Athens-Clarke County

TRANSPORTATION & PUBLIC WORKS

ENGINEERING

PLANS REVIEW CHECKLIST

PROJECT NAME:_____ SUBMITTED BY:_____

YES	NO	NA	PLANS	ITEM LOCATION
			Appropriate Scale (No less than 1" = 50') and North Arrow.	
			On the grading sheets existing and proposed topography shown, 2' foot interval minimum, labeled. On stormwater facility insets proposed topography shown, 1' foot interval minimum, labeled. At a scale no less than 1'=30'.	
			Ensure all wetlands, state waters, and riparian buffers are shown and labeled.	
			Show location and elevations of any floodplains.	
			Show location and elevation of all existing stormwater conveyance systems.	
			Show location of existing and proposed roads, buildings (include FFE's), parking lots and other impervious areas.	
			Boundaries of proposed clearing and grading.	
			Location, material and elevations of any proposed retaining walls. Walls over 4 feet in height require handrails or fencing. Retaining walls for stormwater facilities shall include a waterproofing method.	
			Driveway location, dimensions, and relevant details.	
			Sidewalks and accessibility ramps dimensions and relevant details.	
			Location of all existing and proposed stormwater easements (label as "public" or "private").	
			Location of all existing and proposed stormwater management facility operation and maintenance easements. Easements should extend from the ROW to and around facilities and be a minimum of 20 feet wide.	
			No corrugated storm pipe less than 1% grade and no smoothwall pipe at less than 0.5% grade.	
			Show 25-year HGL for all storm drain pipes	
			Utility crossings should be shown, labeled, and dimensioned	
			Details for all structures and systems proposed as part of the stormwater management plan.	
			PROVIDE A PRE-DEVELOPMENT MAP which includes the following:	
			1. Sub-basins clearly delineated and labeled.	
			2. Contributing area shown for each sub-basin.	
			3. Composite curve numbers shown for each sub-basin.	
			4. Time of concentration flow path delineated.	
			5. Point of Analysis shown for each sub-basin.	

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			6. Note the total existing impervious surface.	
			PROVIDE A POST-DEVELOPMENT MAP which includes the following:	
			1. Sub-basins clearly delineated and labeled.	
			2. Contributing area shown for each sub-basin.	
			3. Composite curve numbers shown for each sub-basin.	
			4. Time of concentration flow path delineated.	
			5. Point of Analysis shown for each sub-basin.	
			6. Note the total impervious surface, replaced impervious, and new impervious surface and note any areas changing from impervious to pervious.	
			General land cover areas, using the land cover categories below: • Undisturbed Forest, indicate good, fair, or poor condition • Undisturbed non-forest vegetation, indicate predominate vegetation and condition (e.g., native shrubbery – good, meadow – fair) • Managed areas, indicate general use • Bare soil • Impervious (rooftop, pavement, gravel, etc.) • Existing BMPs to remain	
			Show the location of all regulated/designated stream buffers, wetlands, sinkholes, seeps, springs and slopes greater than 15%.	
			Existing conservation areas.	
			Areas where wet conditions or flooding is known to have occurred.	
			Existing utility corridors and rights-of-way, labeled with the owner's name and "private" or "public".	
			Any other relevant data/test results, such as soil boring locations and other geotechnical data, soil analyses, capacity studies, etc.	
			Selection and location of non-piped stormwater conveyance system features, whether natural or man-made, that will receive and convey stormwater from proposed site improvements including channels, swales and areas of overland flow. Each feature shall be identified by type, material, vegetative cover (if any), and dimensions (depth, width, diameter, side slope, etc.).	
			Show flow paths with arrows indicating the direction of flow.	
			Show discharge velocities and energy dissipation measures at all discharge points.	

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			Show invert elevations (in and out) and rim elevations, invert drop (min. 0.1'), use concrete splash pad for larger drops.	
			Show safety ledge for deep (15 feet+) stormwater manholes.	
			Provide centerline horizontal and vertical curve data for all roadway designs.	
			Provide cross-sections for road designs showing the shoulder tie ins to existing/proposed topography, curb and gutter dimensions or roadside ditch geometry, sidewalks/multi-use trails, and roadway cross slopes on 50-foot stations.	
			Show structural layering of roadway construction including subgrade and pavement thickness.	
			Show and provide all calculations and sizing for ES&PC BMPs. Label the calculations to match BMPs shown on plans.	
			Provide stage-storage- discharge table for all forebays and detention facilities. Show and label the 100-year storm event elevation. 1.0 feet of freeboard is required between the 100-year elevation and the top of the dam	
			Ensure maximum distance between structures of stormwater conveyances is 300 feet	
			Show the 25 and 100-year HGL for all roadway culverts.	
			Provide pipe table with hydraulic data, including pipe name, length, drainage area, runoff coefficient, time of concentration, total runoff, total flow, velocity, pipe size, pipe slope, pipe inverts, and HGL elevations.	
			Provide structure table hydrologic data, including structure name, drainage area, inlet time, runoff coefficient, captured flow, bypassed flow, curb height, curb length, grate area, grate length, grate width, gutter slope, gutter width, gutter cross slope, road cross slope, local depression, inlet depth, gutter spread, and gutter depth. Inlets in sag should be analyzed for 24 hour 50-yr storm event.	
			Include the most current GSWCC checklist. Ensure checklist is filled out and completed correctly. Ensure page numbers are consistent with required information.	
			Ensure initial ES&PC plan is limited to disturbance required to install initial ES&PC BMPs	
			HYDROLOGY REPORT	
			Narrative of clear rationale and methodology for hydrology study.	
			Summary tables showing the pre- and post-development flows for 1, 2, 5, 10-, 25-, 50-, and 100-year storms. Post development rates must be less than or equal to the pre-development rates for all storm events between the 2-year and 25-year storms.	

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			SCS Method utilized for all hydraulic or routing analysis.	
			Pre and Post development time of concentration calculations shown for each sub-basin.	
			Outlet control structure detail is included in hydrology report. Detail must be consistent with detention pond grading elevations and construction drawings.	
			Hydraulic model input is consistent with outlet control structure details.	
			Downstream impact analysis of development showing timing/release and/or development impact on flood plain in respective basin.	
			Stage-storage table for all forebays and detention facilities.	
			Narratives describing how each of the following performance standards are achieved a. stream erosion protection (CPv) b. overbank flood protection (Qp2, Qp10, Qp25, and Qp50) c. extreme flood protection (Qp100)	
			Provide Curve numbers used for analysis. If a curve number reduction is taken show calculations for the individual storm events.	
			Demonstrate that the 100-year frequency, 24-hour storm event will be discharged safely (show method used and provide supporting calculations and conclusions).	
			Proposed condition hydrologic/hydraulic analyses and final sizing specifications for stormwater quantity and quality BMP designs, including all supporting data (contributing drainage area, required storage, outlet configuration, etc.) and calculations.	
			Any other relevant data/test results, such as soil borings and other geotechnical data, soil analyses, capacity studies, etc.	
			Provide an Operations and Maintenance Plan in accordance with the GSMM for the stormwater facilities.	

The above is not an all-inclusive list but was created to help guide an applicant through TPW's Plans Review process. Project specific details may vary.

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