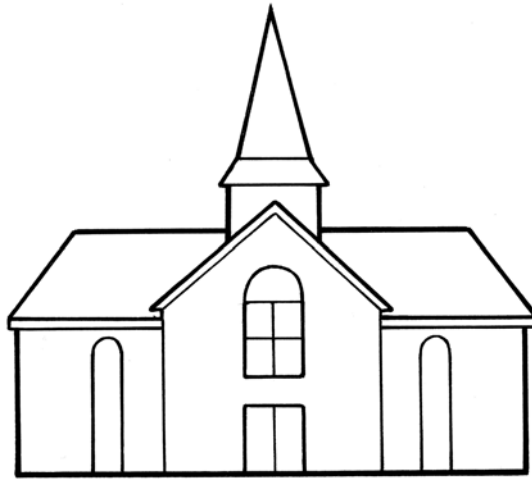


Barton Meetinghouse Standard Plan AP Placement Report



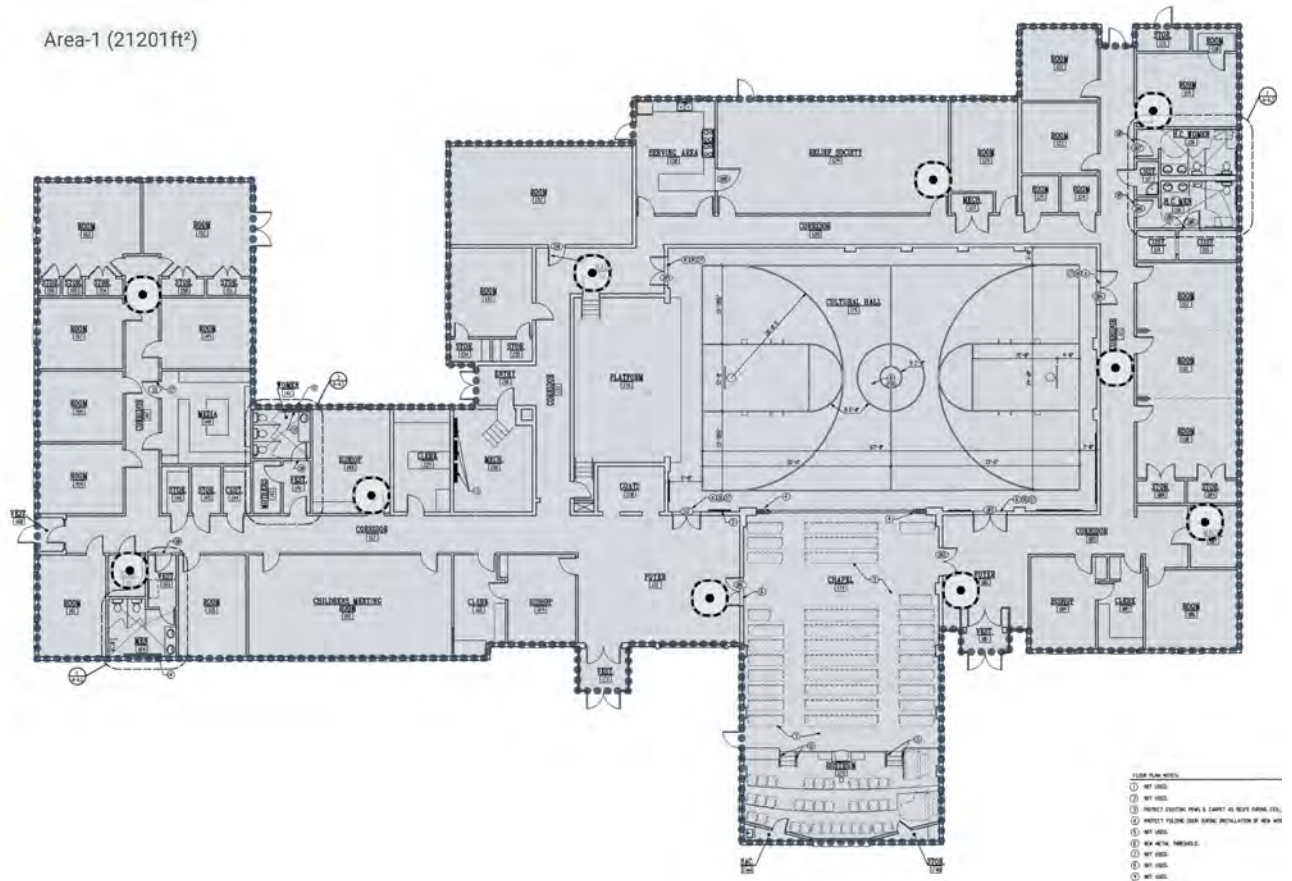
Completed by: **Jon Loutensock**
Completion date: 08/28/2025

Barton Meetinghouse Standard Plan AP Placement Report

Project description
The AP placement and signal strength predictions are based on assumptions made for signal propagation through interior wall materials. Based on those assumptions there will be a greater margin of error between the prediction and what may be experienced. Interior wall material was set as hollow block (cinderblock). Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary. The AP placement was made based on optimizing 5 GHz signals for primary signal strength. Secondary coverage was not a requirement. The C9172I access point is represented in this prediction. NOTE: There are some variations in the floor plan layouts in some of the buildings listed as a Barton Standard Plan. Access point placement in parallel locations in the variant plans should provide the required coverage.

Barton Meetinghouse Standard Plan Floor Plan

Survey routes and Access Points for Barton Meetinghouse Standard Plan Floor Plan



View as / Project Offset:

Mobile Device

Area-1 (21,201 ft²)

Coverage Requirement: **Ekahau Best Practices**

2.4 GHz	Signal Strength Min	-67.0 dBm
	Signal-to-Noise Ratio Min	20.0 dB
	Data Rate Min	24 Mbps
	Channel Interference Max	2 at min. -85.0 dBm
	Round Trip Time (RTT) Max	200 ms
	Packet Loss Max	0.0 %
5 GHz	Signal Strength Min	-67.0 dBm

Barton Meetinghouse Standard Plan AP Placement Report

	Secondary Signal Strength Min -67.0 dBm Signal-to-Noise Ratio Min 25.0 dB Data Rate Min 24 Mbps Channel Interference Max 1 at min. -85.0 dBm Round Trip Time (RTT) Max 200 ms Packet Loss Max 0.0 %
6 GHz	Signal Strength Min -67.0 dBm Secondary Signal Strength Min -67.0 dBm Signal-to-Noise Ratio Min 25.0 dB Data Rate Min 24 Mbps Channel Interference Max 1 at min. -85.0 dBm Round Trip Time (RTT) Max 200 ms Packet Loss Max 0.0 %
Capacity Requirement	No capacity devices for this area
Notes	

Barton Meetinghouse Standard Plan AP Placement Report

Signal Strength for Barton Meetinghouse Standard Plan Floor Plan on 2.4 GHz band

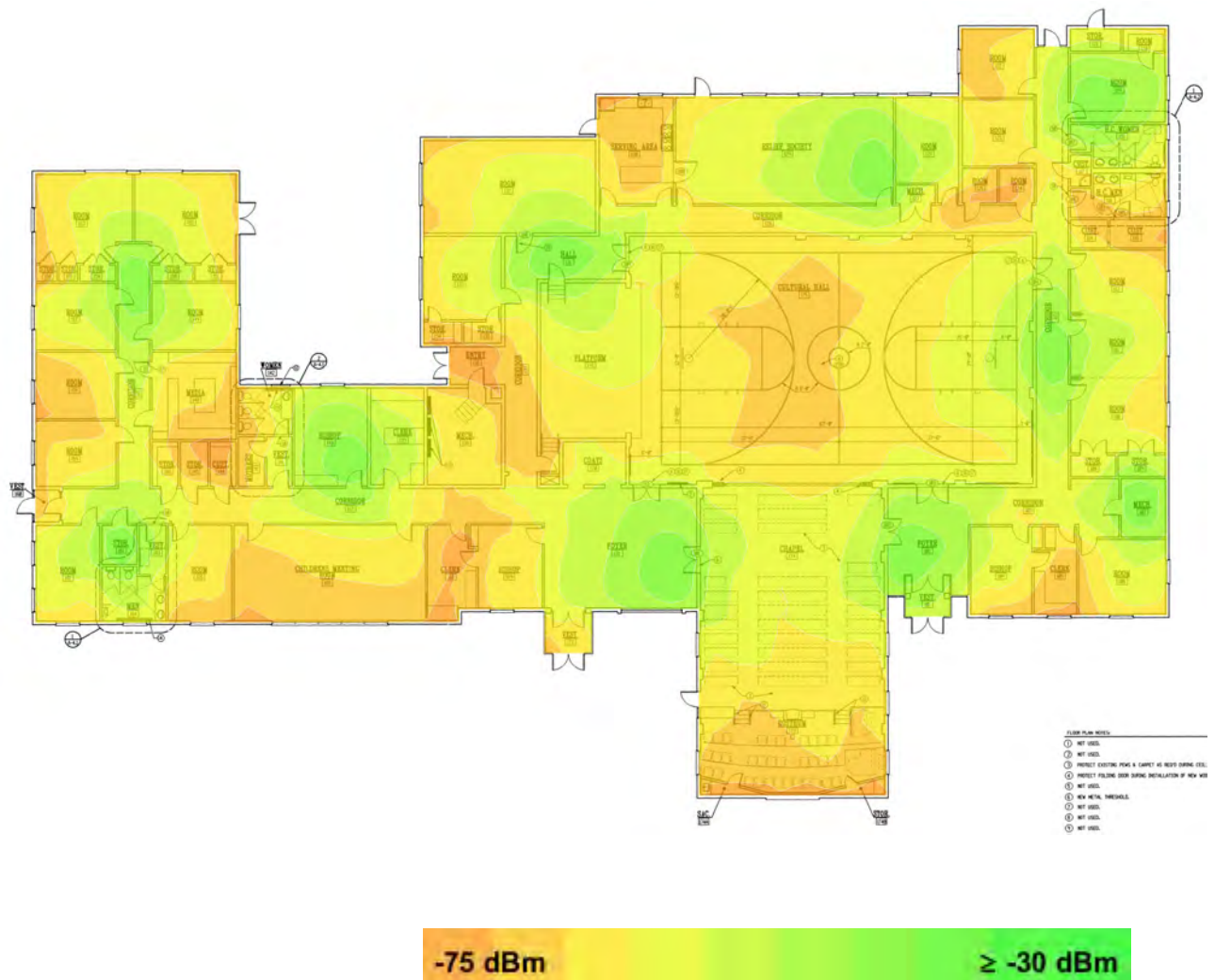
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



Barton Meetinghouse Standard Plan AP Placement Report

Signal Strength for Barton Meetinghouse Standard Plan Floor Plan on 5 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



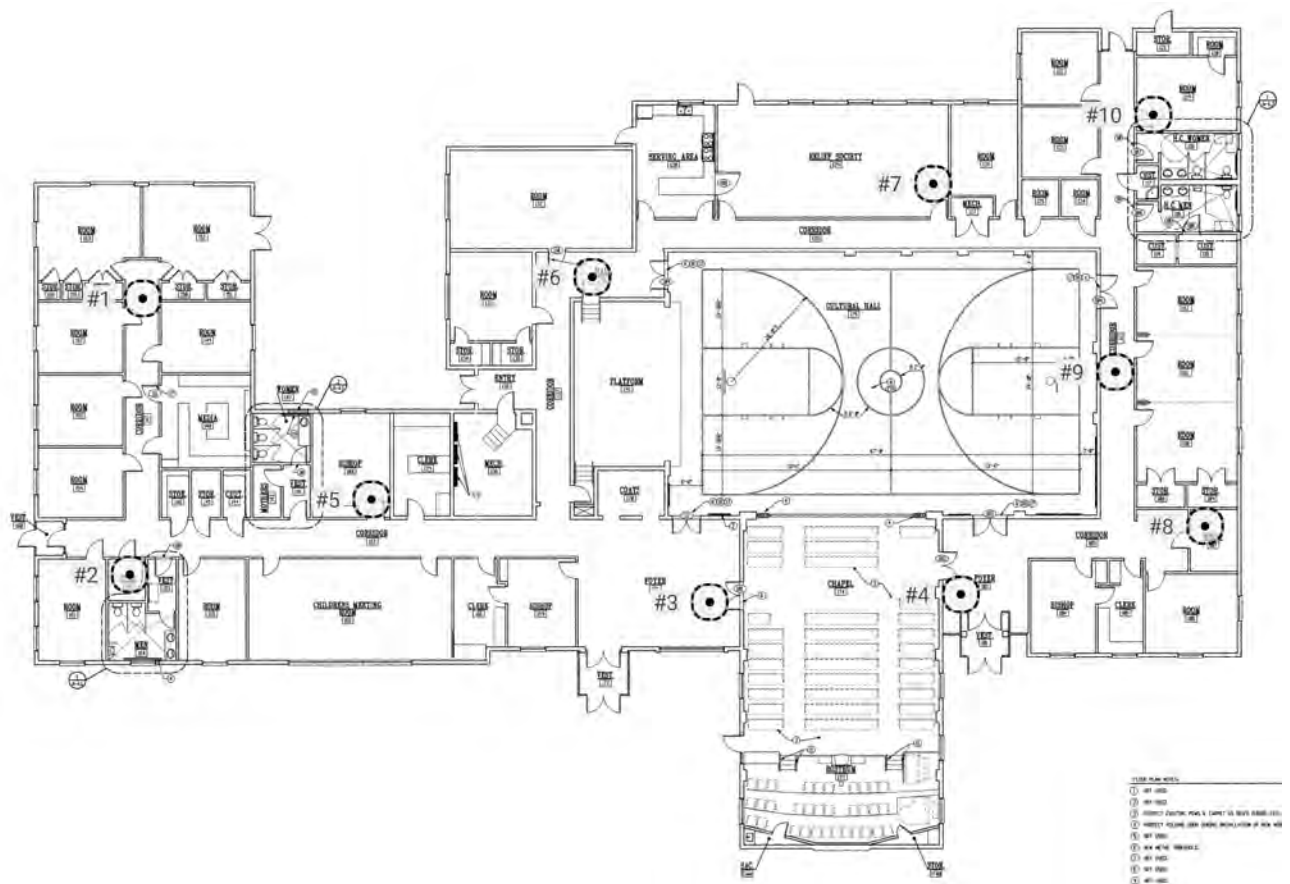
Barton Meetinghouse Standard Plan AP Placement Report

Signal Strength for Barton Meetinghouse Standard Plan Floor Plan on 6 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



Access Points on Barton Meetinghouse Standard Plan Floor Plan



Access Points on Barton Meetinghouse Standard Plan Floor Plan

Simulated Access Points on Barton Meetinghouse Standard Plan Floor Plan

AP #	Access Point			
1	Simulated AP-001		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
2	Simulated AP-002		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz

Barton Meetinghouse Standard Plan AP Placement Report

	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
3	Simulated AP-003		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
4	Simulated AP-004		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
5	Simulated AP-005		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
6	Simulated AP-006		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
7	Simulated AP-007		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz

Barton Meetinghouse Standard Plan AP Placement Report

	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
8	Simulated AP-008		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
9	Simulated AP-009		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
10	Simulated AP-010		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE