



**Mecklenburg County Health Department  
Environmental Health Division  
In-Field Plan Review Application Form  
(Equipment Changes)**

**HEALTH USE ONLY:**

DATE RCD \_\_\_\_\_  
APP \_\_\_\_\_ DIS \_\_\_\_\_  
INITIALS \_\_\_\_\_

Complete all applicable information below. Attach an updated Pool Drain/Suction Compliance (PDSC) form with new equipment information with submittal of this application form. A blank PDSC form can be found on our website at <http://meckpools.charmeck.org>. Include all applicable manufacturer product information sheets with submittal.

**Pool ID:**  
**Project/Pool Name:**  
**Pool Address:**  
**Original Construction Date:**

Pool renovation or repair may require permits from Mecklenburg County Code Enforcement including building, electrical, plumbing, and/or mechanical permits. Contact CTAC at 980-314-0916 or [email](#) for additional permitting questions. It is the responsibility of the applicant to retain all required permits for work completed at their swimming pool.

**Scope of Work**

<b>Description of Work to be Completed at Project</b>	
<b>Electrical Scope</b>	
<b>Mechanical Scope</b>	
<b>Plumbing Scope</b>	

**Contractor Information**

<b>Name</b>	
<b>Address</b>	
<b>Phone Number</b>	
<b>Email</b>	



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<b>Pool Profile Information</b>		
<b>Pool Type</b>	<input type="checkbox"/> Swimming Pool <input type="checkbox"/> Wading Pool <input type="checkbox"/> Spa <input type="checkbox"/> Specialized Water Attraction	
<b>Pool Perimeter (ft)</b>		
<b>Pool Surface Area (sq. ft)</b>		
<b>Pool Volume (gallons)</b>		<b>Turnover Required (gpm) =</b>
<b>Pump Information</b>  <i>Provide pump curve for pump located in pump room and new replacement pump</i>  <i>Design flow – 65' head</i>	<b>Pump Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow (gpm):</b> _____ <b>Design Flow (gpm):</b> _____ <b># Pumps Currently Installed:</b> _____ <b>VFD Installed</b> Y <input type="checkbox"/> N <input type="checkbox"/>	<b>NEW Pump Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow (gpm):</b> _____ <b>Design Flow (gpm):</b> _____ <b># Pumps to be Installed:</b> _____ <b>VFD Installed</b> Y <input type="checkbox"/> N <input type="checkbox"/> <b>TDH Calcs/Measure of True Flow:</b> _____
<b>Feature Pump Information</b>  <i>Provide pump curve for pump located in pump room and new replacement pump</i>	<b>Pump Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow (gpm):</b> _____ <b>Design Flow (gpm):</b> _____ <b># Pumps Currently Installed:</b> _____	<b>NEW Pump Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow (gpm):</b> _____ <b>Design Flow (gpm):</b> _____ <b># Pumps to be Installed:</b> _____
<b>Pipe Size (inches)</b>  <i>Pipe sizing is pipe located in pump room</i>  <i>Flow rates on Page 4</i>	<input type="checkbox"/> Filtration <input type="checkbox"/> Feature <b>Main Drain:</b> _____ in. _____ in. <b>Skimmers:</b> _____ in. <b>Return:</b> _____ in. _____ in.	<input type="checkbox"/> Filtration <input type="checkbox"/> Feature <b>Required MD:</b> _____ in. _____ in. <b>Required Skimmers:</b> _____ in. <b>Required Return:</b> _____ in. _____ in.
<b>Main Drain Covers</b>  <i>Provide manufacturer product specification sheets with flow ratings.</i>	<b>Suction Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow:</b> _____ <b># of Main Drains:</b> _____	<b>Feature Suction Mfg:</b> _____ <b>Model #:</b> _____ <b>Max Flow:</b> _____ <b># of Main Drains:</b> _____



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<b>Pool Profile Information</b>			
<p><b>Sump Information</b></p> <p><i>Provide manufacturer product specification sheets.</i></p>	<p><input type="checkbox"/> Field Built Sump - or - <input type="checkbox"/> Manufactured Sump</p> <p><b>Sump Diameter –</b>            Circular: _____ in. – or –            Rectangular Dimensions: _____ in. x _____ in.</p> <p><b>Sump minimum depth:</b> _____ in</p> <p><b>Diameter of suction outlet pipe in sump:</b> _____ in.</p> <p><b>Distance of top (inside) of suction outlet pipe from bottom of cover/grate:</b>            _____ in.</p> <p><b>Sump Mfg:</b> _____ <b>Sump Model #:</b> _____</p>		
<p><b>Equalizer Covers</b></p> <p><i>Provide manufacturer product specification sheets with flow ratings.</i></p>	<p><b>Equalizer Mfg:</b> _____ <b>Max Flow:</b> _____</p> <p><b>Model:</b> _____ <b># of Operable Equalizers:</b> _____</p>		
<p><b>Filter Specifications</b></p> <p><i>Provide manufacturer product specification sheets with flow ratings.</i></p>	<table border="1"> <tr> <td data-bbox="529 1083 976 1388"> <p><b>Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters Currently Installed:</b> _____</p> </td> <td data-bbox="976 1083 1416 1388"> <p><b>NEW Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters to be Installed:</b> _____</p> </td> </tr> </table>	<p><b>Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters Currently Installed:</b> _____</p>	<p><b>NEW Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters to be Installed:</b> _____</p>
<p><b>Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters Currently Installed:</b> _____</p>	<p><b>NEW Filter Mfg:</b> _____</p> <p><b>Model:</b> _____</p> <p><b>Max Flow:</b> _____</p> <p><b># of Filters to be Installed:</b> _____</p>		
<p><b>Inlet/Return Specifications</b></p>	<p><b>Inlet/Return Mfg:</b> _____ <b>Model #:</b> _____</p> <p><b># of Returns Installed:</b> _____</p> <p><b>Calculated Required Inlets:</b> _____            (Design flow ÷ 20)</p>		
<p><b>Skimmer Specifications</b></p> <p><i>Provide manufacturer product specification sheets with flow ratings.</i></p> <p><i>Minimum Sf – Swimming Pools – 1 per 400 sf Wading Pools – 1 per 400 sf Spas – 1 per 100 sf</i></p>	<p><b>Skimmer Mfg:</b> _____ <b>Model #:</b> _____</p> <p><b>Rated Flow (NSF):</b> _____ <b># of Skimmers Installed:</b> _____</p> <p><b>Calculated Required Skimmers:</b> _____            (Surface Area ÷ minimum sf)</p>		



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**Comments:**

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Submit completed application through email to [meckpools@mecknc.gov](mailto:meckpools@mecknc.gov), fax at 704-336-5306, or mail to 3205 Freedom Drive, Suite 8000, Charlotte, NC 28208.

**Pipe Sizing**

PVC Sch. 40 Pipe Sizing Chart per .2518(c)							
pipe size	1"	1.5"	2"	2.5"	3"	4"	6"
Suction PVC pipe @6ft/sec (all drains, skimmers, gutters)	16	38	62	89	138	238	539
Discharge or Returns (inlets) PVC pipe @10ft/sec	27	63	104	149	230	396	899

PVC Sch. 80 Pipe Sizing Chart per .2518(c)							
pipe size	1"	1.5"	2"	2.5"	3"	4"	6"
Suction PVC pipe @6ft/sec (all drains, skimmers, gutters)	13	33	55	79	124	215	487
Discharge or Returns (inlets) PVC pipe @10ft/sec	22	55	92	132	206	358	812