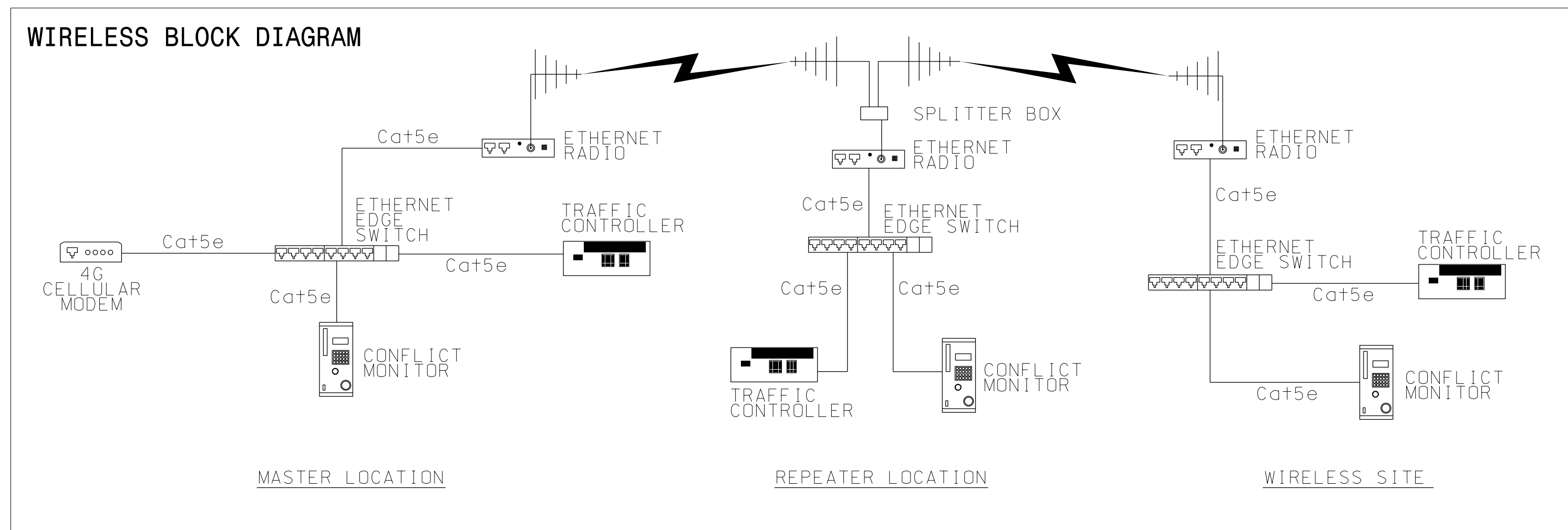


PROJECT NOTES

- Existing wireless system will be converted to two wireless systems.
 - System #1 will include:
 - 10-2182 US 74 (Independence Boulevard) at SR 1520 (Indian Trail-Fairview Road) WB U-turn
 - 10-2183 US 74 (Independence Boulevard) WB at SR 1520 (Indian Trail-Fairview Road)
 - 10-2184 (Master) US 74 (Independence Boulevard) EB at SR 1008 (Indian Trail Road)
 - 10-2185 US 74 (Independence Boulevard) at SR 1008 (Indian Trail Road) EB U-turn
 - 10-2186 US 74 (Independence Boulevard) at SR 1367 (Unionville-Indian Trail Road) WB U-turn
 - 10-2187 US 74 (Independence Boulevard) WB at SR 1367 (Unionville-Indian Trail Road)
 - 10-2188 US 74 (Independence Boulevard) EB at SR 1367 (Unionville-Indian Trail Road)
 - 10-2189 US 74 (Independence Boulevard) at SR 1367 (Unionville-Indian Trail Road) EB U-turn
 - Future connections to this closed loop system will be completed under project R-3329/R-2559 at the following signals along US 74:
 - 10-2179 - US 74 EB Service Road at McKee Road
 - 10-0599 - US 74 Service Roads at SR 1365 (Stallings Road)
 - System #2 will include:
 - 10-2190 US 74 (Andrew Jackson Highway) at Faith Church Road WB U-turn
 - 10-2191 US 74 (Andrew Jackson Highway) WB at Faith Church Road
 - 10-2192 US 74 (Andrew Jackson Highway) EB at Harris Teeter Distribution Center
 - 10-2193 US 74 (Andrew Jackson Highway) at Harris Teeter Distribution Center EB U-turn
 - 10-2194 US 74 (Andrew Jackson Highway) at SR 1515 (Sardis Church Road) WB U-turn
 - 10-2195 US 74 (Andrew Jackson Highway) WB at SR 1515 (Sardis Church Road)
 - 10-2196 (Master) US 74 (Andrew Jackson Highway) EB at SR 1377 (Wesley Chapel Stouts Road)
 - 10-2197 US 74 (Andrew Jackson Highway) at SR 1377 (Wesley Chapel Stouts Road) EB U-turn
 - 10-1505 US 74 (Andrew Jackson Highway) at SR 2356 (Chambers Drive)
 - Future wireless connection to this closed loop system will be completed under project U-5703 for signals associated with:
 - Existing 10-0656 US 74 (W. Roosevelt Boulevard) at SR 1007/1514 (N. Rocky River Road)

- For signal 10-1505, modify as follows:
 - Replace existing controller with 2070E in existing cabinet.
 - Replace existing conflict monitor with 2010 ECLIP-NC conflict monitor.
 - Replace existing wireless radio with new 900 MHz Ethernet Radio.
 - Reuse existing wireless antennas.
 - Install Ethernet Edge Switch.
 - Return all existing equipment that was replaced to the Division.
- Remove existing wireless communications equipment from the following existing signals when existing controller and cabinets are replaced. Return communications equipment to the Division along with the controller and cabinet.
 - Existing 10-0550 US 74 (Independence Boulevard) at SR 1008/1520 (Indian Trail-Fairview Road)
Proposed 10-2182, 10-2183, 10-2184, 10-2185
 - Existing 10-0649 US 74 (Independence Boulevard) at SR 1367 (Unionville-Indian Trail Road)
Proposed 10-2186, 10-2187, 10-2188, 10-2189
 - Existing 10-0713 US 74 (Andrew Jackson Highway) at Faith Church Road/Harris Teeter Distribution Center
Proposed 10-2190, 10-2191, 10-2192, 10-2193
 - Existing 10-1049 US 74 (Andrew Jackson Hwy) at SR 1515 (Sardis Church Rd)/SR 1377 (Wesley Chapel Stouts Rd)
Proposed 10-2194, 10-2195, 10-2196, 10-2197
- Wireless antennas to be installed on NCDOT signal poles. Coordinate with signal installation to ensure pole height is adequate.
- At new equipment locations, coordinate installation of a separate 2" conduit for coaxial cable in trench with signal cabling between the controller cabinet and pole for the antenna.



Systems 1 & 2

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

<p>DRMP ENGINEERS • PLANNERS • SCIENTISTS</p> <p><small>DRMP INC. 5650 FAIRVIEW ROAD, SUITE 320 CHARLOTTE, NC 28210 NC LICENSE NO. C-2213 • (704) 332-2289</small></p>	Prepared for the Offices of: <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>		Wireless Communications Plan (Indian Trail - CLS #1 & #2) along US 74 (Independence Blvd/ Andrew Jackson Highway)		SEAL <p>Lisa M. Moon 2/7/2017 DATE</p>
	Division 10 Union County Indian Trail	PLAN DATE: June 2015 REVIEWED BY: LM Moon	PREPARED BY: K Smith REVIEWED BY: JE Beck	REVISIONS INIT. DATE	

CADD File name: