULDC 407.92(b)1)**
- ___ Basin(s) of irregular shape with no parallel sides (ULDC 407.92(b)2)**
- ___ Inflow/Outflow located on opposite ends of basin(s) (ULDC 407.92(b)3)**
- ___ Erosive velocities controls (ULDC 407.92(b)4)**
- ___ Vegetated buffers (ULDC 407.92(b)5)**
- ___ Fence required for basin(s) (ULDC 407.92(c)1)**
 - ___ Basins with depth greater than 4 feet from bottom to control elevation and slopes steeper than 6H:1V
 - ___ Basins without a controlled outfall and DHWE greater than 4 feet from bottom and slopes steeper than 6H:1V, except where the side slopes are shallower than 6H:1V
 - ___ Wet Basins with a normal pool depth of 6 feet or greater, except where the slopes are shallower than 6H:1V to a depth at least 4 feet lower than the permanent pool location
 - ___ All fences to be minimum 4 feet height with 14 foot wide maintenance access gate



Fence not required for basin(s) (ULDC 407.92(c)4)

- Basins no deeper than 4 feet
- Dry basins with slopes no steeper than 6H:1V, regardless of depth
- Wet basins with maximum pool depth less than 6 feet and slopes no steeper than 6H:1V to a depth of 4 feet below the control elevation

Alternatives to on-site control (ULDC 407.93)

- Regional storm-water facility provided

Water Quality Criteria (ULDC 407.94)

Retention, Underdrain and or exfiltration (ULDC 407.94(a))

- Off-line treatment: 0.5" of runoff or 1.25" times impervious area, whichever is greater
- On-line treatment: 0.5" additional volume over that required in off-line

Wet detention (ULDC 407.94(b))

- On-line treatment for 1.0" of runoff or 2.5" times impervious area, whichever is greater
- With littoral zone = provide permanent pool average of 14 days in wet season
- Without littoral zone = provide permanent pool average of 21 days in wet season
- Littoral zone designed per SJRWMD requirements

Swale (ULDC 407.94(c))

- On-line treatment = 80% of the runoff from the three-year, one-hour storm

Wetland Treatment (ULDC 407.94(d))

- On-line treatment for 1.0" of runoff or 2.5" times impervious area, whichever is greater
- Minimum criteria for discharge to FDEP Class I, Class II or Outstanding Florida Water (ULDC 407.94(d)2)
 - Detention with under-drain and/or ex-filtration:**
 - Off-Line treatment = 50% additional treatment volume over FDEP Class III off-line criteria
 - On-Line treatment = runoff from the 3-year, 1-hour storm or 50% additional treatment volume over FDEP Class III on-line, whichever is greater
 - Wet Detention:**
 - Off-Line = Pretreatment pursuant to FDEP Class III criteria
 - On-Line = 50% more treatment volume over FDEP Class III criteria
 - Swale** = Runoff from the 3-year, 1-hour storm
 - Wetland Treatment** = 50% more treatment volume over FDEP Class III criteria
- Discharge to Active Sinkhole or located in primary spring shed protection zone (ULDC 407.94(d)3)**
 - Provide treatment for the first 2" of rainfall from the design storm
- Basin Overflow structures (ULDC 407.94(d)4)**
 - Discharged water must meet applicable quality standards



Proper Erosion and Sedimentation Control Measures (ULDC 407.95)

Special Criteria for Residential Subdivision Systems (ULDC 407.96)

- Homeowner's Association established and maintenance responsibilities clarified
- Basins located within platted lots only if lots are one acre or greater in size, soils are well drained with no confining layers (retention only) and basin slopes are 4H:1V or flatter
- Maintenance access provided
- Outside platted lots and minimum of 12' wide (for slopes steeper than 8H:1V)
- Minimum of 25' from basin bottom with no less than 9' landscaped

Specific Information in the storm-water management report shall include:

Recent Aerial Photograph

- Delineate project area
- Delineate the watershed boundaries (Pre and Post development)

Map of Project area

- Show the existing topographic contours and drainage patterns
- Provide contours in 1' intervals
- Provide spot elevations for impervious surfaces

Complete Hydrologic Analysis

- Identify the Modeling Program Used
- Time of Concentration Calculations
- Curve Number calculations
- Treatment volume calculations
- Identification and classification of receiving body
- Analysis of flood plains
- Basin staging and recovery calculations
- Modeling Results (Pre and Post development) for all required design storm events
- Pipe calculations (include drainage boundaries for each inlet)

Geotechnical soils report (ULDC 407.97(d))

Borings

- Type of test (Auger, SPT or Direct Push test)
- One per basin and two per ¼ acre of basin bottom area
- Minimum depth of boring = 10' below basin bottom
- Existing water table (if encountered)
- Estimate of elevation of seasonal high water table
- Soils permeability rate(s)
- Geotechnical Engineer's recommendations
- Specific information regarding sinkholes (if applicable)
- Recommendations/Remediation



Alachua County, Board of County Commissioners
Department of Growth Management
10 SW 2nd Ave., Gainesville, FL 32601
Tel. 352.374.5249, Fax. 352.338.3224
<https://growth-management.alachuacounty.us>

Submit Application to:
Development Services Division

-
- ___ **Maintenance Entity (ULDC 407.97(e))**
 - ___ **Design Engineers Certified Statement (ULDC 407.97(f))**
 - ___ **Offsite Easements (ULDC 407.97(h))**
 - ___ **discharge to a man-made facility where County does not have discharge rights**
 - ___ **discharge to a natural system with specification as to the rate or character**