

Smart Building Technology and Hybrid Work Solutions

Cisco Talent and Collaboration Centers

Medium Brainstorming Room Design Guide



Overview and Intent

This document provides guidance on how to effectively design a Medium Brainstorming Room.

This design brings space layout, technology and furnishings together to create an optimal experience for those present locally and for remote attendees.

Each customer project is unique. Thus, it is important to involve local facilities teams, workplace design resources, architects and space designers, IT and a Cisco-certified integrator. The collective goal is to finalise the details of any design, verify the applicability and address any local concerns – electrical/mechanical, orientation and location of the room within the floor plan, accessibility, circulation – and external factors such as noise, light and temperature.

Room Description

This brainstorming space is built for when larger groups need to ideate. The table orientation and shape ensure everyone can be seen and heard, and the density of the space is gracious, allowing ample space to move within the room. The Cisco Board Pro 75 is multi functional, enabling video calls, content sharing and whiteboarding.

Supported Collaboration Activities

Information Sharing	✓
Brainstorming	✓
Team Building	✓
Decision Making	✓

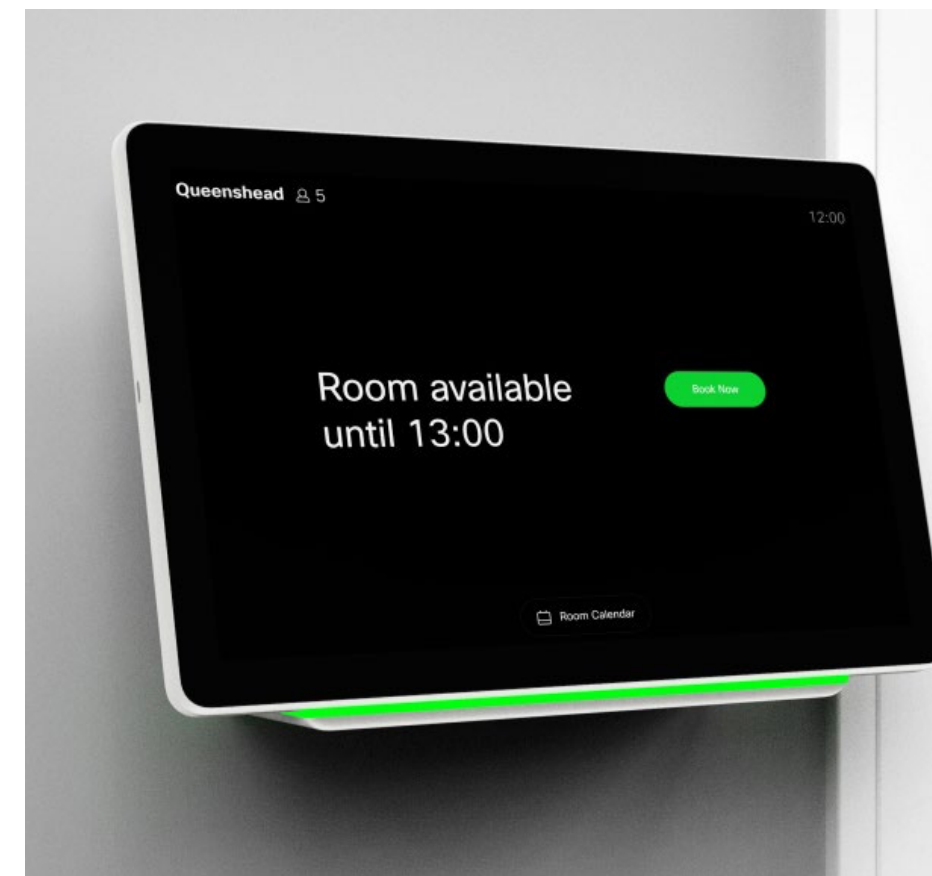
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Visualisation of key Cisco elements

Medium Brainstorming Room



Cisco Board Pro 75



Cisco Room Navigator for Wall



Cisco Room Navigator for Table

Video Device Mounting Options

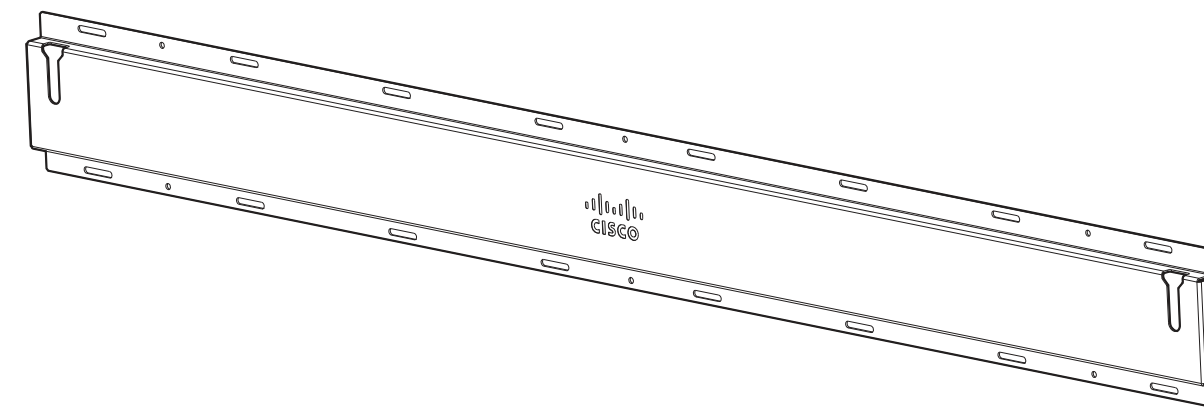
Medium Brainstorming Room

There are two mounting options for the video device in the Medium Brainstorming Room, directly on the wall or leveraging an A/V compatible credenza. Several factors will go into determining which option is best.

Option 1: Wall Mount

Cisco Board Pro 75 Mounting Bracket – Requires wall to be blocked and electrical and data to be elevated.

Board Pro 75



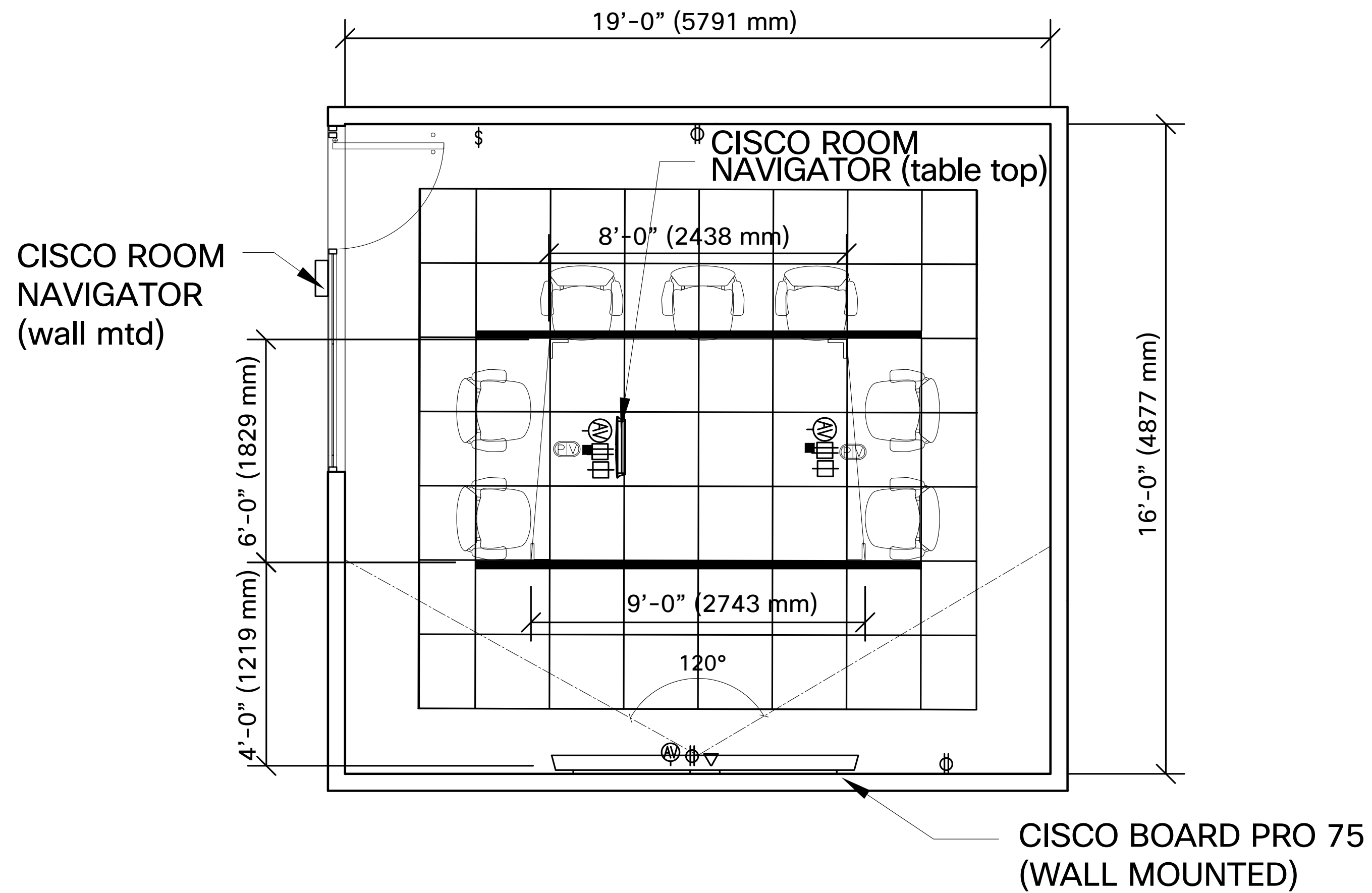
Option 2: Credenza Option

Low profile A/V compatible credenza – Fully integrated cabinets available from a number of specialised vendors, many eliminate the requirement for the wall to be blocked and electrical moved. Perfect for new and retrofit installations, allowing for quick and efficient installation. Check with manufacturers for specific details.



Composite Plan

Medium Brainstorming Room



Graphics Symbols



LIGHT FIXTURES

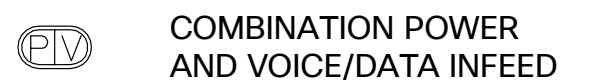


FURNITURE SYSTEMS MOUNTED DEVICES



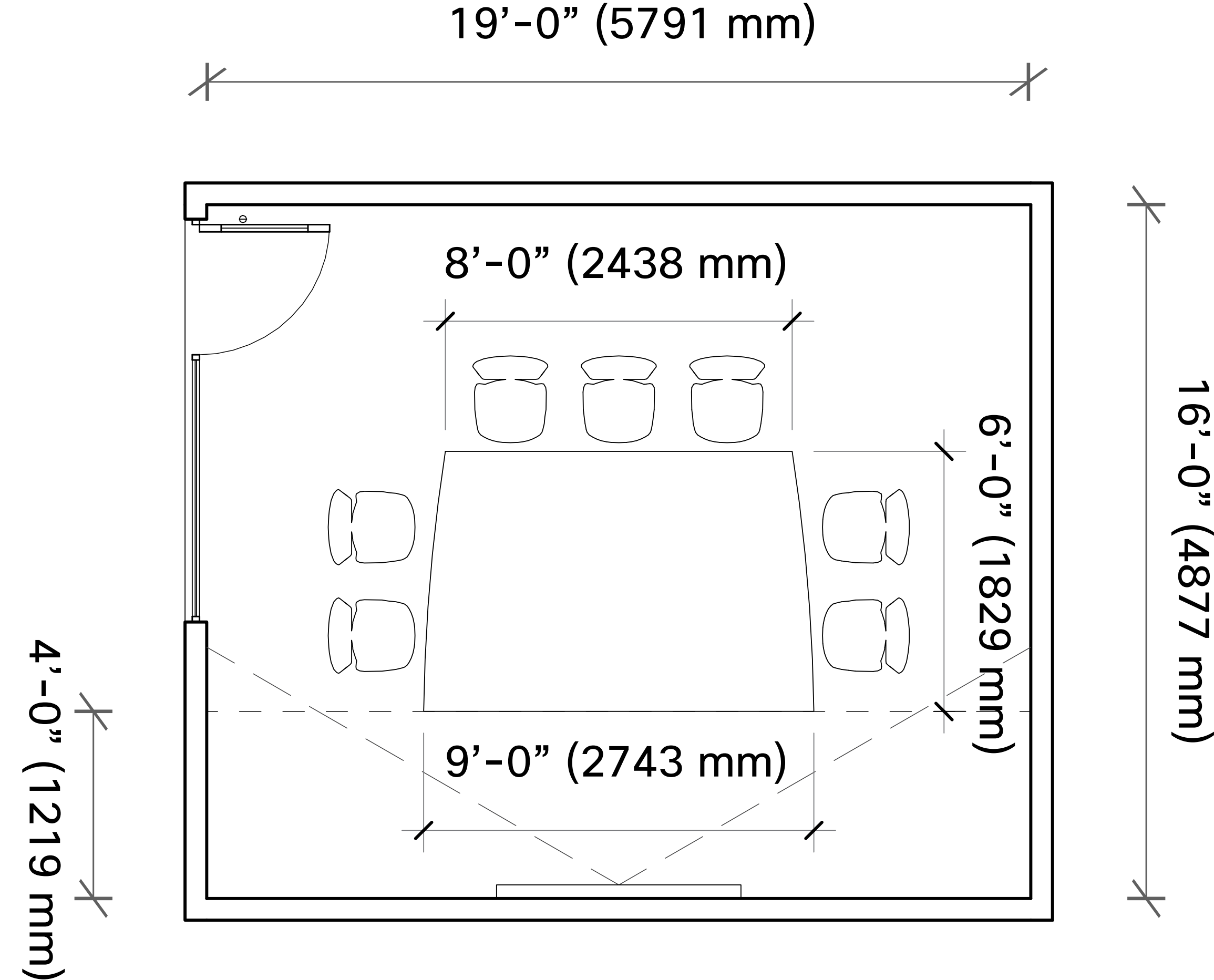
POWER AND COMMUNICATION

WALL/CEILING/FLOOR MOUNTED DEVICES



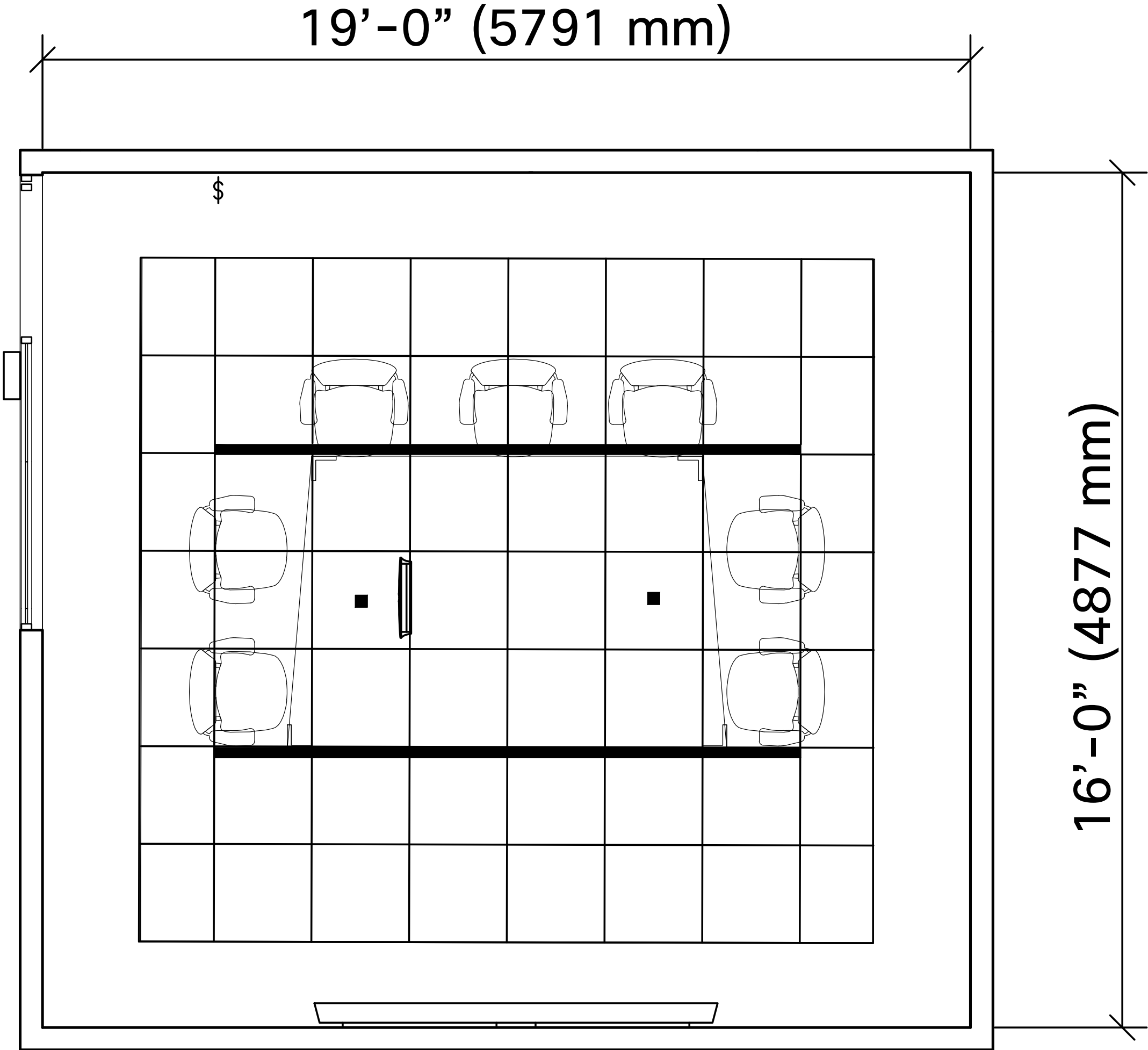
Room Layout

Medium Brainstorming Room

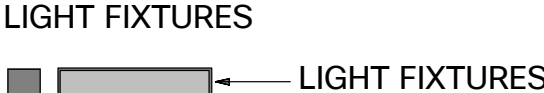
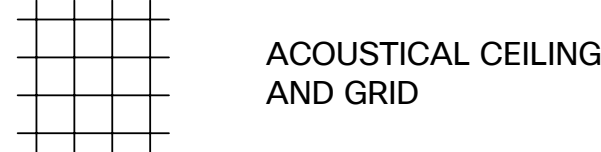


Reflective Ceiling Plan

Medium Brainstorming Room



Graphics Symbols



FURNITURE SYSTEMS MOUNTED DEVICES



POWER AND COMMUNICATION

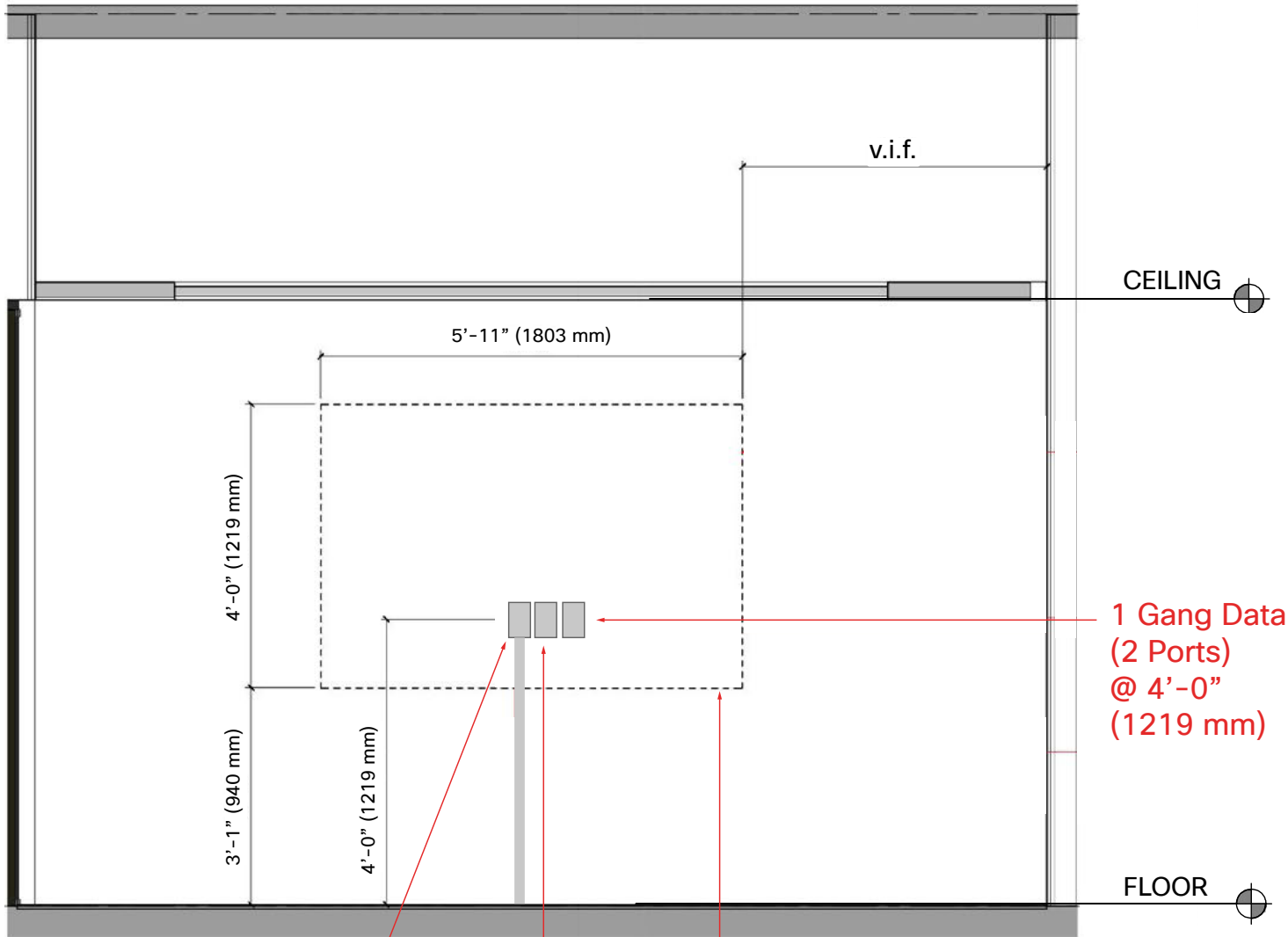
WALL/CEILING/FLOOR MOUNTED DEVICES



Room Elevations

Medium Brainstorming Room

Conduit Elevation

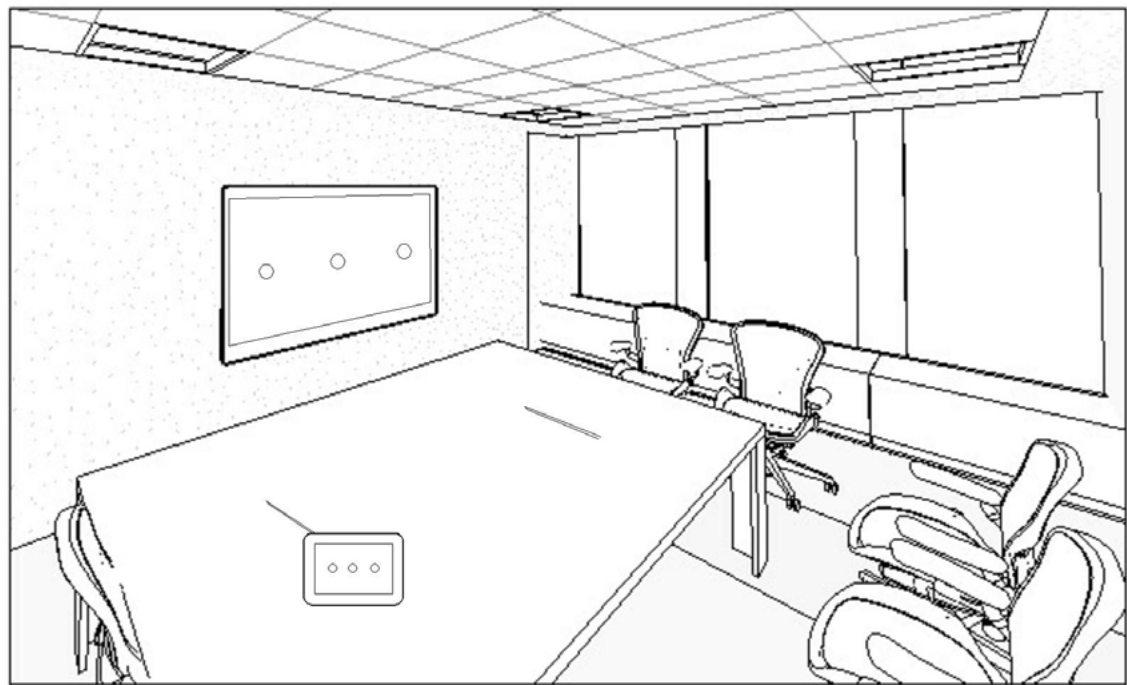


AV Cable Pass-thru, rigid plastic 1.5" (38 mm) conduit to accessible floor below

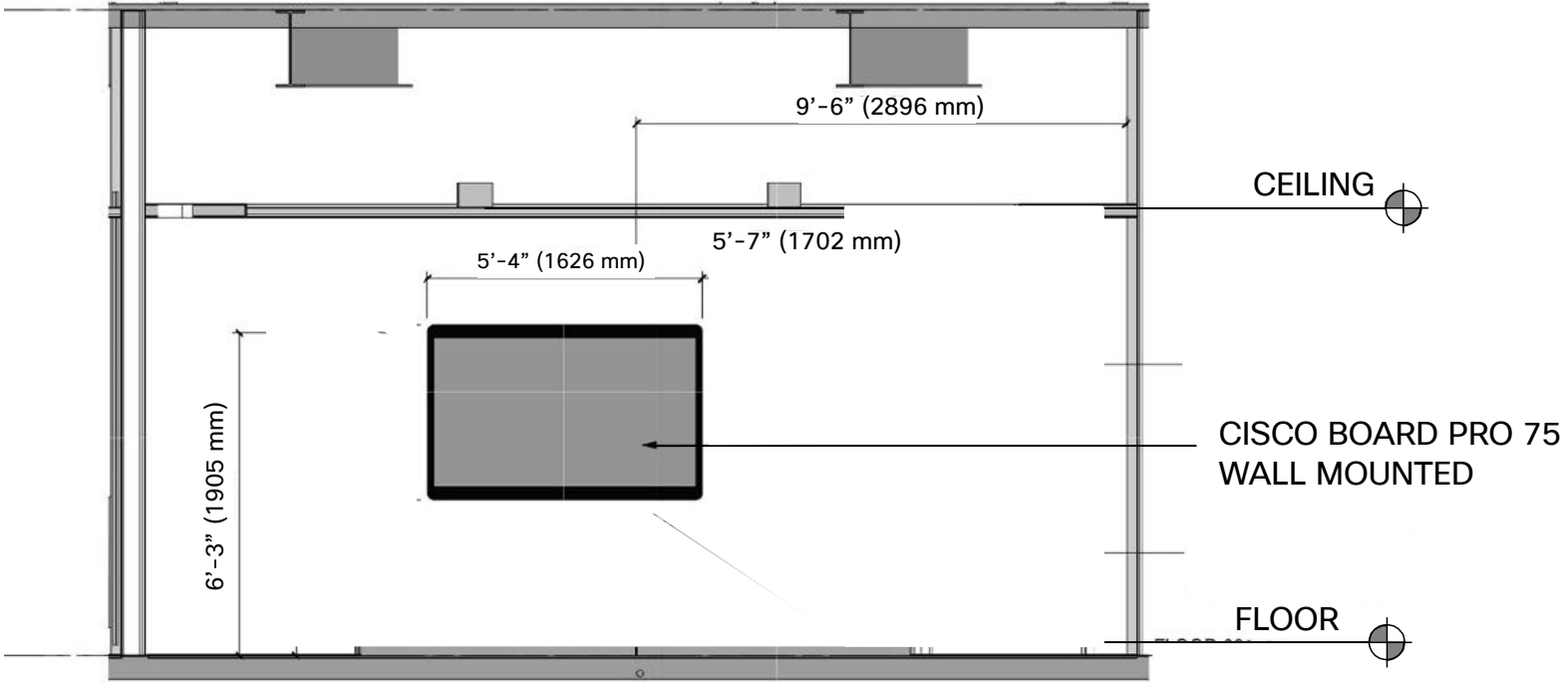
1 Gang Power @ 4'-0" (1219 mm)

11-Ply (or similar approved), prior to screen installation. Steel fixings must be able to support screen specification. Wall should be made to match existing wall finish

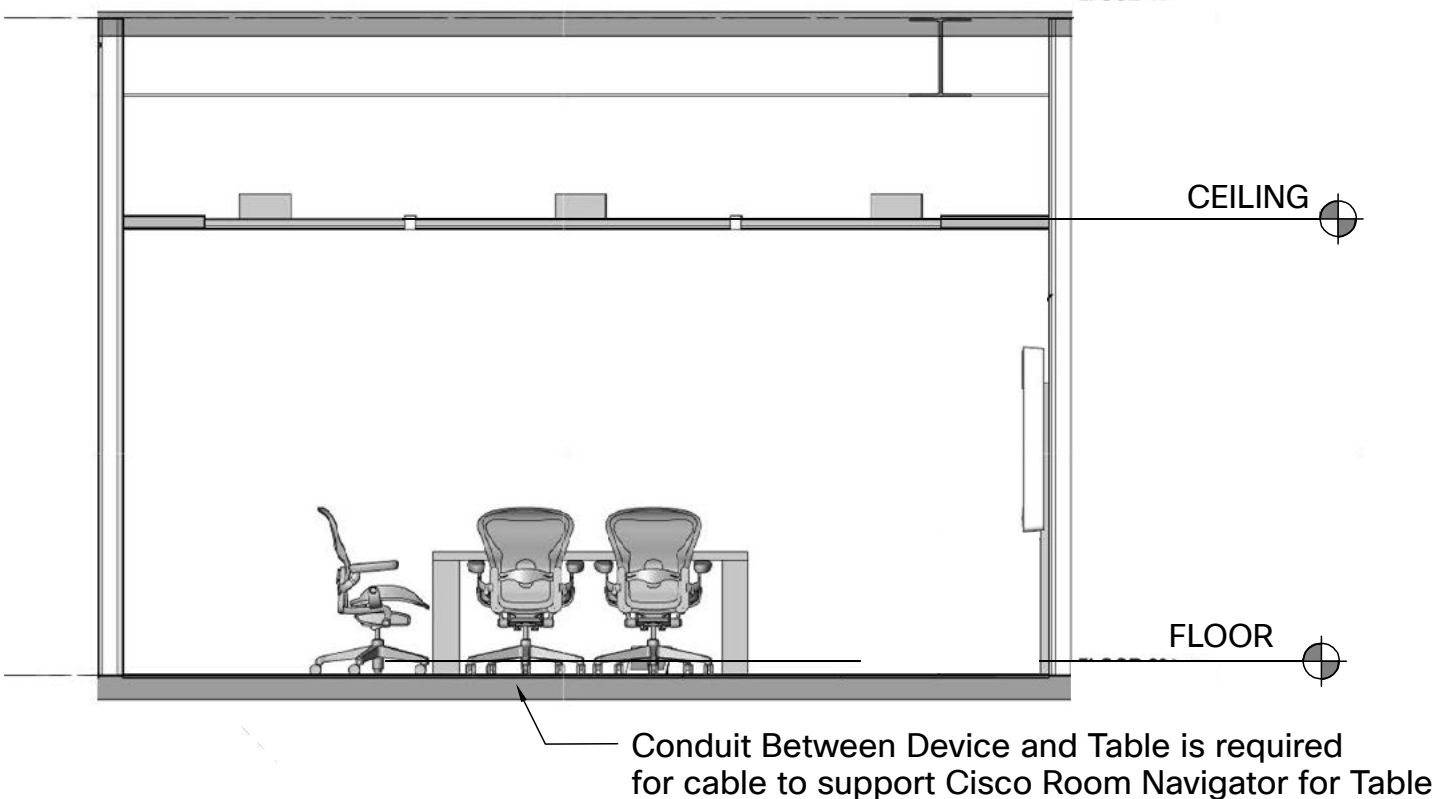
Perspective View



Front Elevation

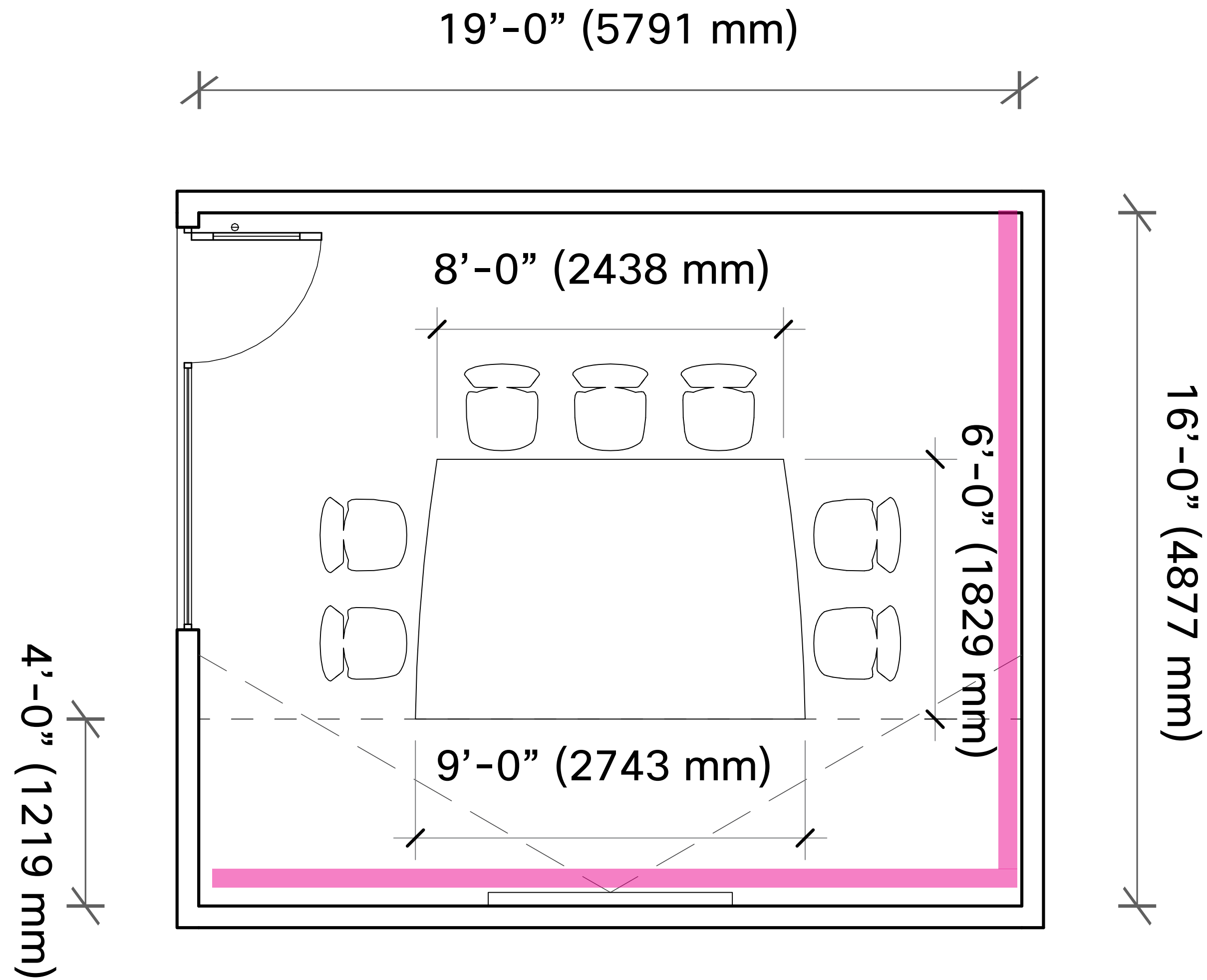


Side Elevation



Acoustical Treatment

Medium Brainstorming Room



Power and Data

Medium Brainstorming Room

General Specifications

Power/data requirements need to be verified for each project. Provide video device power/data even if project plan does not include it day one. Based on the design of this space, core drills and floor boxes will be required.

Power and Data

If wall mounted, provide two (2) recessed data jacks and dual plugs on wall behind video device. If using a credenza, power and data can be at standard height, in accordance with local regulations.

Power in Tabletop

User power should be surface mounted in tabletop. If pop-ups or table wells are used it is important to verify that they can accommodate all laptop power supplies. Provide shared power – 1 power port for every two seats.

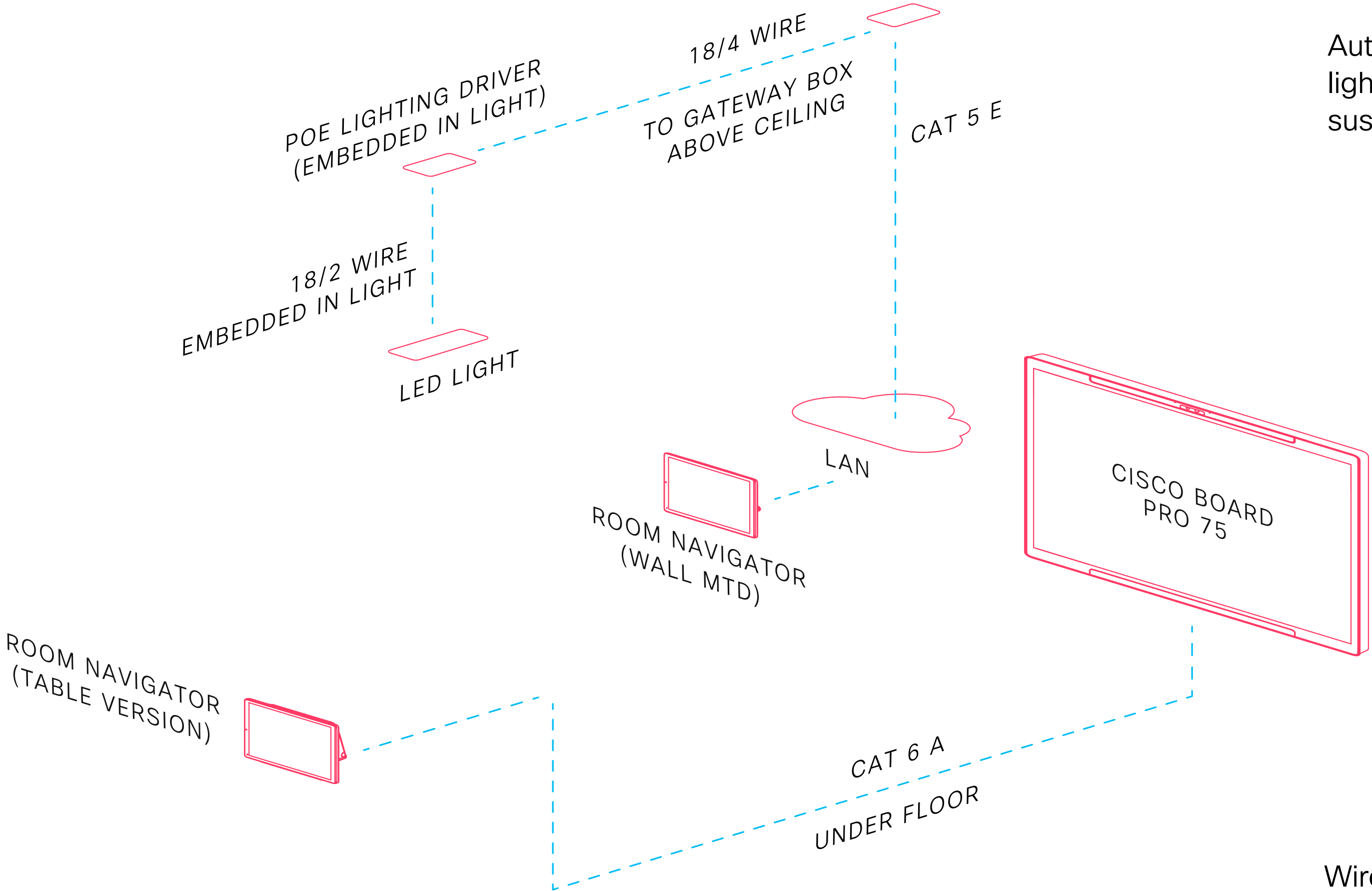
Exploded IT Diagram

Medium Brainstorming Room

Occupancy sensing for space/room booking insights and energy optimisation for sustainability goals

Core drilling required
Need ceiling elements
Wall blocking required (when device is wall mounted)

Consideration: USBC charging and convenience outlets on the tabletop for occupant convenience



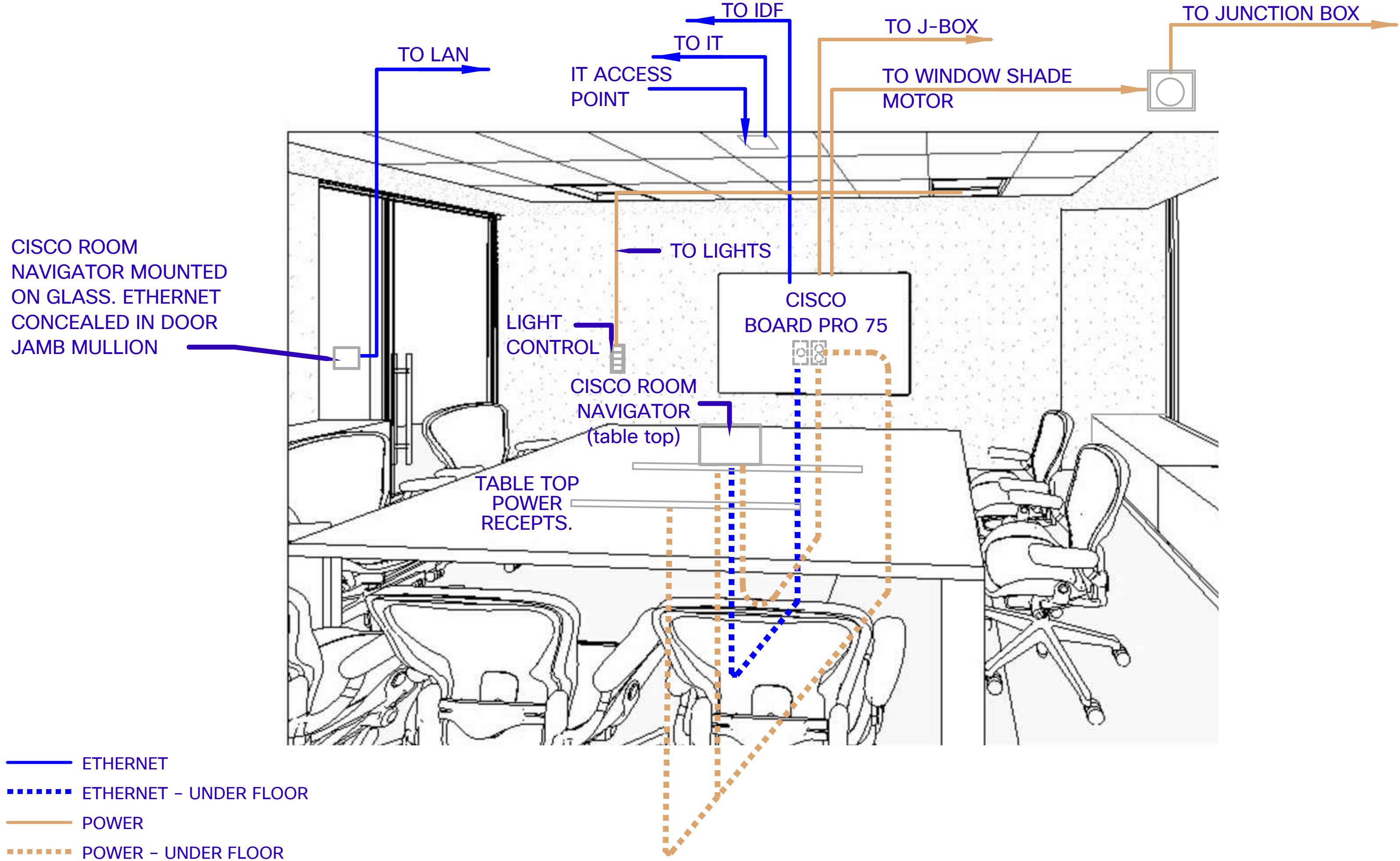
Automated POE lighting for LEED and sustainability goals

Wireless sharing for ease of collaboration

Audio reinforcement devices and quantity dictated by room size/layout

Connectivity View

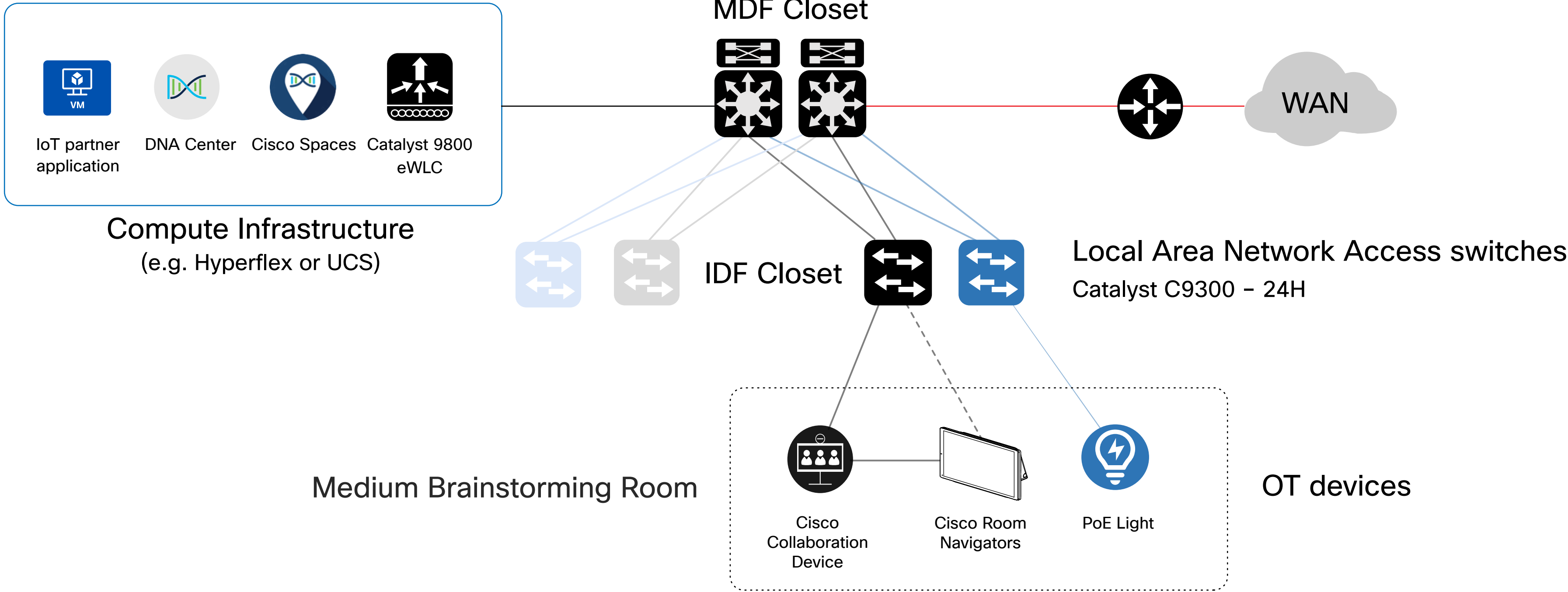
Medium Brainstorming Room



IT/OT Reference Architectures

Medium Brainstorming Room

- Separate IT and OT network layout
- Port based DHCP allocation
- 90W UPoE+



- OT Network and devices
- IT Network and devices
- Alternate connectivity option

IT/OT Bill of Material

Medium Brainstorming Room

Cisco Products

- **CS-BRD75P-K9** Cisco Board Pro 75
- **CS-BRD75P-WMK=** Cisco Board Pro 75 Wall Mount (Optional)
- **CS-T10-TS-K9=** Cisco Room Navigator for Table
- **CS-T10-WM-K9=** Cisco Room Navigator for Wall

IOT Considerations

- IAQ coming from the Cisco Room Navigator, no additional IoT IAQ
- Occupancy sensing is coming from the Cisco Endpoints and IoT sensor
- Suggested lighting specifications: 220LPW raw, 140LPW delivered
- Each Medium Collaboration room POE lights being powered by 4 ports on the ceiling
- Traditional DC Wall Switch
- Ensure device is not connected to ASHRAE 90.1 outlet

External microphones and speakers

- Mic and speakers are embedded in the Cisco Endpoints, no additional mic or speakers required
-

Commissioning – User Acceptance Testing (UAT) Criteria (Sample)

Medium Brainstorming Room

OT/Space Testing

- Verify manual adjustment of lights, blinds and environmental controls are operational from wall controls
- Confirm lighting occupancy sensor is functional
- Check any tabletop power and data functionality
- Verify any smart buildings integrations are working properly

IT Testing

- Internet connectivity of Cisco Collaboration device
- Initiate test calls on video endpoint (via Board Pro 75, Webex app and voice controls)
- Validate environmental metrics are being displayed on collaboration device and Room Navigator
- Confirm help videos are loaded
- Confirm that Room Navigator – Wall is powered and that booking function is working properly. Check that booking function is also available within the room on the Room Navigator – Table version
- Verify the Cisco Smart Workspaces display is showing proper presence status



Resources

Guide: Best Practices for Creating Effective Video-enabled Rooms

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