

Project Scope of Work – Wiring Infrastructure & Audio/Video

This documentation outlines the scope of work for the **PACL – East Office** which is located at **300 Penn Center Boulevard, Suite - 8th Floor, Pittsburgh, PA 15235**. It will discuss the requirements for the internal wiring and equipment specifications related to the installation of the IT, audio/video, security, cameras, and door access control.

Type of Wire Location	Type of Wiring Included	
State Data Outlet	(1) State Data (1) Non-State Data (1) Non-State Voice (1) 3-Port Keystone Plate	CAT6 Plenum – White CAT6 Plenum – Blue CAT6 Plenum – Green Keystone Plate w/ Label
State Data Only	(1) State Data (1) 1-Port Keystone Plate	CAT6 Plenum – White Keystone Plate w/ Label
Non-State Data-Only	(1) Non-State Data (1) 1-Port Keystone Plate	CAT6 Plenum – Blue Keystone Plate w/ Label
Non-State Voice-Only	(1) Non-State Voice (1) 1-Port Keystone Plate	CAT6 Plenum – Green Keystone Plate w/ Label
Non-State Data & Voice	(1) Non-State Data (1) Non-State Voice (1) 2-Port Keystone Plate	CAT6 Plenum – Blue CAT6 Plenum – Green Keystone Plate w/ Label
Room Schedule Touch Panel	(1) Non-State Data (1) RJ45 Male Plug End	CAT6 Plenum - Blue RJ45 Male Plug End
Television & Conference Tables	(2) Non-State Data (1) 2-Port Keystone Plate	CAT6 Plenum - Blue Keystone Plate w/ Label
Wireless Access Point	(1) Non-State Data (1) 1-Port Biscuit Box	CAT6 Plenum – Yellow Keystone Biscuit Box
Wired CCTV Camera	(1) Non-State Data (1) 1-Port Biscuit Box	CAT6 Plenum – Yellow Keystone Biscuit Box
Door Access Control	(1) Non-State Data (1) 1-Port Biscuit Box	CAT6 Plenum – Yellow Keystone Biscuit Box
In-Ceiling Speaker	Bare wire for speaker.	16/4 AWG Plenum - White
Sound Masking	Bare wire for speaker.	16/4 AWG Plenum - White

Meeting Room [082] // Small Conference Room

The purpose of this conference room is to have small huddle meetings where a wireless or wired connection via HDMI is to be transmitted to a mounted television on the wall. There will be (2) data cables run from the television location and (2) data cables run from the floor box back to the equipment room, terminated to a patch panel.

Equipment to be furnished and installed by vendor...

- 55" Flat Panel Television
- Medium Tilting Wall Mount
- **OPTION 1:** Wireless HDMI Device
- **OPTION 2:** Wired HDMI Table Input

Meeting Room [080] // Medium Conference Room

The purpose of this conference room is to have medium huddle meetings where a wireless or wired connection via HDMI is to be transmitted to a mounted television on the wall. A conferencing media bar or similar is to be installed to add video call capabilities with a USB connection provided at the table. There will be (2) data cables run from the television location and (2) data cables run from the floor box back to the equipment room, terminated to a patch panel.

Equipment to be furnished and installed by vendor...

- 86" Flat Panel Television
- Large Tilting Wall Mount
- **OPTION 1:** Wireless HDMI Device
- **OPTION 2:** Wired HDMI Table Input
- **OPTION 1:** All-in-One USB Conferencing Media Bar
- **OPTION 2:** Audio Conferencing Microphone & Camera

Meeting Room [089] // Small Conference Room

The purpose of this conference room is to have small huddle meetings where a wireless or wired connection via HDMI is to be transmitted to a mounted television on the wall. There will be (2) data cables run from the television location and (2) data cables run from the floor box back to the equipment room, terminated to a patch panel.

Equipment to be furnished and installed by vendor...

- 55" Flat Panel Television
- Medium Tilting Wall Mount
- **OPTION 1:** Wireless HDMI Device
- **OPTION 2:** Wired HDMI Table Input

Training Room [044] // Large Training Room

The purpose of this training room is to conduct large group in-person training sessions. Two (2) large televisions will be mounted at the front of the room with an HDMI connection at the podium between the televisions. This connection is to be a port on the podium. Audio is to be extracted from the connected device and played over (6) speakers in the ceiling. A small touch screen is to be installed at or near the podium to control televisions, sources, volume, etc.

Equipment to be furnished and installed by vendor...

- (x2) 86" Flat Panel Television
- (x2) Large Articulating Wall Mount
- Podium Input for client provided laptop.
- Ceiling speakers and amplifier for TV and microphones.
- Control system and touch panel to control included equipment.

Assessment Lab [090] // Assessment Laboratory

The purpose of the assessment lab is to allow users computer access and trainings from a wall mounted monitor. A USB and HDMI connection is to be installed for a client provided computer in this room. There will be (2) data cables run from the television location and (2) data cables run from a wall plate to the equipment room, terminated to a patch panel.

Equipment to be furnished and installed by vendor...

- 55" Flat Panel Television
- Medium Tilting Wall Mount
- Wired USB and HDMI wall port.

Reception Area [077] // Waiting Area

The purpose of this room is for waiting guests to be able to view a mounted television that will have a digital signage piece installed on it. BrightSign is the recommended device for this application. Content for this device will be provided by the end-user. There will be (2) data cables run from this television to the equipment room, terminated to a patch panel.

Equipment to be furnished and installed by vendor...

- 55" Flat Panel Television
- Portrait-Capable Wall Mount
- BrightSign Digital Media Player

Wellness Room [086] // Relaxation Room

The purpose of this room is a space for attendees to have a space for relaxing and separation from the crowd. A television will be mounted on the wall for a streaming device to be connected for access to content.

Equipment to be furnished and installed by vendor...

- 55" Flat Panel Television
- Medium Tilting Wall Mount
- Content Streaming Device (i.e. Roku, AppleTV, etc.)

Room Scheduling & Assignment

The purpose of the Room Scheduling device is to allow the staff to claim, assign, and reserve the included rooms. The end-user will be responsible for use of the system and their IT staff will assist with this equipment management. There will be (1) data cable run to each touch panel location terminated with a RJ45 end and terminated to a patch panel in the IT closet.

Equipment to be furnished and installed by vendor...

- Wall mount table to show room scheduling software
- Ensure integrating with the calendar software being used.

Sound Masking & Dampening

The purpose of the sound masking in the Open Office [028] is to eliminate as much sound as possible from cubicle to cubicle and general space around the seating areas.

Equipment to be furnished and installed by vendor...

- Speakers mounted above the ceiling for sound dampening.
- Sound masking equipment to be installed in the main IT closet.

CCTV & Door Access Control

The purpose of the CCTV is to provide general coverage for areas specified by the client for security and safety of the persons using this facility. Door access control will be installed to limit access to staff-only locations within the space.

Equipment to be furnished and installed by vendor...

- Cameras (4-MP) and appropriate recorder with 30-days of storage.
- Cloud-based door access for staff-only doors designated in the space.

Emergency (Third-Party) Paging System

The purpose of this is to have a button installed that when activated, it will notify a third-party of an emergency and send additional assistance.

Equipment to be furnished and installed by vendor...

- Hidden button accessible via the staff at the reception desk.

Equipment Room & MDF Wire Infrastructure

Within the suite, a demarcation wiring extension needs to be made between the main building IDF and the suite's MDF. This is to include (2) separate wire bundles, which is broken out below. There will be (2) racks (4-Post) installed in the MDF with the appropriate patch panels, wire management, and upper-level cable management to keep the room organized and easily accessible by all vendors.

Equipment to be furnished and installed by vendor...

- State Demarcation Wiring Infrastructure
 - o (1) Duplex Multimode Fiber
 - o (2) CAT6 Plenum Data Cable - White
 - o (10) CAT6 Plenum Voice Cable – White
 - o All data cabling to be terminated appropriately in rooms
 - o All voice cabling to be terminated to a rack-mount 110-block
- Non-State Demarcation Wiring Infrastructure
 - o (1) Duplex Multimode Fiber
 - o (2) CAT6 Plenum Data Cable – Blue
 - o (10) CAT6 Plenum Voice Cable – Green
 - o All data cabling to be terminated appropriately in rooms
 - o All voice cabling to be terminated to a rack-mount 110-block

➔ Please see the next page for example of how the suite MDF room should be setup and rack layout for the state IT rack and the non-state IT rack.



