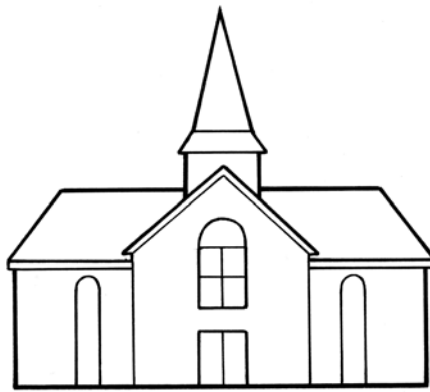


# Davis Meetinghouse Standard Plan AP Placement Report



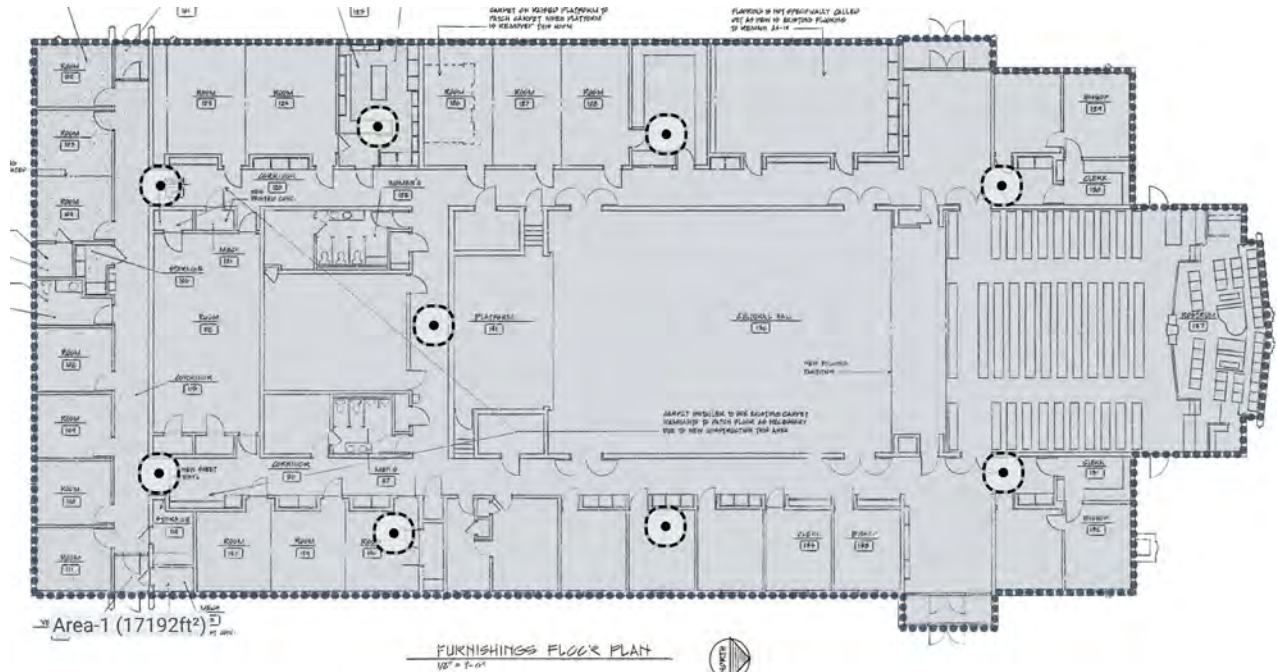
Completed by: **Jon Loutensock**  
Completion data: 08/28/2025

## Davis Meetinghouse Standard Plan AP Placement Report

Project description
<p>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.</p> <p>Interior wall material was set as hollow block (cinderblock).</p> <p>Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary.</p> <p>The AP placement was made based on optimizing 5 GHz signals for primary signal strength. Secondary coverage was not a requirement.</p> <p>The C9172I access point is represented in this prediction.</p>

## Davis Meetinghouse Standard Plan

### Survey routes and Access Points for Davis Meetinghouse Standard Plan



View as / Project Offset:	Mobile Device
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### Area-1 (17,192 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
	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

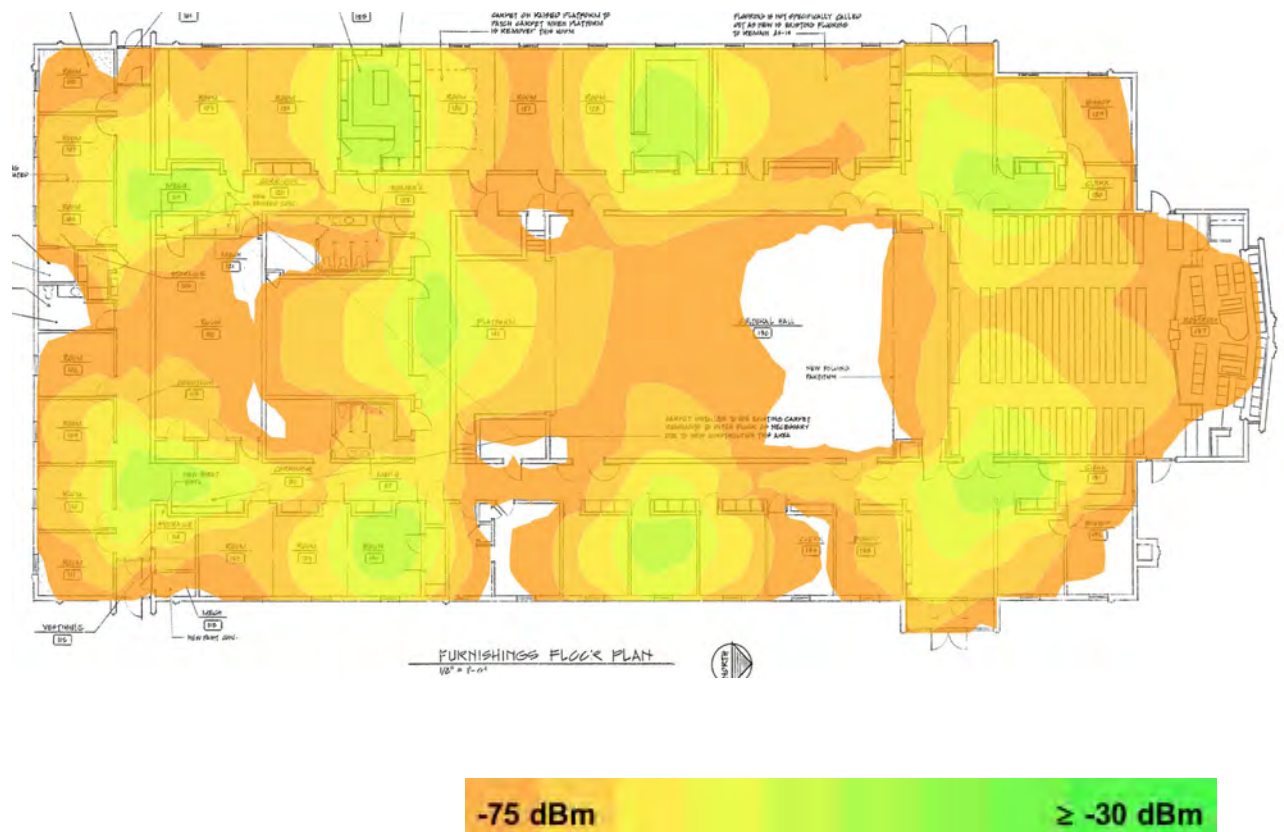
## Davis Meetinghouse Standard Plan AP Placement Report

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

## Davis Meetinghouse Standard Plan AP Placement Report

### Signal Strength for Davis Meetinghouse Standard 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.



## Davis Meetinghouse Standard Plan AP Placement Report

### Signal Strength for Davis Meetinghouse Standard 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.



## Davis Meetinghouse Standard Plan AP Placement Report

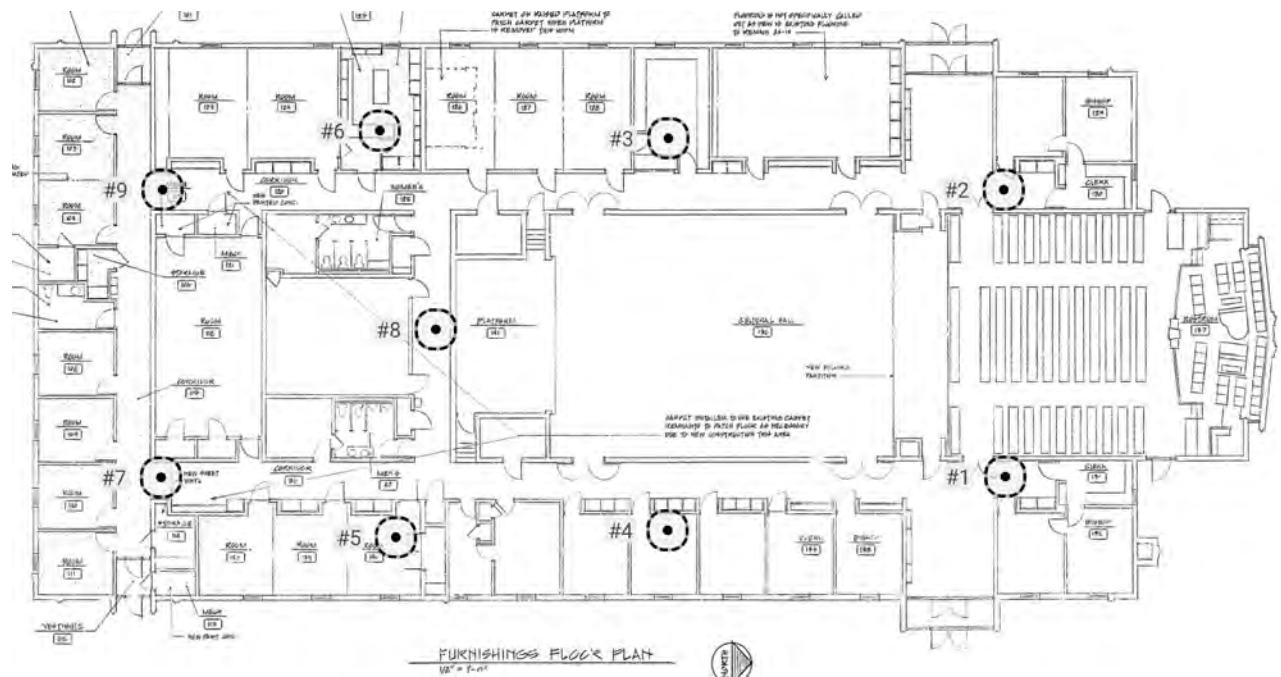
### Signal Strength for Davis Meetinghouse Standard Plan on 6 GHz band

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 Davis Meetinghouse Standard Plan





## Access Points on Davis Meetinghouse Standard Plan

### Simulated Access Points on Davis Meetinghouse Standard 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
	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-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
4	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
5	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

## Davis Meetinghouse Standard Plan AP Placement Report

	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
6	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
7	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
8	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
9	Simulated AP-011		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