

ELECTRICAL ADDENDUM NO. E-03

**City of Toronto Castle Wynchwood
Towers Interior & Exterior Renovation**
Job No: 24503

Montgomery Sisam Architects
Date: 2025-05-01

Total Number of Pages: 1

This Addendum becomes part of the Bid Documents and will be considered to have been included in the Tender. Additions, deletions, and revisions shall be incorporated in the Bid Documents as hereinafter described.

1.0 DRAWINGS:

- 1.1 E100
 - 1.1.1 Basement telecom/phone room identified on site plan for reference.
 - 1.1.2 Provide master video intercom with door release at level 3 RNIC room.
- 1.2 E300
 - 1.2.1 Provide new intercom system as shown in appendix A. Locate in telecom/ phone room in basement.
 - 1.2.2 New intercom devices are to connect to new intercom system.
 - 1.2.3 Replace existing intercom at the west vestibule door with a new video intercom connected to new intercom system.
- 1.3 ED0
 - 1.3.1 Remove existing intercom at west vestibule door. Intercom to be replaced with new video intercom.

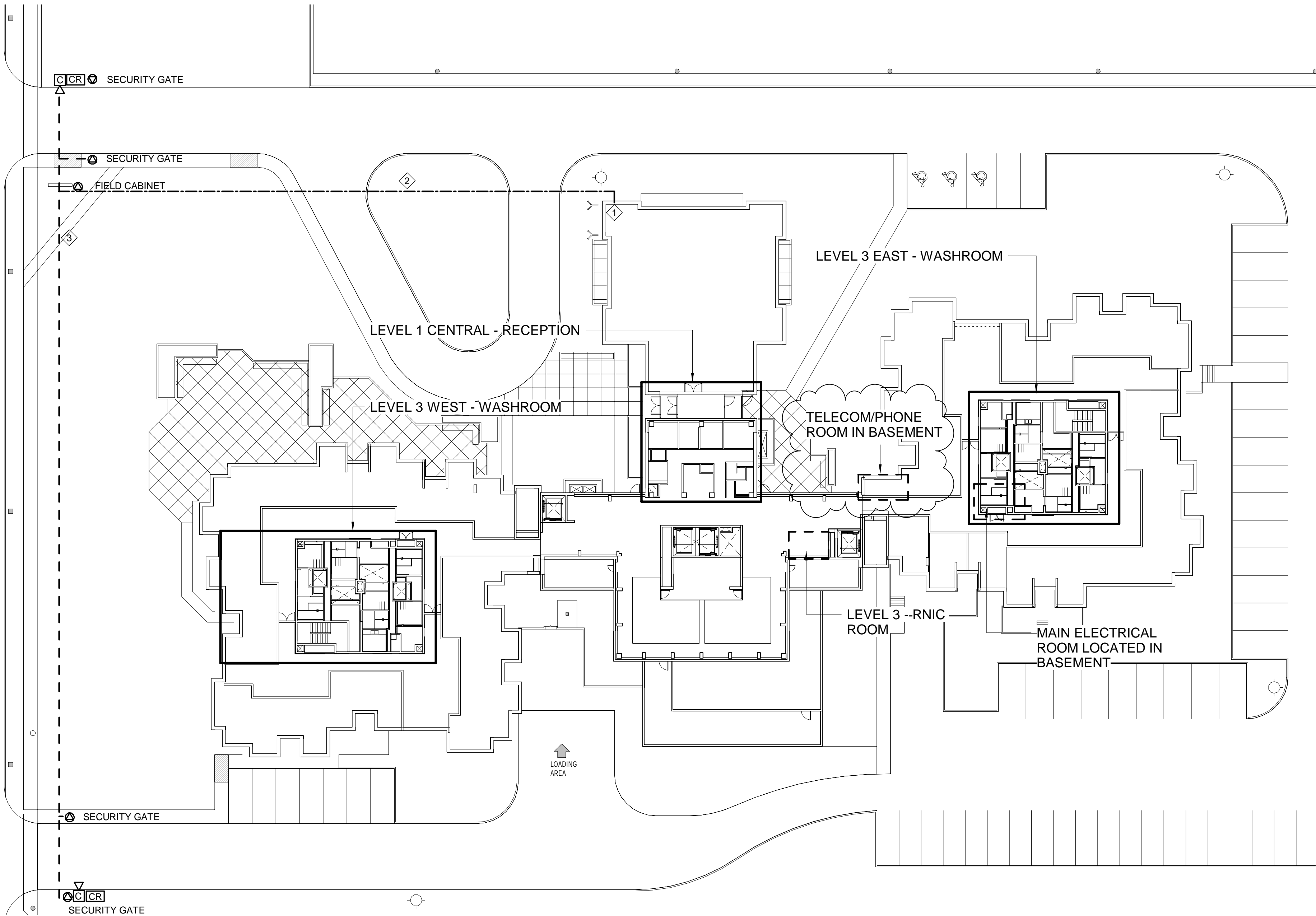
2.0 Appendices

- 2.1 Appendix A
 - 2.1.1 Reference cutsheets for intercom devices required.

TOTAL NUMBER OF PAGES
END OF **ELECTRICAL** ADDENDUM NO. E -03

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KEYNOTES (SHOWN AS ◇) E100

No.	Description
1	EXTEND CONDUITS IN BASEMENT. RUN POWER CONDUIT TO MAIN ELECTRICAL ROOM, AND DATA CONDUIT TO CLOSEST TELECOM CLOSET.
2	PROVIDE 2X CONDUITS BETWEEN BUILDING AND FIELD CABINET. ONE (1) 2.5" CONDUIT FOR POWER, ONE (1) 2" CONDUIT FOR DATA
3	PROVIDE 2X CONDUITS BETWEEN EACH SECURITY GATE AND THE FIELD CABINET. ONE (1) 2.5" CONDUIT FOR POWER, ONE (1) 2" CONDUIT FOR DATA

GENERAL NOTES

1. PROVIDE DEDICATED 15A, 120V CIRCUIT TO EACH SECURITY GATE AND FIELD CABINET. CONNECT TO EXISTING POWER PANEL IN MAIN ELECTRICAL ROOM.
2. REFER TO SECURITY GATE DETAILS ON SHEET E903 FOR MORE CONDUIT AND WIRING INFORMATION.
3. PROVIDE NEW MASTER VIDEO INTERCOM WITH DOOR RELEASE AT LEVEL 3 RNIC ROOM FOR AFTER HOURS OPERATION. CONNECT TO NEW INTERCOM SYSTEM.

1
E100

SITE PLAN - ELECTRICAL SCOPE OF WORK

1 : 300

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PROJECT

NORTH

10	2025-05-01	ISSUED FOR ADDENDUM E-003	MB
9	2025-04-29	ISSUED FOR ADDENDUM E-02	MB
7	2024-12-16	ISSUED FOR TENDER	MB
6	2024-11-08	ISSUED FOR PERMIT	MB
5	2024-10-10	ISSUED FOR CLIENT REVIEW	MB
4	2024-09-30	ISSUED FOR 100% CD	MB
3	2024-08-23	ISSUED FOR COORDINATION	MB
2	2024-08-08	ISSUED FOR COORDINATION	MB
1	2024-06-26	ISSUED FOR COORDINATION	MB
#	Date:	Revision:	By
revisions			

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WYCHWOOD TOWERS

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SITE PLAN - ELECTRICAL
SCOPE OF WORK

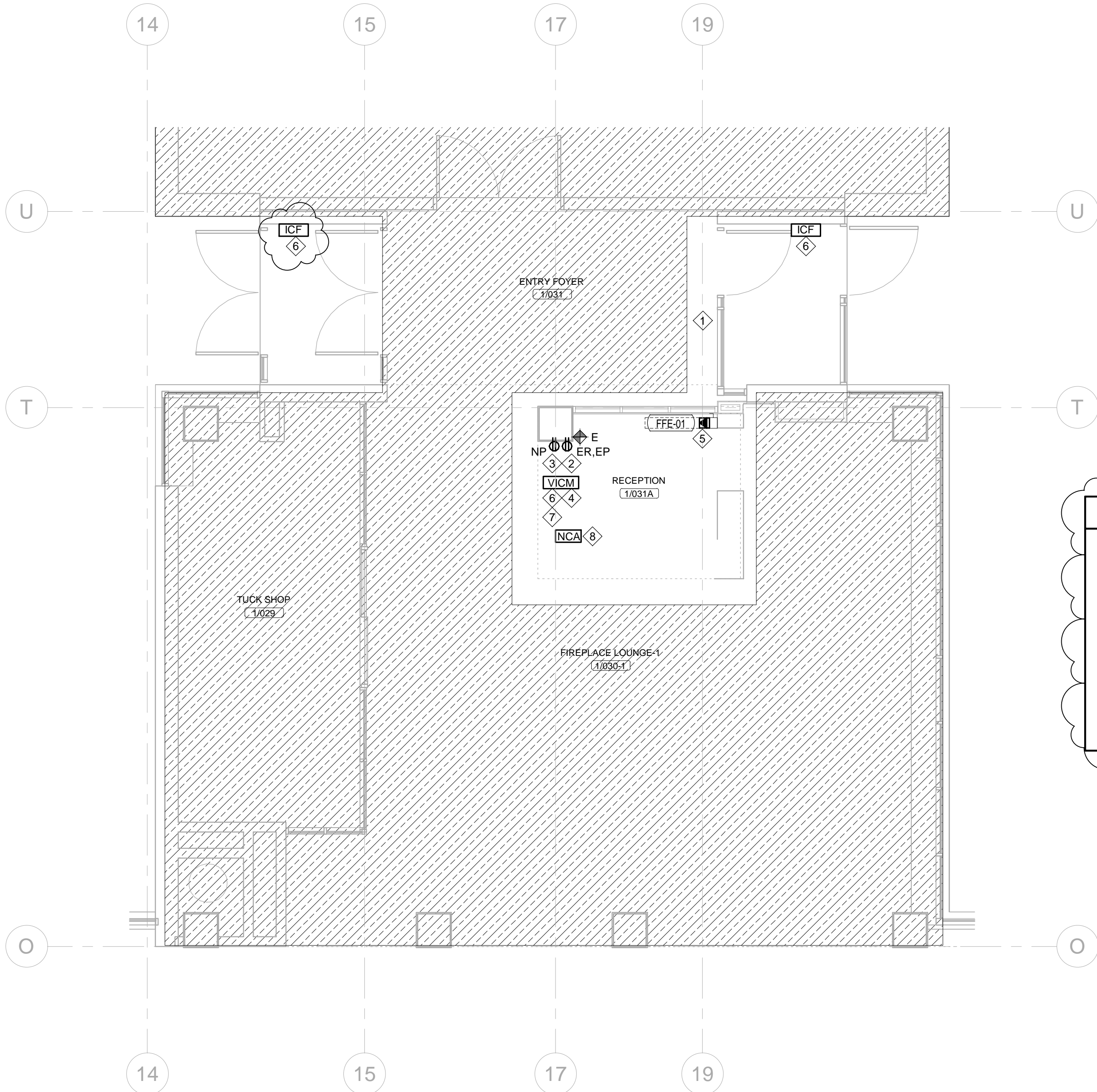
Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2025-05-01

Drawing Number:

E100

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KEYNOTES (SHOWN AS ◇) E300	
No.	Description
1	RELOCATE EXISTING PATIENT WANDERING SENSOR CONFLICTING WITH NEW GLASS WALL TO THIS LOCATON.
2	CONNECT EMERGENCY POWERED RECEPTACLE TO PANEL LP-E1 LOCATED IN THE MAIN ELECTRICAL ROOM IN THE BASEMENT
3	CONNECT RECEPTACLE TO EXISTING CIRCUIT IN RECEPTION.
4	ENSURE MASTER INTERCOM STATION INCLUDES TWO (2) NEW DOOR RELEASE BUTTONS THAT INTEGRATES WITH EXISTING SECURITY DEVICES. ONE TO RELEASE WEST ENTRANCE DOOR, ONE TO RELEASE THE EAST ENTRANCE DOOR. PROVIDE MATCHING STATION AT LEVEL 01 RNIC ROOM FOR AFTER HOURS USE.
5	PROVIDE NEW 208V, 20A-2P BREAKER AND CIRCUIT FOR MECHANICAL FORCE FLOW ELECTRIC HEATER. CONNECT TO EMERGENCY POWER PANEL LP-E1 IN MAIN ELECTRICAL ROOM IN BASEMENT.
6	CONNECT NEW INTERCOM DEVICES TO NEW INTERCOM SYSTEM.
7	ENSURE MASTER STATION CAN ACCESS EXISTING CCTV FEEDS, AND NEW CCTV FROM NEW SECURITY GATES.
8	PROVIDE NEW NURSE CALL STATION AND TIE INTO EXISTING SYSTEM. ENSURE NEW DEVICE IS COMPATIBLE WITH EXISTING SYSTEM.

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO REFER TO APPENDIX A ISSUED IN ADDENDUM E-003 FOR INTERCOM DEVICE MODEL NUMBERS. PROVIDE NEW INTERCOM SYSTEM TO CONNECT NEW DEVICES. LOCATE SYSTEM IN BASEMENT TELECOM/ PHONE ROOM. CONNECT TO EXISTING SECURITY SYSTEM AS REQUIRED.

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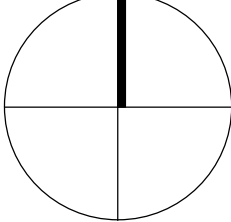
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PROJECT

NORTH



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WYCHWOOD TOWERS

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LEVEL 1 CENTRAL -
POWER AND SYSTEMS
LAYOUT

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2025-05-01

Drawing Number:

E300

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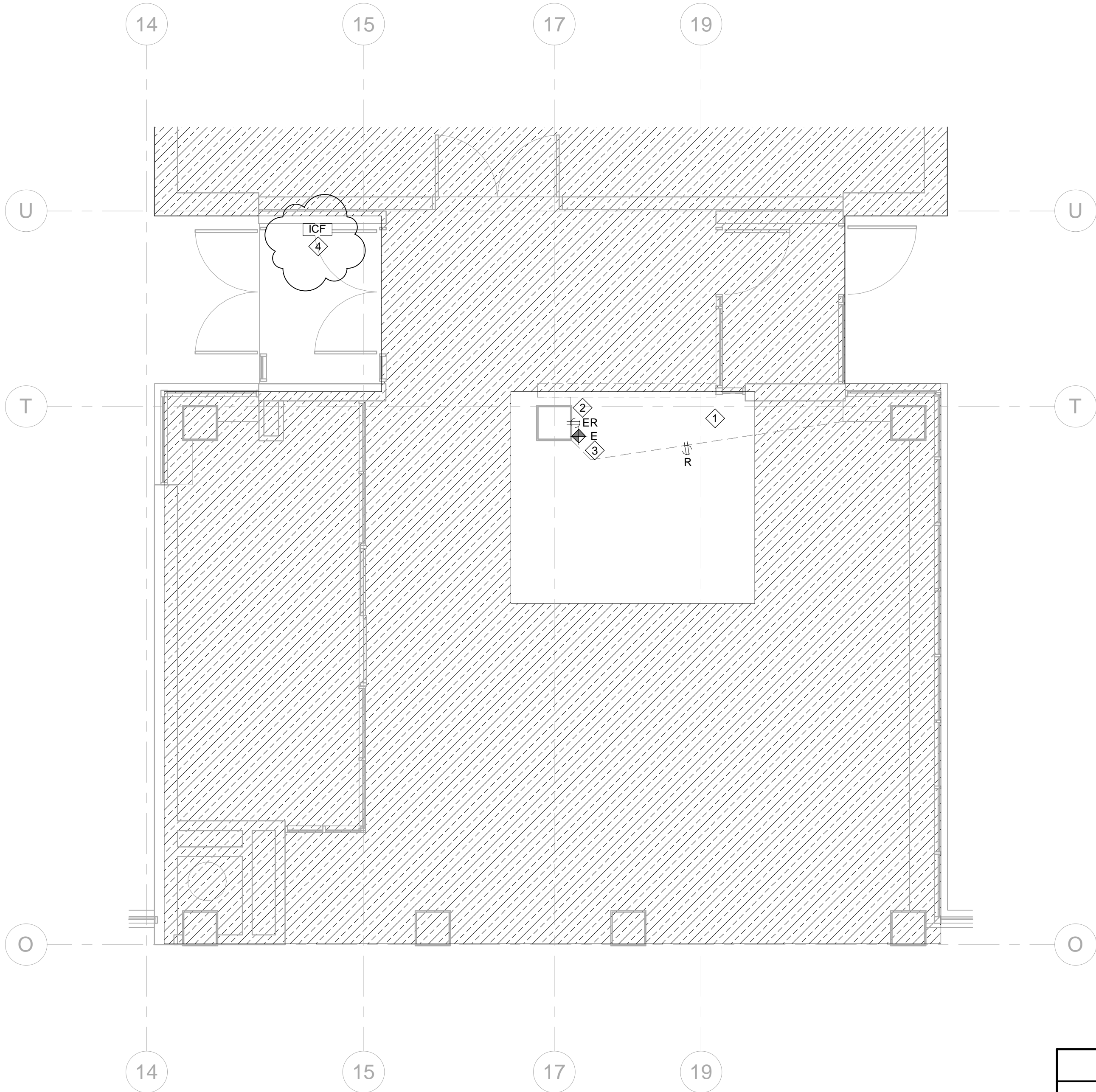
E300

LEVEL 1 CENTRAL - RECEPTION POWER LAYOUT

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KEYNOTES (SHOWN AS ◇) ED30	
No.	Description
1	EXISTING PATIENT WANDERING SENSOR LOCATED HERE. DEVICE TO BE RELOCATED TO AVOID CONFLICT WITH NEW WALL.
2	EXISTING RED BUTTON IS LOCATED ON WALL. TRACE WIRING TO DETERMINE WHAT SYSTEM IT IS CONNECTED TO.
3	EXISTING DATA RECEPTACLE TO REMAIN
4	REMOVE EXISTING INTERCOM DEVICE, TO BE REPLACE WITH NEW INTERCOM DEVICE CONNECTED TO NEW SYSTEM.

GENERAL NOTES	
1.	HATCHED AREAS ARE OUTSIDE OF SCOPE.
2.	REMOVE AND MAKE SAFE ALL RECEPTACLES. TRACE CIRCUITS BACK TO PANEL, REMOVE WIRING, AND CLEARLY IDENTIFY BREAKERS THAT ARE NOW SPARE.
3.	DISCONNECT AND STORE ALL EXISTING NURSE CALL DEVICES. NURSE CALL DEVICES TO BE REUSED IN CONSTRUCTION.
4.	DISCONNECT AND REINSTALL ALL FIRE ALARM SPEAKERS AS REQUIRED TO COMPLETE DEMOLITION IN AREA.
5.	REMOVE AND MAKE SAFE ALL LIGHT FIXTURES. EXISTING LIGHTING CIRCUITS WILL BE REUSED FOR NEW LIGHT FIXTURES.
6.	REMOVE AND MAKE SAFE ALL LIGHTING CONTROL DEVICES (SWITCHES, DIMMERS, OCCUPANCY SENSORS, ETC.)
7.	REMOVE AND REINSTALL ANY PA SPEAKERS WITHIN SCOPE AREA
8.	DO NOT DEMOLISH ANYTHING IN ELECTRICAL CLOSET. CLOSET IS SHOWN ONLY FOR REFERENCE. MAKE SAFE ANY CIRCUITS THAT ARE NO LONGER IN USE.

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LEVEL 1 - RECEPTION
DEMO LAYOUT

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2025-05-01

Drawing Number:

ED0

1

ED0

LEVEL 1 CENTRAL - DEMOLITION POWER LAYOUT

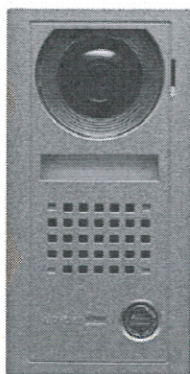
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AX-DV, AX-DVF

Video Door Stations for AX Series

AX-DV



AX-DVF



DESCRIPTION:

The AX-DV is a surface mount color video door station for the AX Series. The AX-DVF is a flush mount color video door station. Both units wire directly to the AX Central Exchange Unit using CAT-5e wire with an RJ45 jack for connection.

The AX-DV has an aluminum die cast cover. The AX-DVF has a stainless steel faceplate. Both units include a camera, microphone, speaker, and call button. Tamper resistant screws are provided for mounting.

When the call button on the door station is pushed, the master station(s) ring and the video monitor comes on with the image from the door station's camera. The master station user then pushes the "TALK" button to initiate communication. The person at the door station speaks hands-free.

The AX door stations can be located up to 980' from the AX CEU and wired with CAT-5e cable. Additional equipment is available to interface with third party hardware for transmission over fiber optic cable or an IP network.

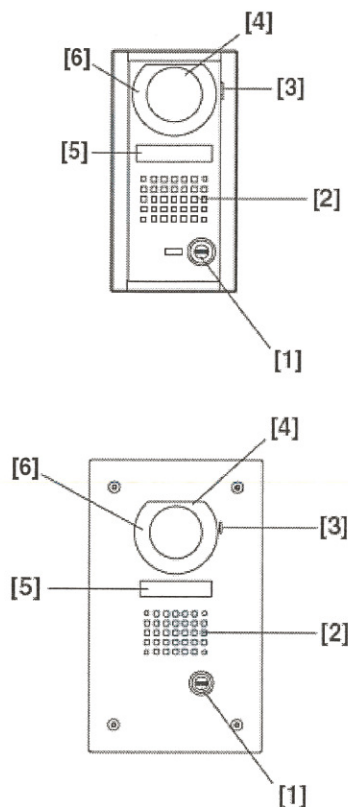
FEATURES:

- Color video camera with audio intercom
- 2-way hands-free voice communication with AX master station
- Call button to initiate call to master(s)
- White LED illuminator for low light conditions
- RJ45 jack for easy CAT-5e connection
- Surface (AX-DV) or flush mount (AX-DVF) styles available
- 980' wiring distance from CEU on CAT-5e cable

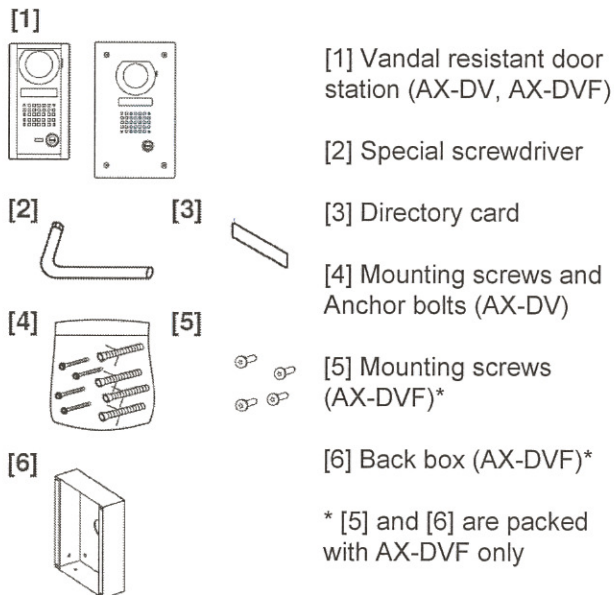
AX-DV, AX-DVF

Video Door Stations for AX Series

FEATURE CALL-OUTS:



PACKAGE CONTENTS:



FEATURE CALL-OUT DEFINITIONS:

- [1] Call Button
- [2] Speaker
- [3] Microphone
- [4] Camera
- [5] Directory Card
- [6] White LED illuminators

SPECIFICATIONS:

Power Source: 24V DC Supplied from CEU

Wiring connection: RJ45 jack (CAT-5e)

Communication: Hands-free communication (auto-voice actuated or PTT) controlled by master station

Camera: 1/4" color CCD camera

Pixels: 250,000 Pixels

Minimum illumination: 5 Lux

Operating temp: 14 – 140° F (-10 ~ 60° C)

Mounting:
AX-DV Surface wall mount
AX-DVF Flush mount (with provided box)

Housing:
AX-DV Front Panel: Aluminum die cast
Main Unit: Resins
AX-DVF Front Panel: Stainless steel
Main Unit: Resins
Back box: Steel plate

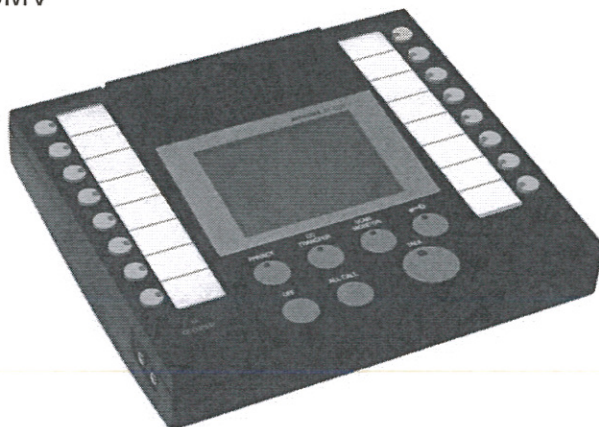
Color:
AX-DV Solid silver (metallic gray)
AX-DVF Stainless steel, brush-finished

Dimensions:
(HxWxD)
AX-DV: 7-11/16" x 3-15/16" x 1"
(195x100x25 mm)
AX-DVF: 9-11/16" x 5-3/4" x 1-7/8"
(246x146x45 mm)

Weight:
(approx.)
AX-DV: 0.88 lbs (400g)
AX-DVF: 1.45lbs (660g)

AX-8MV**Audio Video Master Station for AX Series**

AX-8MV

**DESCRIPTION:**

The AX-8MV Master Station is the centerpiece of the AX Integrated Audio & Video Security system.

Each AX-8MV master station can initiate and answer calls from up to 7 additional master stations and up to 8 door or sub stations. The master can be expanded with AX-16SW add-on selectors for a maximum capacity of 120 door / sub stations. Its streamline design is mountable on a wall or desk.

When a video door station calls, a tremolo tone rings and the 3.5" color monitor comes on, displaying the image from the door station location. To answer the call, simply press the TALK button once and speak hands-free, or Press and Hold the TALK button to use as push-to-talk, release-to-listen. If access control is included, simply press the "key" button and the associated electric strike or magnetic lock will be activated.

Each master station connects via CAT-5e cable homerun to the AX Central Exchange Unit. Feature and operation variables are set with the system set-up software and uploaded to the CEU.

White version is available, model AX-8MV-W.

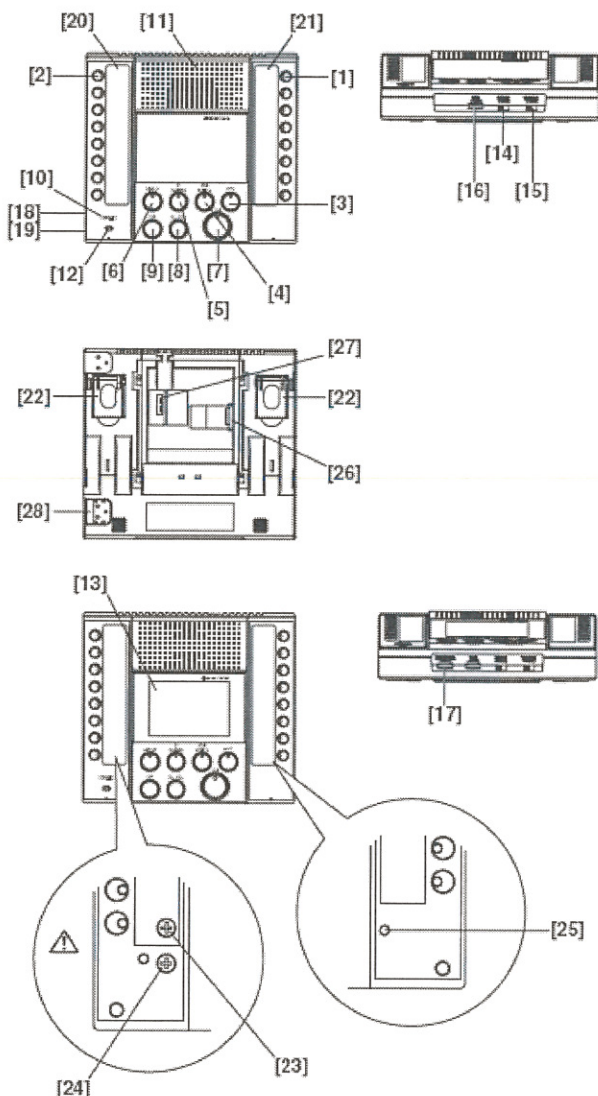
FEATURES:

- 3.5" TFT color video monitor
- 8 master station channels
- 8 door / sub station channels
- LED and call tone annunciation for programmable length or infinite call-in
- Hands-free VOX communication or Push-to-Talk
- All Call to other master stations
- Selective calling to any station in the system
- Add-on selectors in increments of 16 channels for max. capacity of 120 door / sub stations (CEU capacity also req'd)
- Privacy prevents other masters from listening in
- CO Transfer allows calls to transfer to a telephone number (Viking K-1900-5 required)
- Scan Monitor allows listening to door / sub stations in programmed time increments
- Door release button activates door strike or magnetic lock (selectable N/O or N/C contacts from CEU)
- 3.5mm speaker & mic jacks for computer-style headset or handset connection
- Tone and volume adjustments for open voice and headset communication
- Brightness and contrast adjustments for video
- Option connector for video output, call extension, or footswitch operation of TALK function

AX-8MV

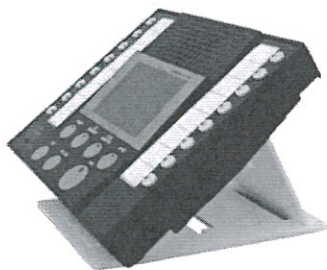
Audio Video Master Station for AX Series

FEATURE CALL-OUTS:



AX-8MV with optional desk stand:

Model MCW-S/A (adjustable to 45° or 60° angle)



FEATURE CALL-OUT DEFINITIONS:

- [1] Door station selector button w/LED
- [2] Master station selector button w/LED
- [3] Door release button
- [4] Scan monitor button w/LED
- [5] CO transfer button w/LED
- [6] Privacy button w/LED
- [7] TALK button w/LED
- [8] ALL CALL button
- [9] OFF button (standby)
- [10] Occupied LED
- [11] Speaker
- [12] Microphone
- [13] 3.5 inch color LCD monitor
- [14] Receive volume control switch (low, med, high)
- [15] Transmit volume control switch (low, med, high)
- [16] Tone volume control
- [17] LCD brightness control
- [18] Headset receiver jack
- [19] Headset microphone jack
- [20] Master station directory card / card cover
- [21] Door station directory card / card cover
- [22] Desktop stand
- [23] Headset receiver volume control
- [24] Headset microphone volume control
- [25] Reset switch
- [26] RJ45 jack for wiring to CEU
- [27] Optional connector input
- [28] Connector for AX-16SW add-on selector

SPECIFICATIONS:

- Power Source: 24V DC Supplied from CEU
- Call Tone: Tremolo ring tone & blinking LED
- Communication: Open voice hands-free (VOX or Push-to-Talk)
- Video Monitor: 3-1/2" direct view TFT color LCD
- Scanning Lines: 525 lines
- Video Output: NTSC Standard 1Vpp (0.7-1.4Vpp)
- Headset Jack: 3.5mm mic and speaker jacks
- Calling Capacity: Up to 7 additional master stations
Up to 120 door / sub stations
- Mounting: Desk with flip-up stands, or wall mount with provided metal bracket
- Wall mount box: 2-gang electrical box or ring
- Wiring: CAT-5e homerun to CEU
- Wiring Connection: RJ45 jack
- Housing: ABS Resin
- Color: Black
- Operating Temp: 32 – 104° F (0 ~ 40° C)
- Dimensions (HxWxD): 6-7/8" x 7-5/8" x 1-7/8"
(175 x 194 x 48 mm)
- Weight: 1.21 lbs (550g)

DC POWER SUPPLY FOR INTERCOM

Models; **PS-2420**, without AC plug **PS-2420UL**, UL/CSA Listed **PS-2420S**, CE Listed
This product is designed exclusively for use with Aiphone Intercom Systems.

PRECAUTIONS

INSTALLATION MANUAL

⊘ General prohibitions ⊘ Prohibitions to dismantle the unit ⚠ General precautions

⚠ WARNING (Negligence could result in death or serious injury.)

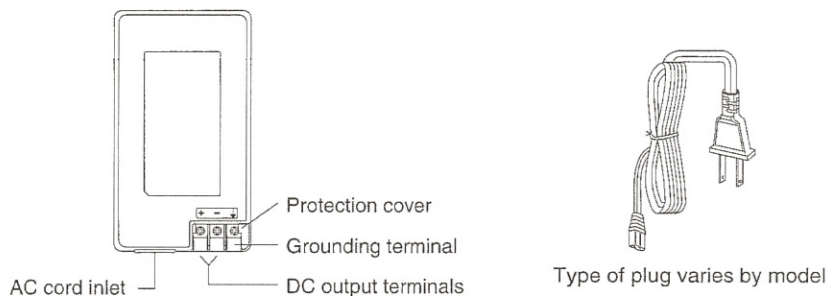
- Do not connect the unit with any non-specified power source. Fire or electric shock could result. ⊘
- Do not connect any terminal on the unit to AC power lines. ⊘
- Keep AC cord away from being marred or crushed. Fire or electric shock could result. ⊘
- Do not plug or unplug with wet hands. Electric shock could result. ⊘
- Do not make the wires or DC output terminals shorted. Fire or unit trouble could result. ⊘
- Do not dismantle or alter the unit. Fire or electric shock could result. ⊘
- Keep AC plug away from moisture or dust. Fire could result. ⚠

⚠ CAUTION (Negligence could result in injury or damage to property.)

- Do not install or make any wire terminations while power supply is plugged in. It can cause electrical shock or damage to the unit. ⊘
- Before plugging in the unit, make sure the wires are not crossed or shorted. It can cause fire or electric shock. ⚠
- Do not install the unit in any of the following locations, as it may cause the system to malfunction; ⊘
 - High or extreme cold temperature areas: under direct sunlight, near equipment that varies in temperature, in front of air-conditioner, inside a refrigerated area, etc.
 - Places subject to moisture or humidity extremes, such as bathroom, cellar, greenhouse, etc.
 - Places subject to environmental conditions, such as dust, oil, chemicals, salt, etc.
 - Places subject to constant vibration or impact.
 - Places subject to steam or smoke. (near heating equipment or cooking surfaces)
 - Places subject to direct rain or outdoors.

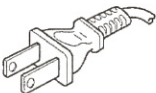

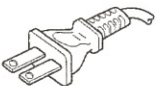
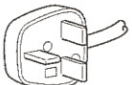

■ Package contents

- Power supply (PS-2420, PS-2420UL or PS-2420S)
- AC cord & plug (except PS-2420)
- Mounting bracket
- Packet of screws
- INSTALLATION MANUAL



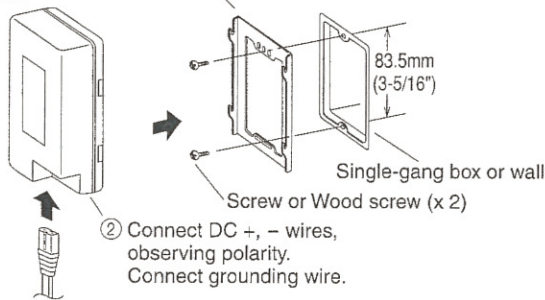
■ AC cord requirements (for PS-2420)

- Rating: 125V, 2A (for use with 100-125V AC)
250V, 2A (for use with 200-240V AC)
- Cord length: min. 1.8m (6'), max. 2m (6'7").
- Type: Must comply with requirements set out by the Safety Approval/Certification Organization in each country of use.
- AC cord inlet: Specified EN60320 or equivalent.
- Employ a plug in shape and ratings matched with AC outlet to be used.

Plug configuration	Usage	AC cord Nominal voltage & current rating	Plug configuration	Usage	AC cord Nominal voltage & current rating
 UL LISTED	North American	120V, 60Hz, 2A min.		Universal European	230V, 50Hz, 2A min.
 UL LISTED	North American	240V, 60Hz, 2A min.		United Kingdom	230V, 50Hz, 2A min.
				Australian	240V, 50Hz, 2A min.

1 MOUNTING

- ③ Mount the power supply on mounting bracket.
- ① Attach mounting bracket to box or wall.



- ④ Plug AC cord into socket securely.

- ② Connect DC +, - wires, observing polarity. Connect grounding wire.

2 BEFORE ASKING FOR REPAIRS

If your intercom system does not work properly or malfunctions, do not attempt to change or rectify wiring. Ask qualified personnel. If the system is not being used, PS-2420 can be unplugged.

3 SPECIFICATIONS

- Power source: AC 100V - 240V, 50/60Hz.
- Power consumption: 60W/100-125VA
- Secondary output voltage: DC 24V
- Secondary output current: 2A
- Dimensions & weight: 167H x 90W x 52D (mm).
6-9/16"H x 3-9/16"W x 2"D.
Approx. 430g (0.95 lbs.) (except AC cord)
- Ambient temperature: 0°C~+40°C(32°F~104°F)

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.

This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the product.

This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone.

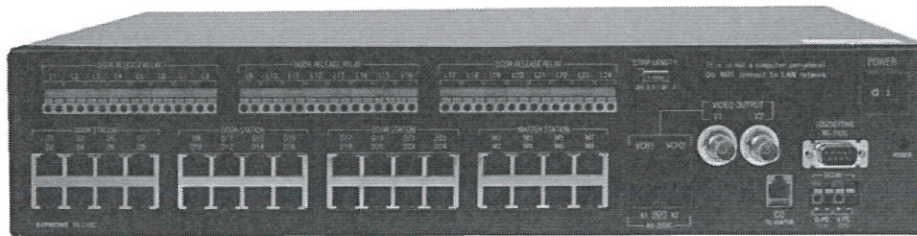
Aiphone will not be responsible for any costs incurred involving on site service calls.

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**DESCRIPTION:**

The AX-248C is a Central Exchange Unit for the AX Integrated Audio & Video Security system. Audio/Video and/or Audio-only Master or Door Stations connect directly to this unit via homerun CAT-5e wiring and RJ45 jacks.

The AX-248C supports up to 8 Master Stations and up to 24 Door/Sub stations. The AX series can be expanded in increments of 32 for up to 120 Door/Sub stations with the use of AX-320C add-on CEU's.

The CEU handles the calling and communication signals for the system, as well as providing selective door release outputs, video outputs, DVR trigger outputs, and CO line transfer output. System set-up and a variety of functions are programmed in the CEU with the use of the supplied software. Power is applied directly to the CEU via two PS-2420UL power supplies. The serial connection is for uploading the system programming, for raw RS232 data output, or for system monitoring via supplied program.

The unit can be surface mounted to a wall, desk mounted, or mounted in a standard 19" EIA rack using the supplied mounting brackets.

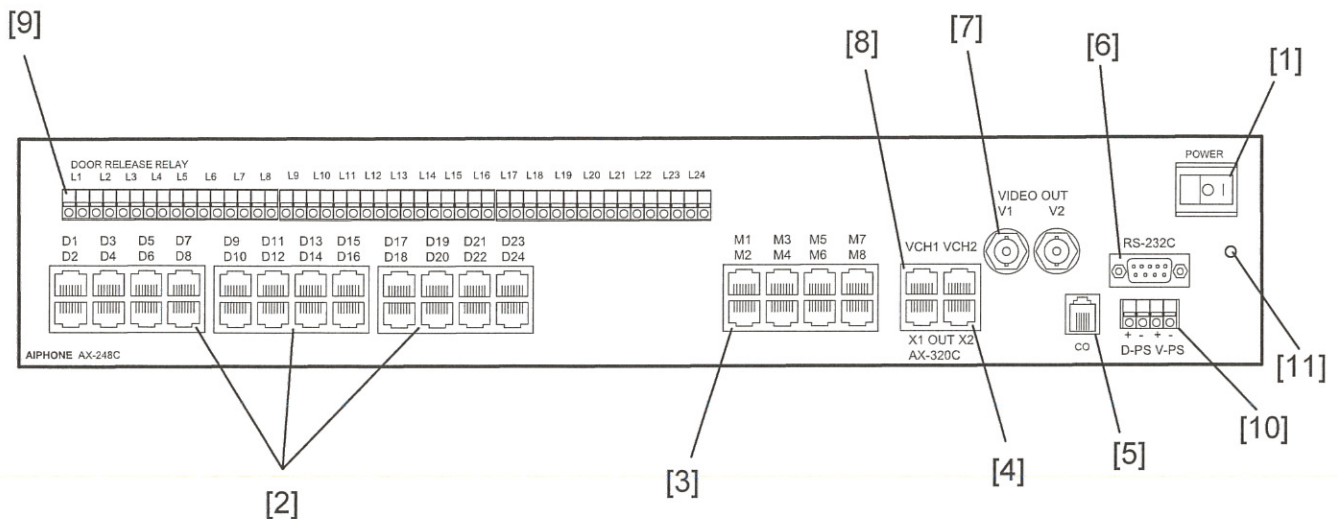
FEATURES:

- Wiring hub for AX system using CAT-5e cable
- Controls all functionality of AX system
- 8 Master station ports (RJ45)
- 24 Door / sub station ports (RJ45)
- 2 24V DC power supply input terminals
- 24 Door release dry contacts (24V AC/DC 500mA)
- 2 BNC composite video outputs and video switching triggers
- Outputs for AX-320C add-on exchanges to support the maximum capacity of 120 doors (3 AX-320C's max.)
- CO Line transfer output to Viking K-1900-5 programmable auto-dialer
- Rack mountable
- Programmable functionality via supplied software
- Includes USB to serial adaptor and gender changer, software program and Installation & Operation Manual on CD, and QuikStart Guide

AX-248C

Central Exchange Unit for AX Series

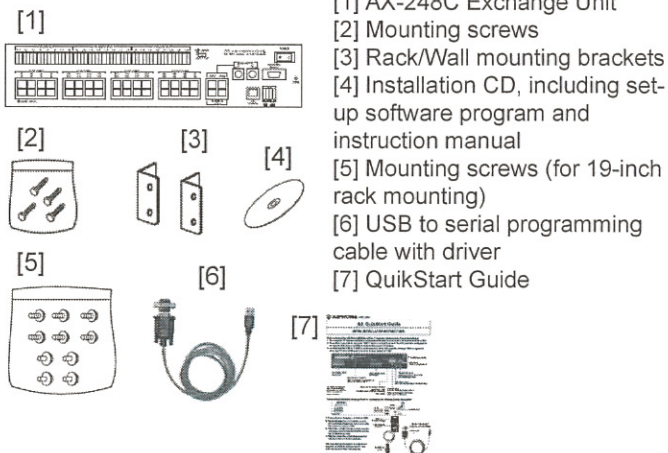
FEATURE CALL-OUTS:



FEATURE CALL-OUT DEFINITIONS:

- [1] Power switch
- [2] Door station ports
- [3] Master station ports
- [4] Add-on exchange unit port
- [5] CO line port (Viking K-1900-5 auto dialer required)
- [6] Program setting / log port
- [7] Video output ports
- [8] Video output trigger ports
- [9] Door release relay ports (L1 corresponds to door station D1, L2 to door station D2, etc.)
- [10] Power supply connection terminals
- [11] Power/Communications error display LED

PACKAGE CONTENTS:



SPECIFICATIONS:

- Power Source: 24V DC, 2A (x2)
PS-2420UL (1 for audio-only system,
2 for audio/video system)
- Current Consumption: Video (Max) 1.1A, Audio (Max) 1.25A
- Door Release Contact: 24V AC/DC, 500mA
- Mounting: Desk, wall, or 19: EIA rack with
supplied brackets
- Wiring: RJ45 plugs for CAT-5e homerun wire
runs from each master and door/sub
2 Conductor wire from PS-2420UL to
power input terminals
- CO Line Port: RJ11 for Viking K-1900-5
programmable auto-dialer
- Housing: Metal
- Color: Black
- Operating Temp: 32 – 104° F (0 ~ 40° C)
- Dimensions: 3-7/16" x 1' 6-7/8" x 1' 1-3/16"
(HxWxD) (88 x 480 x 335 mm)
- Weight: 10.35 lbs (4,700g)