Projec	t Name-Number			
Desig	n Professional	Design Professional Certification (Seal, Signature and expiration information)	Seal	
Instri	ictions:			
	e checklist must be submitted wit	h the first submittal		
		npleted checklist will not be reviewed and will be returned to the applicant.		
	•	sert into each box either of the following:		
	$\sqrt{\text{This item has been addressed}}$			
	N This item does not apply to thi			
	boxes must be checked.			
5. The	e review engineer (Rev.) will upon	review of the plans verify by inserting either of the following:		
		addressed or agree that it does not apply.		
		ately addressed. (Use the remarks column to indicate via letter designation, which item needs to be		
		se is required then indicate in the remarks column that the item is addressed in the comment letter).		
		urned to the applicant with the comment letter.		
7. The	e checklist must be returned w	ith the second submittal utilizing the same check format indicated in item 3 above		
-	This shocklist is being provided a	a a general guide for identifying the minimum features that should be addressed prior to submitting th	o plana for anginaaring ravia lt ia	
►t	o be used in conjunction with	s a general guide for identifying the minimum features that should be addressed prior to submitting the site development plan checklist for Single Family Dwellings (SFD).		
▶	The design consultant by assigni	ng his/her seal and signature certifies that the plans were completed in accordance with all currently a	applicable design standards.	
► ^I	Plans that are incomplete as pe considered a first submittal in t	er the checklist items will result in an incomplete review and will be returned to the consultant the review process.	. The resubmittal will be	
		ncept items will be reviewed with the first submittal. If based on the review, this office determines that to the Maximum Extent Practicable (MEP), then the engineering review of the final details will be con		
		I is NOT being addressed using Environmental Site Design (ESD) to the Maximum Extent Practicable mpleted. The applicant will then address the comments that are required to demonstrate that ESD to		

	First St	ubmittal	nittal Second Submittal		Engineering Review for Single Lot Grading Permit Plans	Remarks			
	Des.	Rev.	Des.	Rev.					
	Stormwater Management Concept Review								
1					Drainage Area Maps				
2					Provide the following drainage area maps: A) Entire drainage area to site and or affecting site. B) On site drainage areas to SWM devices				
3					All Drainage area maps: A) Contours numbered with legible letteringB) contour lines extend at least 200' beyond drainage area boundariesC) Travel path for Tc shown with segments labeled (distance, slope and "n" factor)D) Hydrologic soil groups delineated and shadedE) Acreage shown for entire drainage area and each sub area used in computations for curve number or "C" factorF) North arrow shownG) Scale shown.				
4					Soils: A) Labeled and shaded based on Hydrologic Soil Group (A, B, C, D). B) Indicate highly erodible soils by separate shading.				
5					If all of the required information required to be shown, such as soil and zoning etc. cannot be shown on the overall map then the information may be shown on a separate map. These maps must be shown at same scale as overall map.				
6					Scale shall be 1" = 100' for sites with acreage < 25 acres, or 1" = 200' for sites with acreage > 25 acres.				
7					On Site Plans				
8					North arrow/NAD 83;				
9					Benchmark- BM NO., description and elevation. (Indicate vertical control used, NAVD 1929 or NAVD 1988);				
10					Pre Development				
11					Site outline showing bearings and distances.				
12					Resource Mapping: Provide a composite map which allows clear depiction of the existing site resources and conditions.				
13					Site resources include but are not limited to: A) Mature trees B) Tidal and Non tidal Wetlands (based on report) C) Floodplains D) Streams labeled as (Perennial, Intermittent, etc.), E) Slopes greater than 25% (15% in critical areas), F) Buffers to streams and wetlands, G) Historical and or archaeological resources				
14					Highlight and shade the areas that should be protected from development: This includes site resources listed above and sensitive features such as steep slopes, flood plains, etc.				

	First Su	ubmittal		cond mittal	Engineering Review for Single Lot Grading Permit Plans	Remarks	
	Des.	Rev.	Des.	Rev.			
15					Certification Note: Provide a note certifying that the location of features shown on the Resource map has been field verified. Note must be signed by design consultant.		
16					Pre and Post development discharge points from the site shown and labeled		
17					Indicate if site is within any Bog Drainage or impact areas		
18					Provide a tabulation of sub drainage areas that provides a linkage with information used in computations. (i.e. any number used in curve number computations should be included in this table and clearly shown on the map.)		
19					Provide the names of public or private roads that abut or traverse the site. B) Show right of way limits C) Indicate if road is on the scenic and historic road inventory.		
20					Location of existing structures, septic areas, and water wells within 100 feet of site located on abutting and adjacent properties, as applicable; labeled "remain:, "to be removed", or "to be abandoned".		
21					Property ownership and info- including the tax # for abutting and adjacent properties.		
22					Limits of Critical Area designations- LDA, RCA, IDA;		
23				•	Proposed Development Plan		
24					Site layout meets the criteria listed below:		
25					Proposed imperviousness and disturbance is minimized to the maximum extent practicable		
26					Protects conservation areas, and areas delineated in line 14 above, to the maximum extent practicable		
27					SWM is addressed by utilizing non structural practices, natural areas, landscape features and micropractices to manage runoff from impervious surfaces.		
28					Site graded so that runoff flows from impervious areas directly to pervious areas or natural conveyance systems		
29					Natural flow paths between the site and upstream and downstream systems are maintained		
30					Sheet flow and natural overland flow processes maintained wherever it is feasible		
31					Stable conveyance of runoff provided to offsite areas.		
32					Structural BMPs are used only where absolutely necessary		
33					Show and label proposed contour lines.		
34					Easements provided for any work proposed on private offsite properties.		
		End of Preliminary Plan Review					

	First Submittal	Second Submittal		Engineering Review for Single Lot Grading Permit Plans	Remarks	
	Des.	Rev.	Des.	Rev.	Final Plan Review	
36					Reports, Computations and Attachments	
37					All computations are provided in a booklet that is A) Bound B) Sheets numbered C) Signed and Sealed by design professional D) Contains a table of contents.	
38					Provide a narrative that describes A) How natural features are protected and enhanced, B) How natural flow patterns are maintained, C) Measures taken to reduce impervious coverage.	
39					Address how the 10% pollutant reduction will be achieved if required.	
40					Study points: Provide pre and post development runoff for all study points.	
41					The same method of computation used when comparing runoff (i.e. if TR-55 used for post development runoff, it must be used for pre development as well)	
42					Compute rainfall amount treated in each facility and provide a table that shows the volume treated for each nonstructural method, micro practice and structural device and includes a summary of the total volume required and provided.	
43					Roads	
44					Road plan checklist included for any proposed road improvements.	
45			Us	se this s	section of the checklist only for plans where road improvements are not required.	
46					If road is not improved based on current classification and no improvements are proposed, then provide modification decision information on the plan.	
47					Bearing and distances shown on plan and plat	
48					Right of way bearing and distances shown on both sides of each proposed or existing road that is part of contract shown in plan view; Limits defined via bearings and distance and/or complete curve information; Show maximum and minimum widths if ROW is variable.	
49					Existing roads that abut or traverse the site (improved and unimproved) show: A) Road name; classification of road; B)Ownership (SHA, County, Private; C) Surface type: D) Show curb and gutte or edge of pavement E) Indicate if road is scenic and historic.	
50					ROW labeled A) As Temporary or Permanent B) Public or Private	
51					Proposed right of way widths shown if applicable	
52					Clear sight triangle at intersections	
53					Existing substandard roads: Based on road classification, either provide right-of-way dedication and/or frontage road improvements (as applicable) or, submit for a modification to current Article 17 Section 2-103;	

	First Submittal		ttal Secor		Engineering Deview for Cingle Let Oreding Dermit Diene	Demortes
	Des.	Rev.	Des.	nittai Rev.	Engineering Review for Single Lot Grading Permit Plans	Remarks
54	Storm Drainage - Stormwater Management					
55					Storm Drainage checklist is required for any proposed public storm drainage improvements.	
					Right to Discharge: Determine if any rights-to-discharge, on-site or off-site, are required.	
					Provide all necessary computations and plans to show how SWM is addressed. If disconnections are used, show the flow path on a plan that includes labeled contours.	
56					All SWM treatments must be covered under a Private SWM agreement to be executed with the grading permit.	
57					Water and Sewer	
58					If public water and or sewer is being extended then please supply the completed water and sewer checklist with the necessary public plans.	
59				٦	This portion of the checklist is to be used only if water and or sewer system extensions are no	ot proposed
60					Label all existing mains along the property frontage showing A) Sizes and types, B) As-built tracing numbers.	
61					Meters, cleanouts etc. located outside of driveways.	
62					Easement provided where: A) Water meter, B) Cleanout, C) Fire hydrant, D) Grinder pump, and or E) Mayo tank, is not located within public right-of-way	
63					Indicate current water and sewer service areas and category (existing, panned, no-planned service, etc.).	
64					Mains extended to limits of property and through the property frontage, if lot is located within the required extension distance (RED) as per the current water and sewer master plan.	
65					If site is within existing or planned service and utilities are not being extended, indicate the distance between the property line and the closest public utility.	
66					Show location of water and sewer connections to public utilities.	
67					Flood Plain	
68					Flood plain: A) Determine if flood plain exists on site. B) If flood plain exists use simplified method to determine water surface elevations on site	
69					For previously platted flood plain: Flood plain limits shown, and flood plain source referenced.	
70					For flood plains computed with this project: A) Cross sections shown and labeled on the site development plan B) Q100, Elevation and station shown for each cross section	
71					Floodplain drainage area information used in computations clearly depicted on drainage area maps	
72					Runoff computations for flood plains based on ultimate development of the drainage area based on zoning. No reductions based on storage in ponds, oversized pipes and undersized culverts.	
73					Miscellaneous	
74					Provide any necessary plats for easements, dedication etc.	