



**ITS Quality Checklist  
Power Cable & Pullboxes Installation**



Date:		Contract ID:		Financial Project ID:		Quality Inspector:		
Beg/End Sheet(s)			Beg/End MP			Beg/End Sta.		
<b>CONFORMED</b>		<b>NCR*</b>	<b>N/A</b>	<b>INSPECTION REQUIRED</b>				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review power system diagrams and schematic in the plans and specifications and carry copy to the field.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review approved traffic maintenance and protection plan and carry copy to the field.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitor traffic control setups and recommend adjustment if necessary.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify the total bends in a conduit section do not exceed 270 degrees.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that the pull box has been installed according to the approved plans and specifications					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify ground rods are installed at ITS poles and pull boxes per the approved plans and specifications.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that the ground conductor at the pull box is bonded to the ground rod using an exothermic weld process.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that each pull boxes have been grounded per FDOT roadway lighting details.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify power cables are installed in the appropriate conduit per the approved plans and specifications.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that the power and grounding cables are of the correct type and size per the plans and specifications.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify lubricants are used to minimize cable pulling tension.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify the cable puller system used has a dynamometer to allow the operator to monitor and maintain desired pulling tensions and speeds for safe and efficient cable installation.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that the manual or hydraulic trailer is equipped with a ball bearing on the reel shaft.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that splices are made with compression sleeves and that proper compression tools are used to ensure a permanent splice of high integrity.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that cables of connectors of dissimilar metals are not joined.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that electrical connectors are tighten to manufacturer's published torque-tightening values.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that proper breaker or fuses have been installed to protect the cables per the approved plans and specifications.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify at all pull box and pole bases that ends of conduits are sealed.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Document all changes from the approved plans and specification to the as-built drawings.					
<b>*Complete and Attach a Nonconformance Report for all Nonconforming items noted.</b>								
<b>QUALITY INSPECTOR</b>			<b>DATE</b>			<b>DOC CONTROL NO.</b>		