



DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
 State Facilities Administration  
 Design and Construction Division

## CONSTRUCTION BID ADDENDUM NO. 1

This form identifies an Addendum to Bidding Documents, and incorporates interpretations or clarifications, modifications, acceptance of proposed "or equal" materials, and other information into the Bidding Documents. Addenda will be numbered by the Professional and distributed through [www.michigan.gov/SIGMAVSS](http://www.michigan.gov/SIGMAVSS) as an attachment.

TO: ALL BIDDERS		DATE ISSUED 8/6/2024
PROJECT NAME Replace Security System Programmable Logic Controllers - Center for Forensic Psychiatry		FILE NUMBER 491/23066.SDW
PROFESSIONAL Commtech Design, Inc.	PROJECT DIRECTOR Susan Wheaton	BID OPENING DATE: 8/21/2024

ADDENDUM ITEMS: (attach additional sheets and drawings if required)

**Attachments:**

1. Revised Bid drawings.

**Drawings reissued:**

1. Revise Bid Drawings to INCLUDE the following:

- |       |                                       |
|-------|---------------------------------------|
| TC101 | CABLING LEGENDS DETAILS AND SCHEDULES |
| TC102 | CABLING RACK LAYOUTS                  |
| TC103 | CABLING RACK LAYOUTS                  |
| TC104 | OVERALL NETWORK DIAGRAM               |
| TC105 | EXISTING & NEW PLC 1 WIRING DIAGRAM   |
| TC106 | EXISTING & NEW PLC 2 WIRING DIAGRAM   |
| TC107 | EXISTING & NEW PLC 3 WIRING DIAGRAM   |
| TC108 | INTERCOM AUDIO CONNECTIVITY DIAGRAM   |

ACKNOWLEDGEMENT: This Addendum must be acknowledged by the Bidder in the space provided in the Bid Summary and Bid Form. Failing to acknowledge Addenda may be cause for the Bid to be rejected. Addenda will become part of the Contract Documents.

PROFESSIONAL: Bret Emerson, Commtech Design	DATE: 8/6/2024
APPROVED BY:	
PROJECT DIRECTOR: Susan Wheaton, DTMB	DATE: 8/6/2024

# STATE OF MICHIGAN

## CENTER FOR FORENSIC PSYCHIATRY (CFP)

### REPLACE SECURITY SYSTEM PROGRAMMABLE LOGIC CONTROLLERS

issue date  
7/22/2024

sheet title

checked by

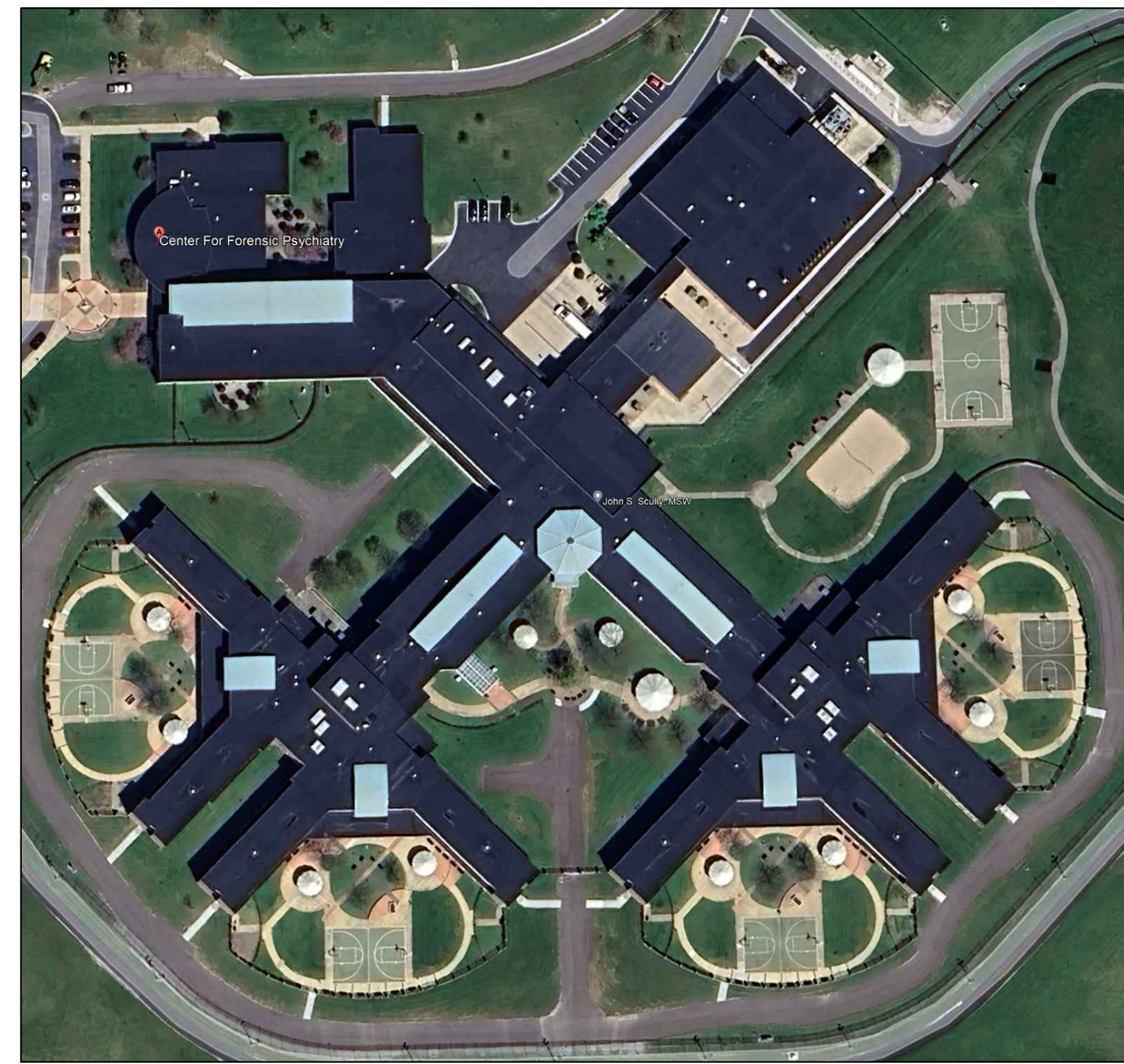
drawn by

consultant

**Commtech Design**  
6585 BELDING ROAD NE, SUITE B  
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#### SECURITY DESIGN

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ROCKFORD, MI 49341  
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**CENTER FOR FORENSIC PSYCHIATRY**  
8303 Platt Rd., Saline, MI 48176  
FILE NUMBER: 491/23066.SDW

#### SECURITY DRAWING INDEX

DRAWING LIST:

- TC101 CABLING LEGENDS DETAILS AND SCHEDULES
- TC102 CABLING RACK LAYOUTS
- TC103 CABLING RACK LAYOUTS
- TC104 OVERALL NETWORK DIAGRAM
- TC105 EXISTING & NEW PLC 1 WIRING DIAGRAM
- TC106 EXISTING & NEW PLC 2 WIRING DIAGRAM
- TC107 EXISTING & NEW PLC 3 WIRING DIAGRAM
- TC108 INTERCOM AUDIO CONNECTIVITY DIAGRAM
- TC.0A FORENSIC PSYCH PLC BASEMENT CABLING PLAN AREA A
- TC.0B FORENSIC PSYCH PLC BASEMENT CABLING PLAN AREA B
- TC.1A FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA A
- TC.1B FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA B
- TC.1C FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA C
- TC.1D FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA D
- TC.1E FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA E
- TC.1F FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA F
- TC.1G FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA G
- TC.1H FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA H
- TC.1J FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA J
- TC.1K FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA K
- TC.1L FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA L
- TC.2A FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA A
- TC.2B FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA B
- TC.2C FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA C
- TC.2D FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA D
- TC.2E FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA E
- TC.2F FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA F
- TC.2G FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA G
- TC.2H FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA H
- TC.2J FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA J
- TC.2K FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA K
- TC.2L FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA L

CENTER FOR FORENSIC PSYCHIATRY (CFP)  
REPLACE SECURITY SYSTEM  
PROGRAMMABLE LOGIC CONTROLLERS  
SALINE, MICHIGAN

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LATCH, RA, DIRECTOR



file no.  
491/23066.SDW

index no.  
00800

contract order no.

consultant job no.  
1065\_105

SHEET NUMBER  
**COVER**

### COMMUNICATION SYMBOL LEGEND

SYMBOL	DESCRIPTION
(1)	THIS SYMBOL WITH A NUMBER INSIDE REFERS TO KEYNOTES. REFER TO NOTES ON THE SHEET OR WITHIN THE DETAIL FOR ADDITIONAL INFORMATION
A	EQUIPMENT SCHEDULE. THIS SYMBOL WITH LETTERS INSIDE REFERS TO EQUIPMENT SCHEDULES. SEE DETAILS AND EQUIPMENT SCHEDULES ON TC101, TC301, TC501 AND TC701.
1	CABLE SCHEDULE. THIS SYMBOL WITH NUMBERS INSIDE REFERS TO EQUIPMENT SCHEDULES. SEE DETAILS AND EQUIPMENT SCHEDULES ON TC101, TC301, TC501 AND TC701.
(C)	EXISTING INTERCOM DEVICE AT A DOOR OR WALL. REPLACE THIS AS PART OF THE ALTERNATE #1

### ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ZG	TWO-GANG BOX - PROVIDED BY EC	NIC	NOT IN CONTRACT
AC	ABOVE COUNTER - INSTALL BACKBOX SAME HEIGHT AS OTHER ELECTRICAL OUTLETS ABOVE THE COUNTER.	PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR	PCO-1	PATCH CORD ORGANIZER - 1 UNIT HIGH
AFG	ABOVE FINISHED GROUND	PCO-2	PATCH CORD ORGANIZER - 2 UNITS HIGH
AWG	AMERICAN WIRE GAUGE	PET	PROTECTED ENTRANCE TERMINAL
EMT	EMT TYPE CONDUIT	QTY	QUANTITY
EC	ELECTRICAL CONTRACTOR		

### CABLE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	PART NO.
1	CAT-6 UTP CABLES. PINK IN COLOR. SEE CONNECTIVITY CODES	MOHAWK	M58282
2	12 STRAND SINGLEMODE FIBER CABLE, PLENUM RATED - ARMORED	OCC	DZ012TSLX9YP18

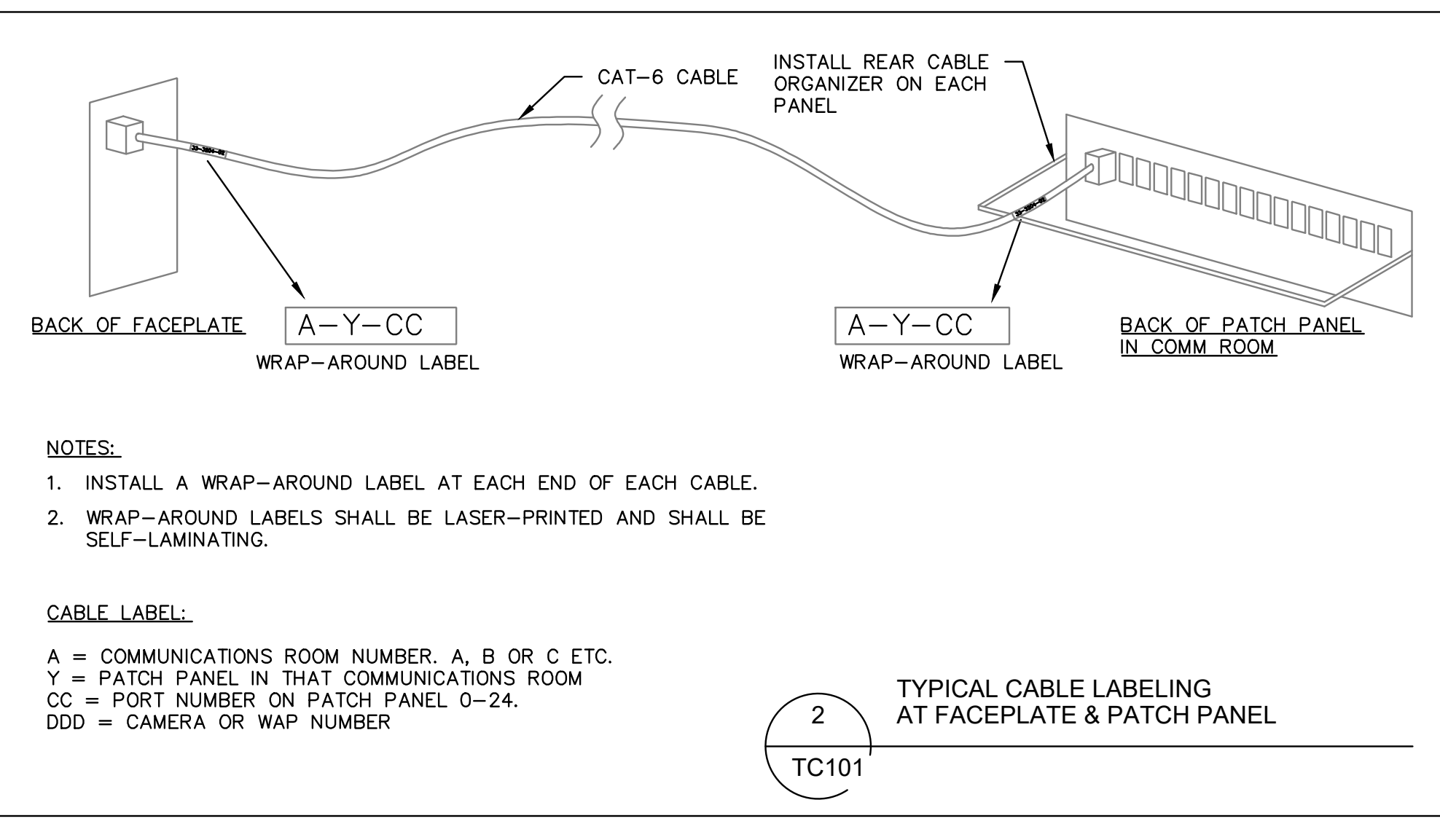
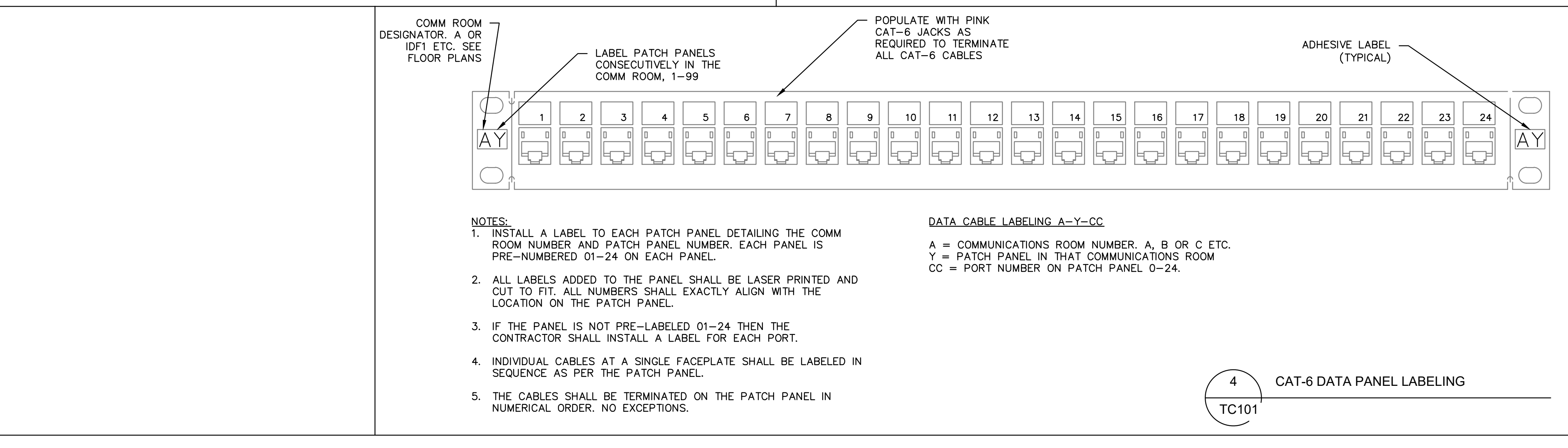
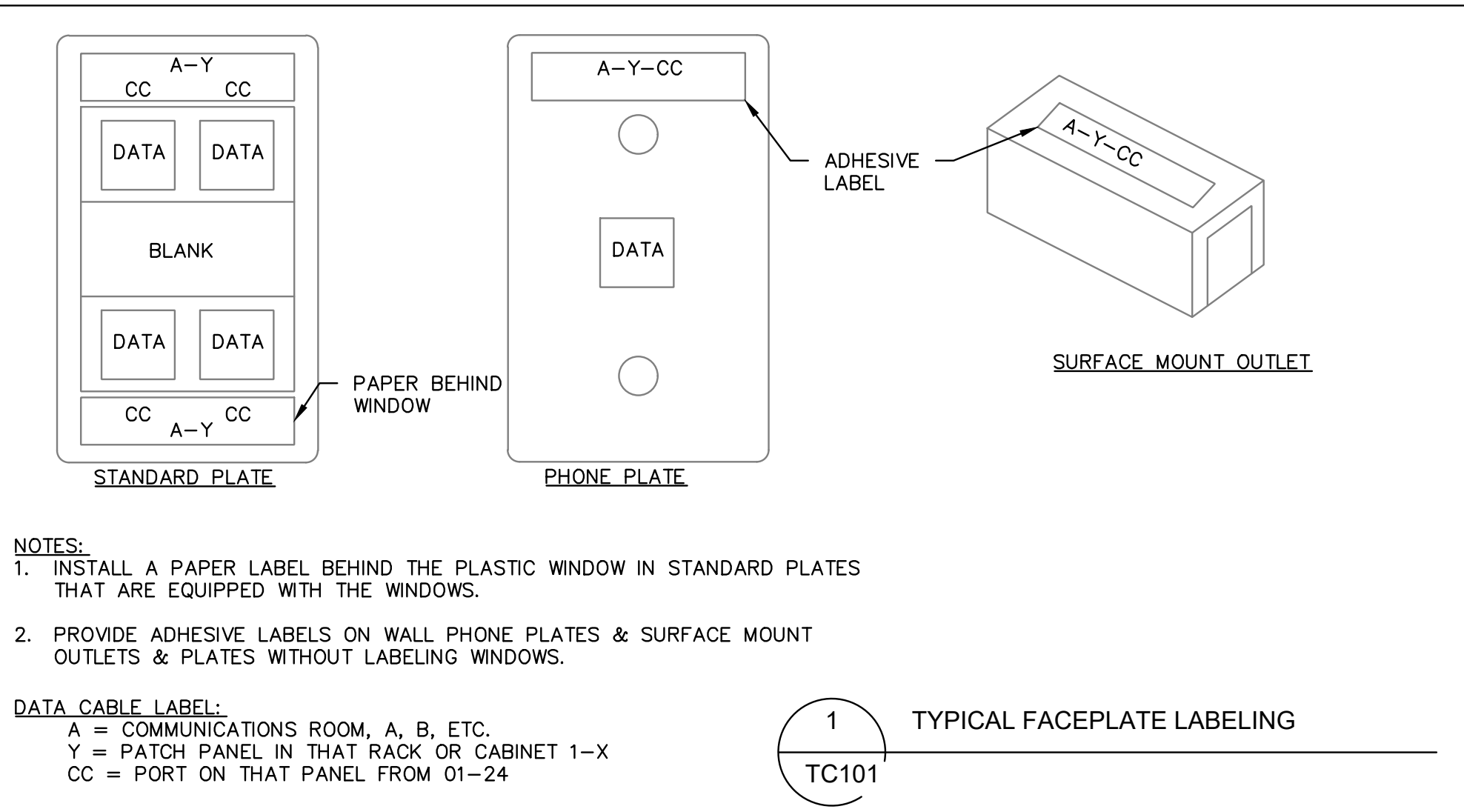
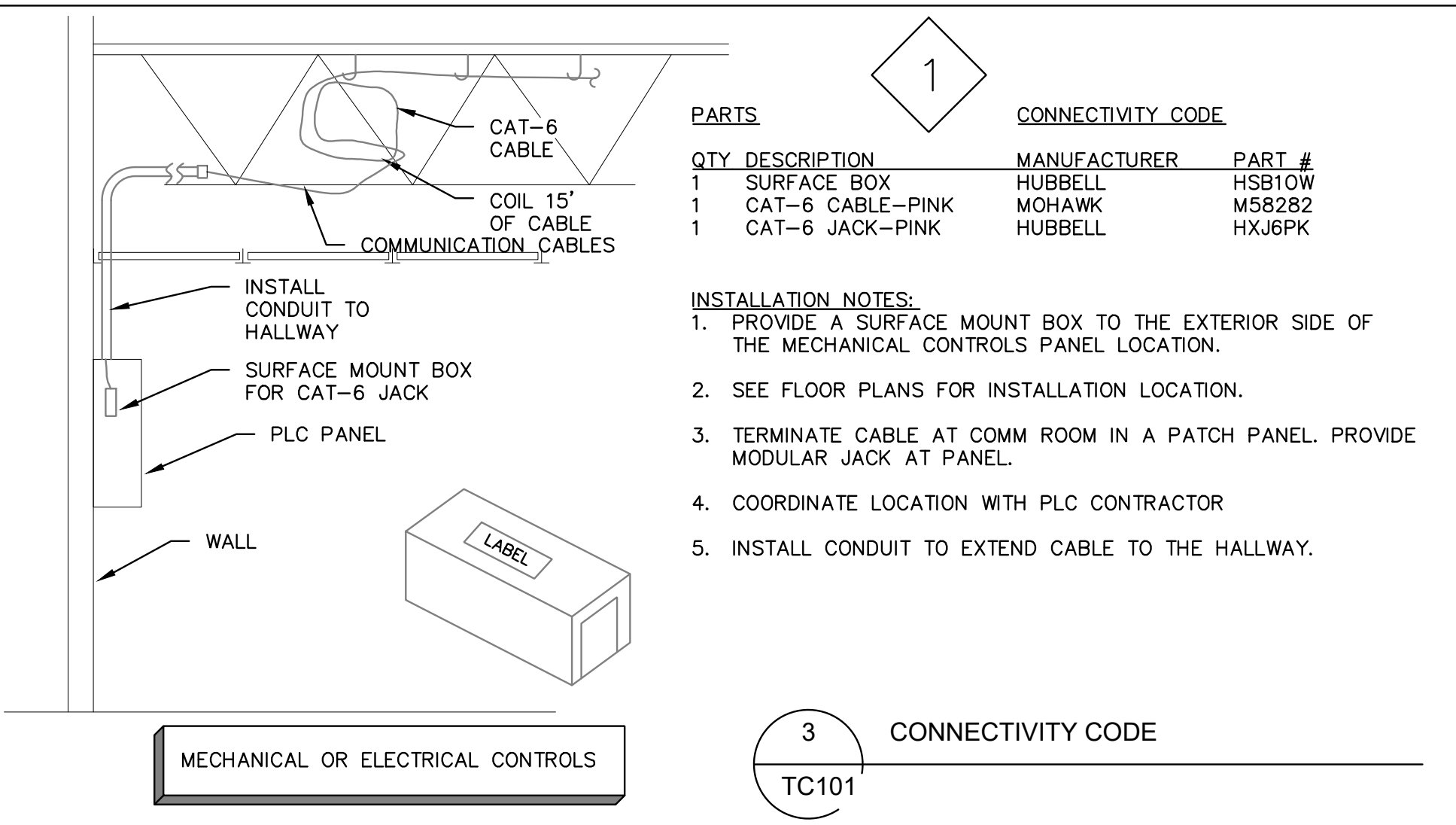
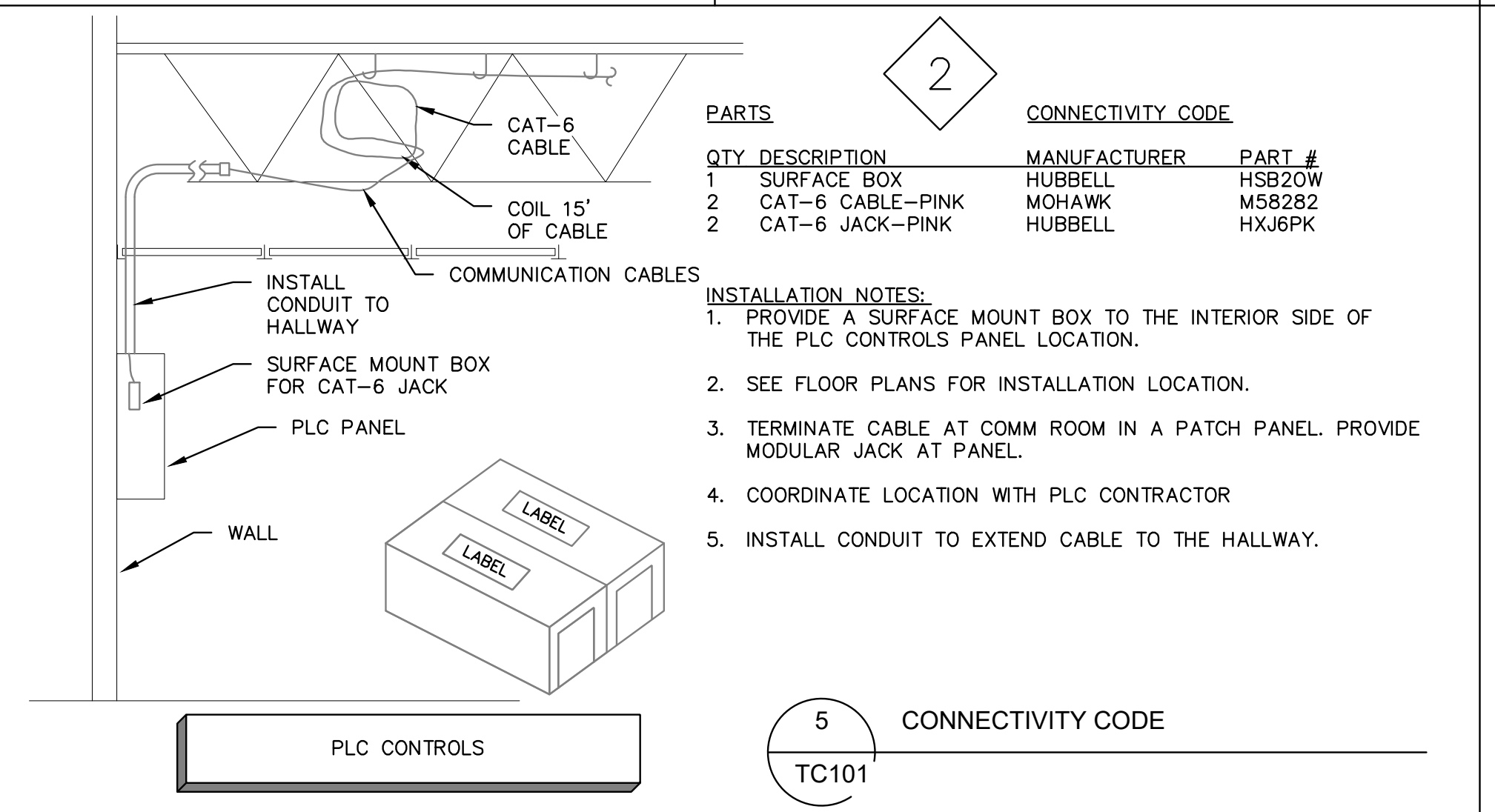
### RACK EQUIPMENT SCHEDULE

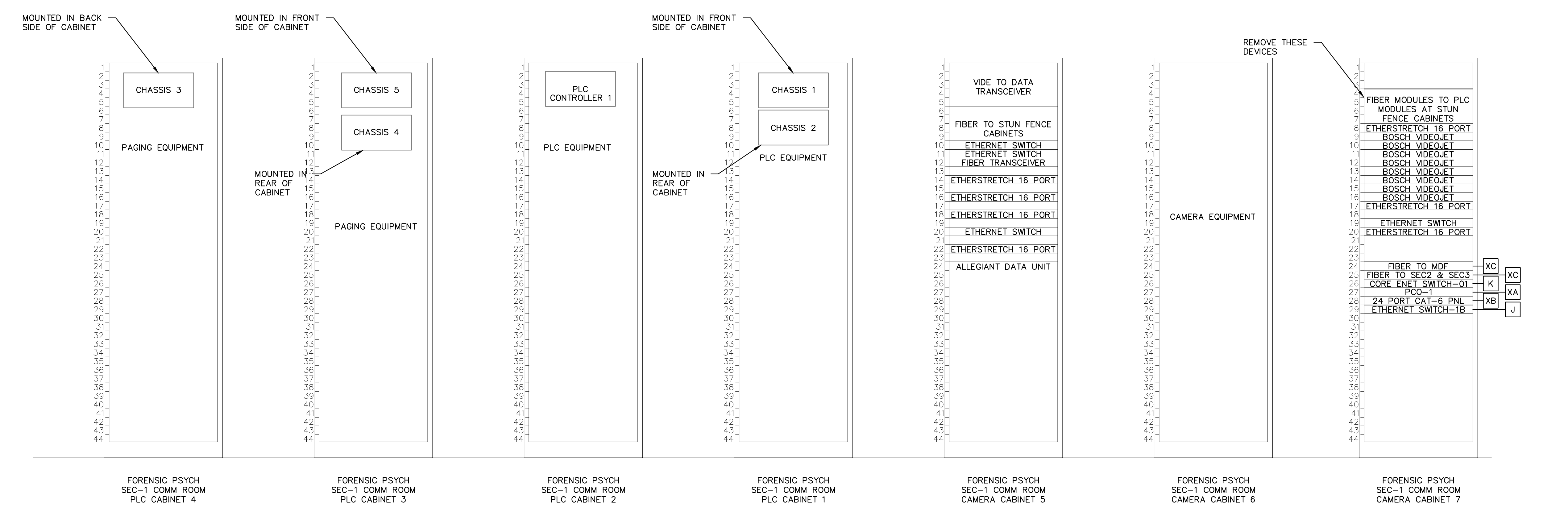
MARK	DESCRIPTION	MANUFACTURER	PART NO.
KA	SINGLE RACK UNIT PATCH CORD ORGANIZER (PCO-1) WITH HINGED COVER.	HUBBELL	HS13C
KB	PATCH PANEL-24 PORT. EQUIPPED WITH 8-PIN MODULAR JACKS TO MATCH THE CABLE COLOR AND CABLE TYPE BEING TERMINATED. PROVIDE ONE MODULAR JACK FOR EACH CABLE BEING TERMINATED. SEE SPEC AND DRAWINGS FOR COLORS. EQUIP WITH REAR CABLE ORGANIZER	HUBBELL	PANEL:HPJ24 ORGANIZER:ECMBR3
KC	RACK MOUNT FIBER PANEL. USE WHEN TERMINATING 24 OR LESS FIBER STRANDS. PROVIDE EACH FIBER PANEL WITH "SC" SIX OR 12 PACKS AS REQUIRED FOR TERMINATION OF ALL FIBERS. PROVIDE SPLICER TRAY AND SHELF FOR FUSION SPLICERS TO PIGTAILS.	HUBBELL	FPR3SP
KD	FIBER OPTIC CABLE STOWAGE RING. WALL MOUNTED. 12" OR 24". PROVIDE AND INSTALL TO SUPPORT BEND RADIUS REQUIREMENTS OF THE FIBER CABLE	LEVITON	12" #48900-IFR / 24" #48900-OFR

### COMMUNICATION EQUIPMENT SCHEDULE

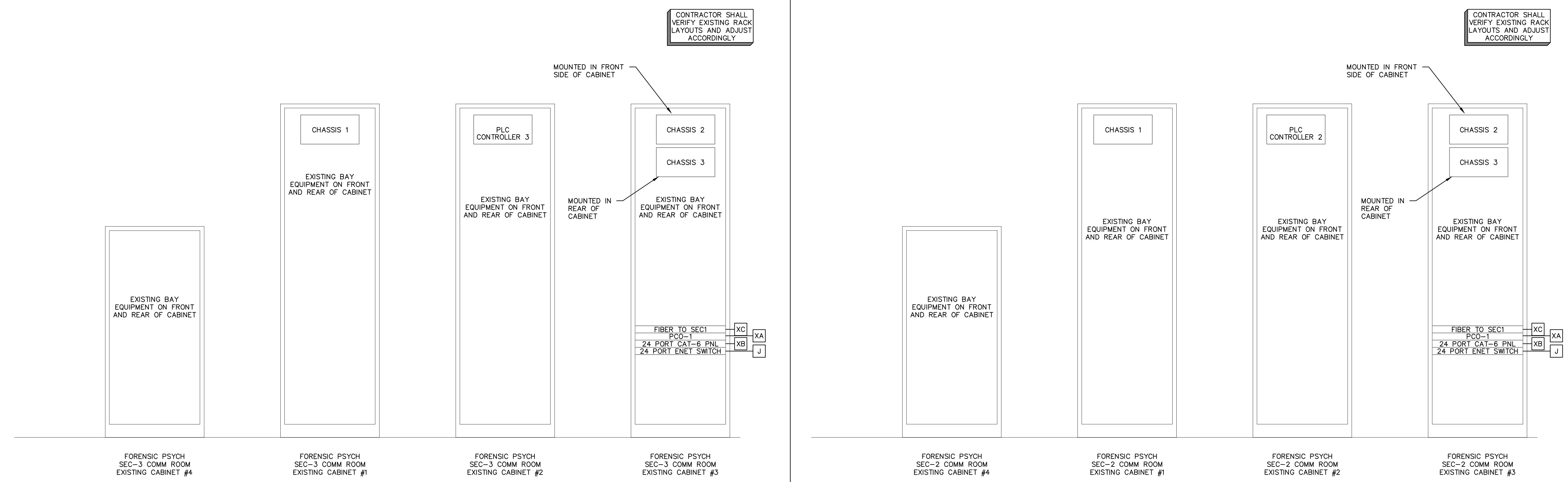
MARK	DESCRIPTION	MANUFACTURER	PART NO.
A	PROGRAMMABLE LOGIC CONTROLLERS w/POWER SUPPLY AND HI-SPEED ETHERNET INTERFACE. THIS SHALL BE DEPLOYED TO REPLACE THE EXISTING PLC CONTROLLERS AT SEC-1, SEC-2 AND SEC-3. CONNECT TO PLC NETWORK.	Allen Bradley	CONTRACTOR
B	COMPACTLOGIX PLC CONTROL EQUIPMENT. THIS SHALL BE A COMPLETE UNIT EQUIPPED WITH POWER SUPPLY, INPUT AND OUTPUT MODULES AND ETHERNET CONNECTIVITY. SUPPLY MODULES IN QUANTITY TO CONTROL EXISTING SYSTEMS. SEE "CHASSIS" IN DIAGRAMS AND PICTURES	Allen Bradley	CONTRACTOR
C	POINT I/O PLC CONTROL EQUIPMENT. THIS SHALL BE A COMPLETE UNIT EQUIPPED WITH POWER SUPPLY (RE-USE EXISTING WHERE APPLICABLE) INPUT AND OUTPUT MODULES AND ETHERNET CONNECTIVITY. SUPPLY MODULES IN QUANTITY TO CONTROL EXISTING SYSTEMS. SEE "LVPR" IN DIAGRAMS AND PICTURES.	Allen Bradley	CONTRACTOR
D	FIBER OPTIC TO CATEGORY CABLE TRANSCEIVERS. ALL TEMPERATURE RATED. PROVIDE FIBER OPTIC PATCH CABLES TO MATCH EXISTING FIBER PANELS AND TRANSCEIVERS PROVIDE SFP MODULE TO MATCH FIBER TYPE. 62.5 MM FIBER	COMNET	CNMC SERIES OR EQUAL
E	ETHERNET TO SERIAL COMMUNICATION MODULES (DURESS AND VIDEO SYSTEMS). INSTALL WHERE REQUIRED FOR SYSTEM CONFIGURATION AND USE.	CONTRACTOR	CONTRACTOR
F	CONTROL COMPUTER FOR PLC CONTROL SYSTEM. REPLACE EXISTING COMPUTERS WITH NEW DEVICES ATTACHED TO PLC CONTROL ETHERNET NETWORK. EQUIP EACH COMPUTER WITH 24" TOUCHSCREEN MONITOR, 1 EACH. EQUIP WITH NEW PLC CONTROL LICENSE AND WONDERWARE UPGRADE LICENSE. INSTALL NEW WIRED KEYBOARD AND MOUSE	CONTRACTOR	CONTRACTOR
G	DESKTOP MICROPHONE. ETHERNET CONNECTED. EQUIP ONE PER CONTROL COMPUTER. CONNECT TO MINI ETHERNET SWITCH AT BACK OF PC. EQUIP TO TALK TO INTERCOMS AND MAKE ANNOUNCEMENTS	HARDING	CONTRACTOR
H	MINI ETHERNET SWITCH TO BE INSTALLED AT EACH PC TO CONNECT PC AND MICROPHONE TO EXISTING DATA FACEPLATE. PATCH FACEPLATE AT COMM ROOM TO PLC CONTROL ETHERNET NETWORK.	NETGEAR	GS305PV3 OR EQUAL
J	ETHERNET SWITCH. 24 PORT DEVICE. INSTALL WITH SFP FIBER OPTIC MODULES TO CONNECT AS SHOWN ON THE DIAGRAMS. 24 10/100/1000 POE PORTS. DUAL 1 GIG SFP FIBER PORTS. INSTALL CABLING FROM ALL PLC DEVICES THAT REQUIRE ETHERNET CONNECTIVITY TO PANEL AND PATCH TO NEW ETHERNET SWITCH.	NETGEAR	GS724TFFP-V2 OR EQUAL
K	CHASSIS SWITCH. EQUIP WITH 8 PORTS OF POE AND 16 PORTS OF SFP MODULES. SHALL PROVIDE POE TYPE 2. PROVIDE SFP MODULES FOR 62.5MM AND SINGLEMODE FIBER AND FIBER OPTIC PATCH CABLES.	NETGEAR	M4300 SERIES XSM4396K0 1xAPF408P 2xAPF408F AND SFP MODULES
L	INTERCOM AUDIO RECORDING SERVER. PROVIDE AND INSTALL A NEW SERVER FOR RECORDING OF ALL INTERCOM CONVERSATIONS BETWEEN DOOR INTERCOMS AND CONTROL PCs. SIZE AUDIO RECORDING DEVICE TO SUPPORT 500 HOURS OF TALK-TIME RECORDING ON EACH INTERCOM.	HARDING	CONTRACTOR
M	INTERCOM CONTROLLER UNIT. PROVIDE AND INSTALL CONTROLLER UNITS AND EXPANSION MODULES TO SUPPORT ALL NEW INTERCOM DEVICES THROUGHOUT THE BUILDING. SEE DRAWINGS FOR QUANTITY AND LOCATION. CONNECT TO ETHERNET NETWORK AND WIRE EXISTING CABLING TO CONTROLLER AND EXPANSION UNITS.	HARDING	DCC SERIES DIGITAL COMMUNICATION CONTROLLER
N	INTERCOM CONTROLLER UNIT. PROVIDE AND INSTALL CONTROLLER UNITS AND EXPANSION MODULES TO SUPPORT ALL NEW INTERCOM DEVICES THROUGHOUT THE BUILDING. SEE DRAWINGS FOR QUANTITY AND LOCATION. CONNECT TO ETHERNET NETWORK AND WIRE EXISTING CABLING TO CONTROLLER AND EXPANSION UNITS.	HARDING	DCE SERIES DIGITAL COMMUNICATION EXPANDER
P	INTERCOM AUDIO CONTROL AND ADMINISTRATOR SOFTWARE	HARDING	
Q	DOOR INTERCOM. REPLACE EXISTING INTERCOM AT THE DOOR WITH THIS NEW DEVICE. WIRE TO THE EXISTING CABLING. CONNECT TO CONTROLLERS IN COMM ROOMS. SET. HARDING. INTERCOM STATION, w/CALL PB, 2-GANG, 4-WIRE	HARDING	ICE-322-227-000
R	REMOTE SERVICE ACCESS MODULE. EQUIP WITH DEVICE TO ALLOW REMOTE CONFIGURATION AND TROUBLESHOOTING OF THE PLC SYSTEM BY A THIRD PARTY VENDOR. CONNECT TO INTERNET FEED PROVIDED BY OWNER.	CONTRACTOR	CONTRACTOR
S	QUICK CONNECT BOARD FOR DOOR INTERCOMS. REPLACE EXISTING DUKANE WITH THIS. WIRE ALL EXISTING CABLES TO THIS DEVICE. PROVIDE QTY AS REQUIRED	HARDING	QCB SERIES
T	INDUSTRIAL ALL WEATHER ETHERNET SWITCH. EQUIP WITH SFP MODULES. 1 GIGABIT CONNECTIVITY THRU FIBER. FIBER SHALL BE 62.5 MICRON MM.	COMNET	CNCE2FE45MSPOE WITH SFP

INCLUDE PROVISION AND INSTALLATION OF THESE DEVICES AS PART OF DEDUCT ALTERNATE #1



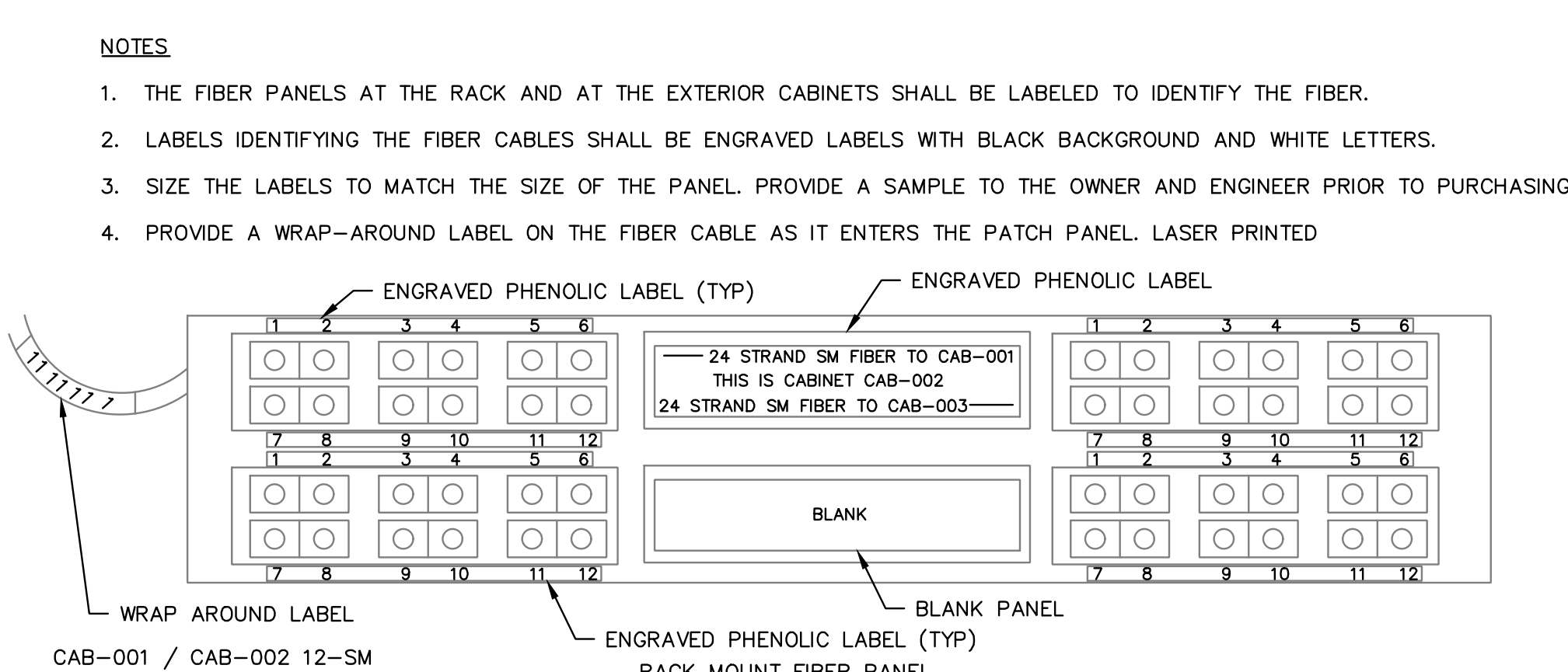


1  
TC102  
FORENSIC PSYCH PLC ROOM SEC1  
(RM E024) RACK LAYOUT

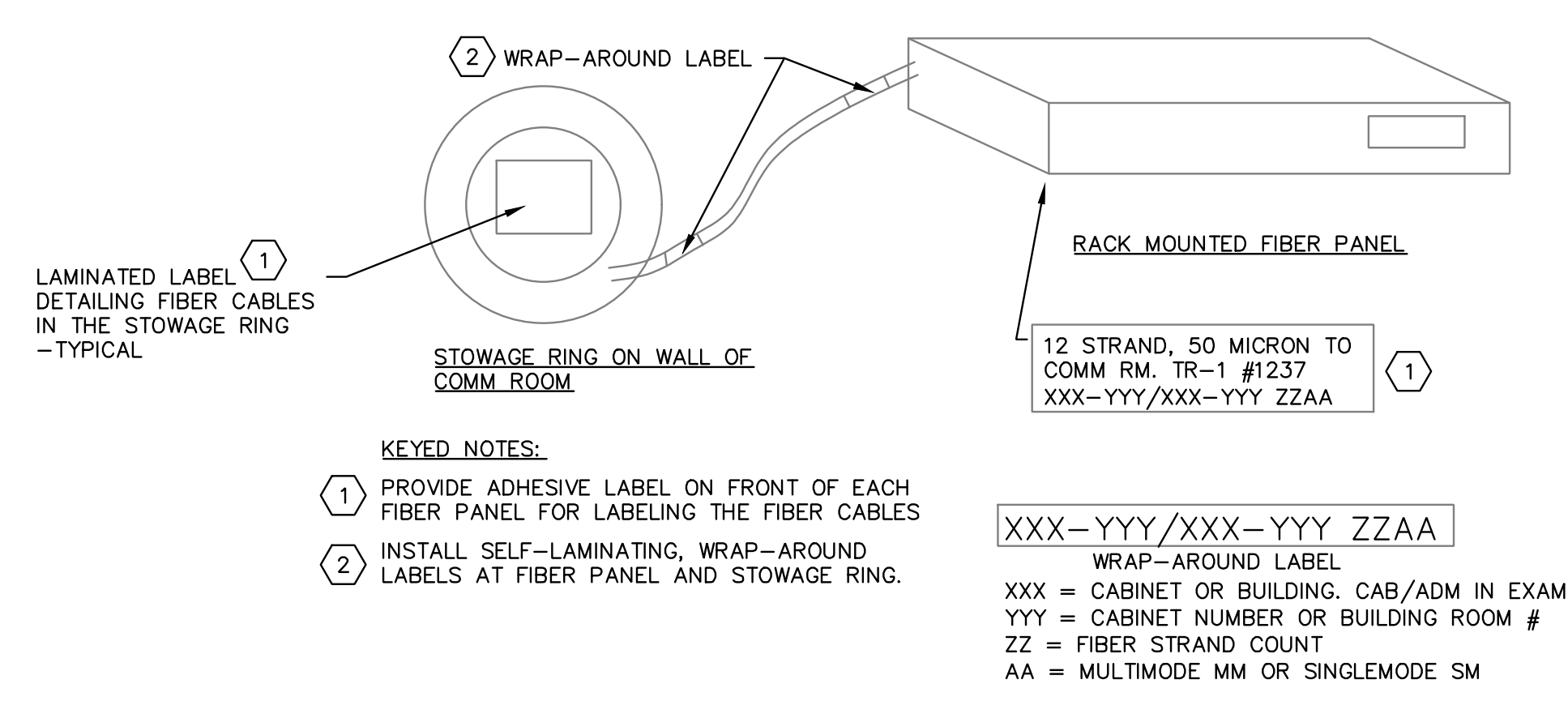


3  
TC102  
FORENSIC PSYCH PLC ROOM SEC3  
(RM E1/E2-206) RACK LAYOUT

2  
TC102  
FORENSIC PSYCH PLC ROOM SEC2  
(RM S3/S4-206) RACK LAYOUT

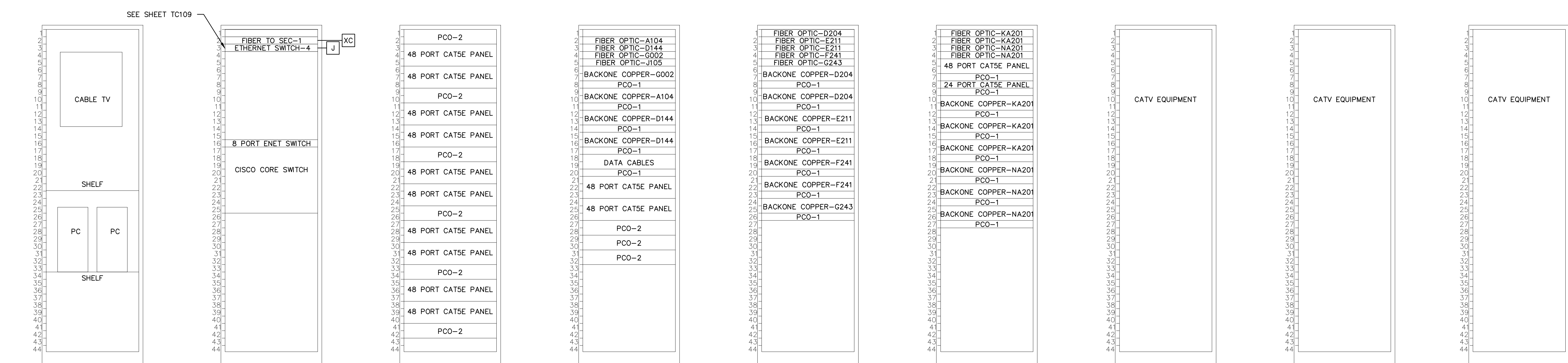


5  
TC102



4  
TC102  
FIBER OPTIC CABLE LABELING

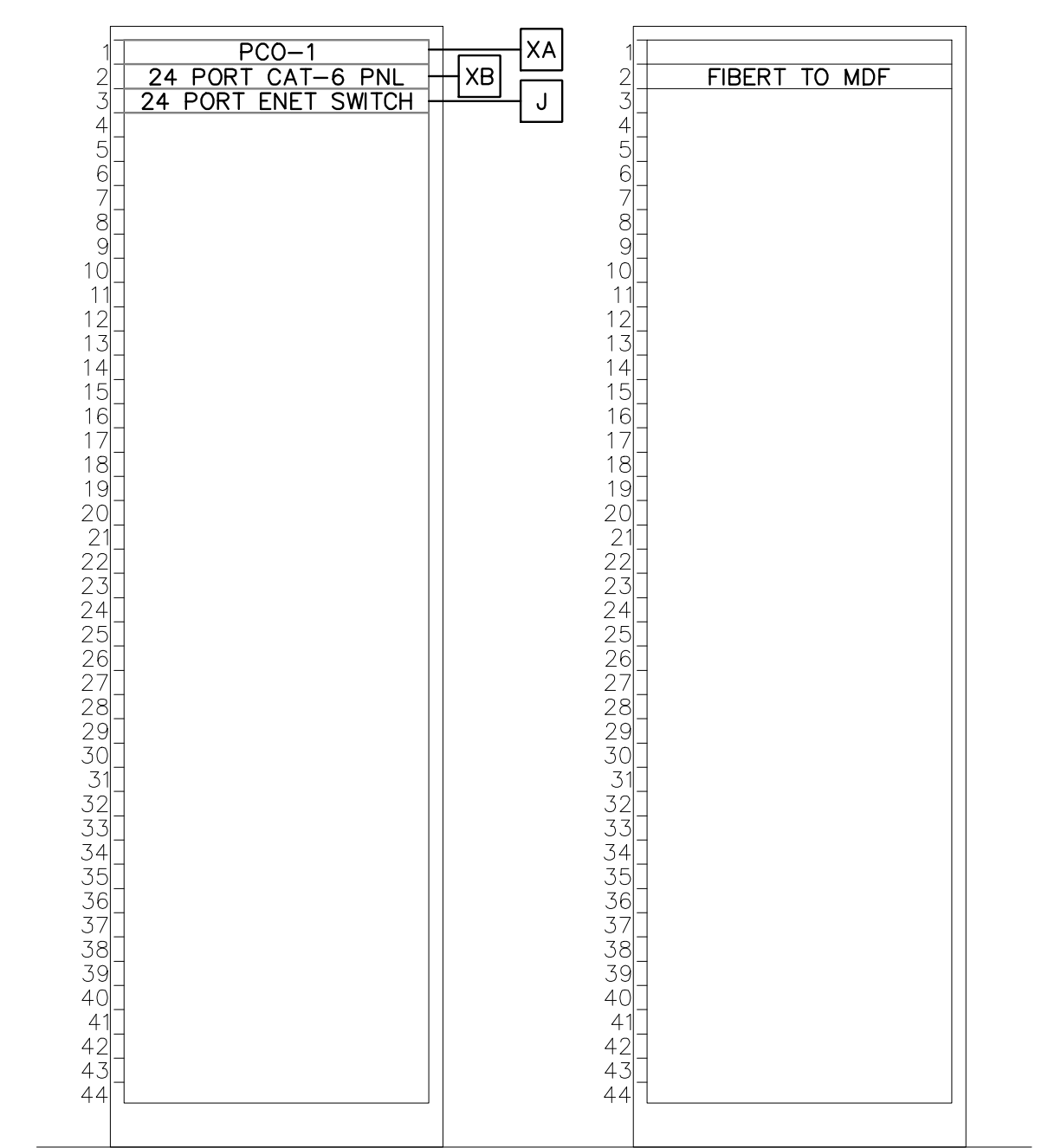
CONTRACTOR SHALL VERIFY EXISTING RACK LAYOUTS AND ADJUST ACCORDINGLY



FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #0  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #1  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #2  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #3  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #4  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #5  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #6  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #7  
FORENSIC PSYCH COMM ROOM MDF EXISTING CABINET #8

1  
TC103  
FORENSIC PSYCH COMM ROOM MDF BASEMENT COMM ROOM

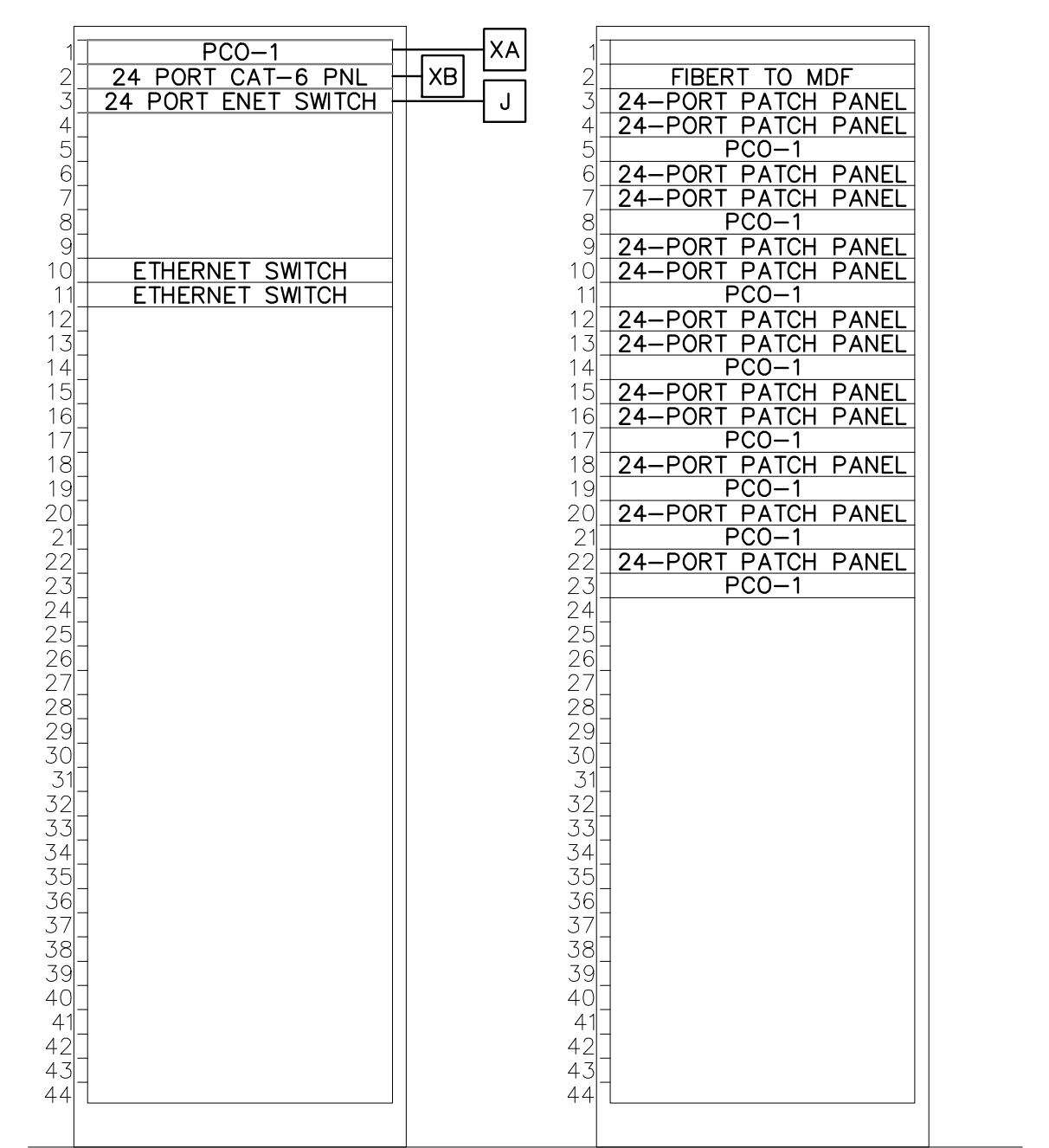
CONTRACTOR SHALL VERIFY EXISTING RACK LAYOUTS AND ADJUST ACCORDINGLY



FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #2  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #1

4  
TC103  
FORENSIC PSYCH COMM ROOM IDF (RM J105) RACK LAYOUT

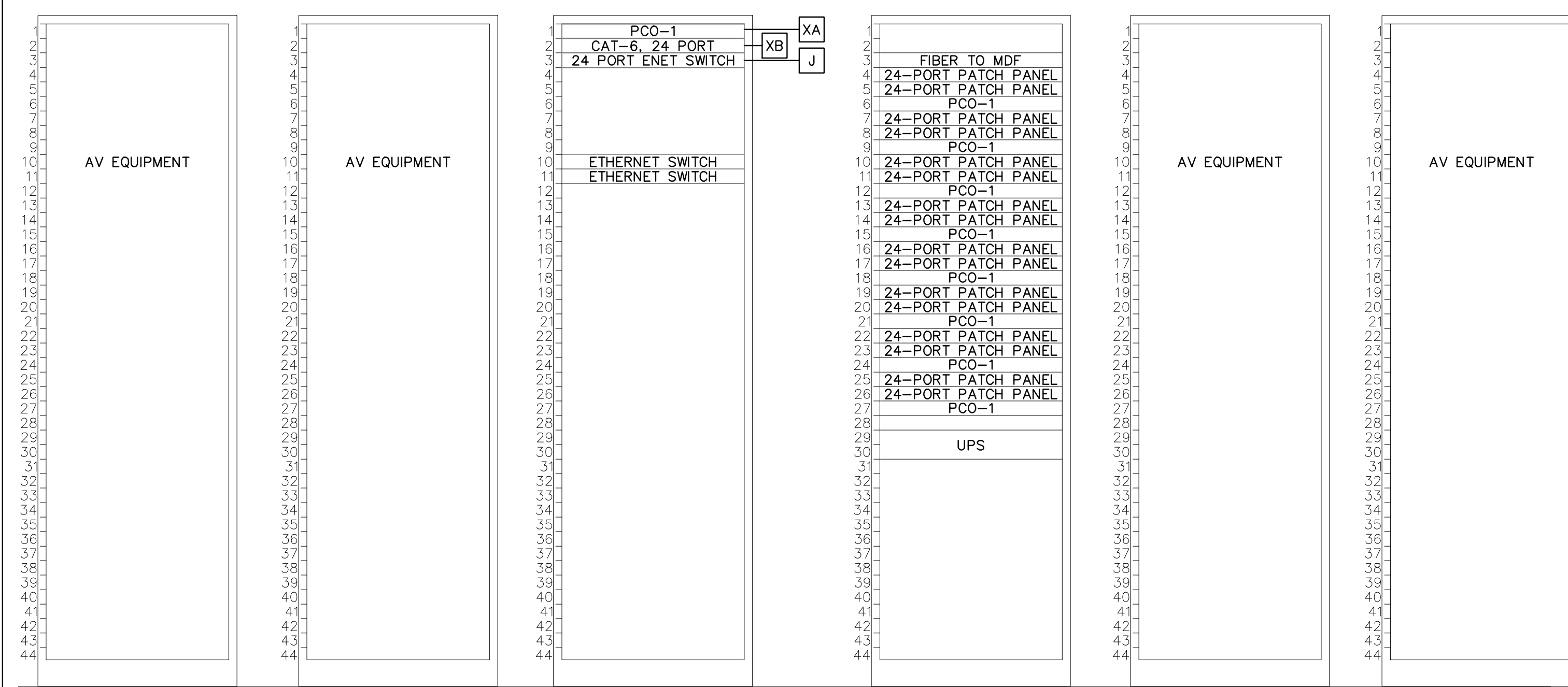
CONTRACTOR SHALL VERIFY EXISTING RACK LAYOUTS AND ADJUST ACCORDINGLY



FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #2  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #1

3  
TC103  
FORENSIC PSYCH COMM ROOM IDF (RM D144) RACK LAYOUT

CONTRACTOR SHALL VERIFY EXISTING RACK LAYOUTS AND ADJUST ACCORDINGLY

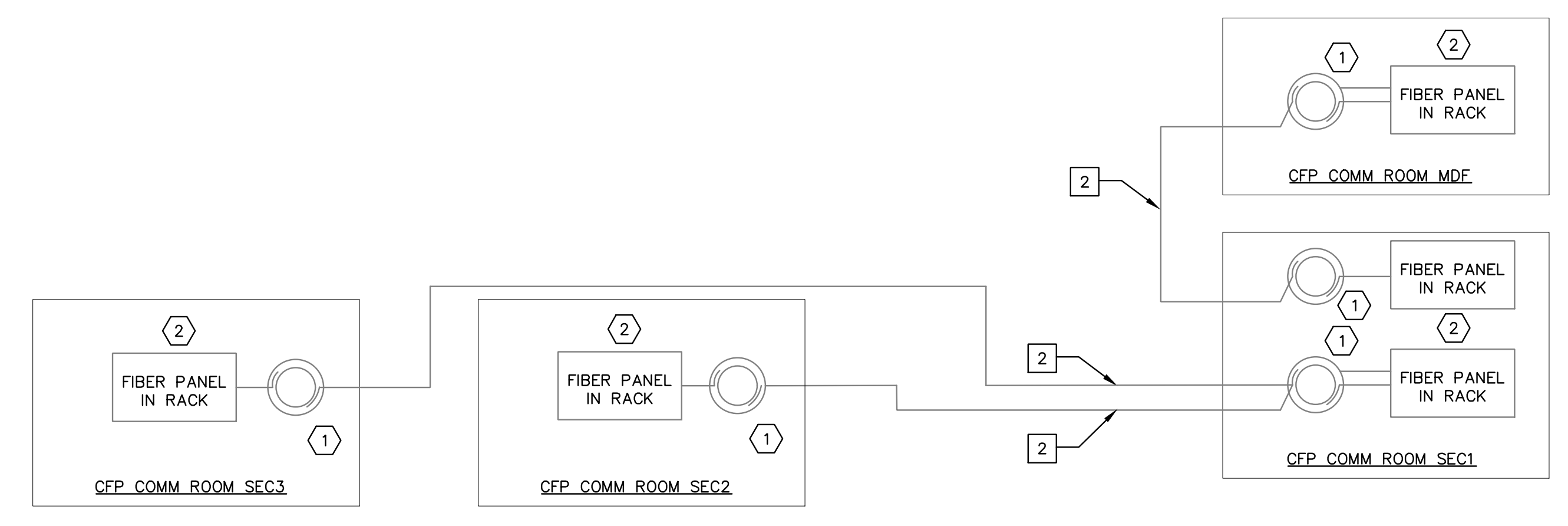


FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #4  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #3  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #4  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #3  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #2  
FORENSIC PSYCH COMM ROOM IDF EXISTING CABINET #1

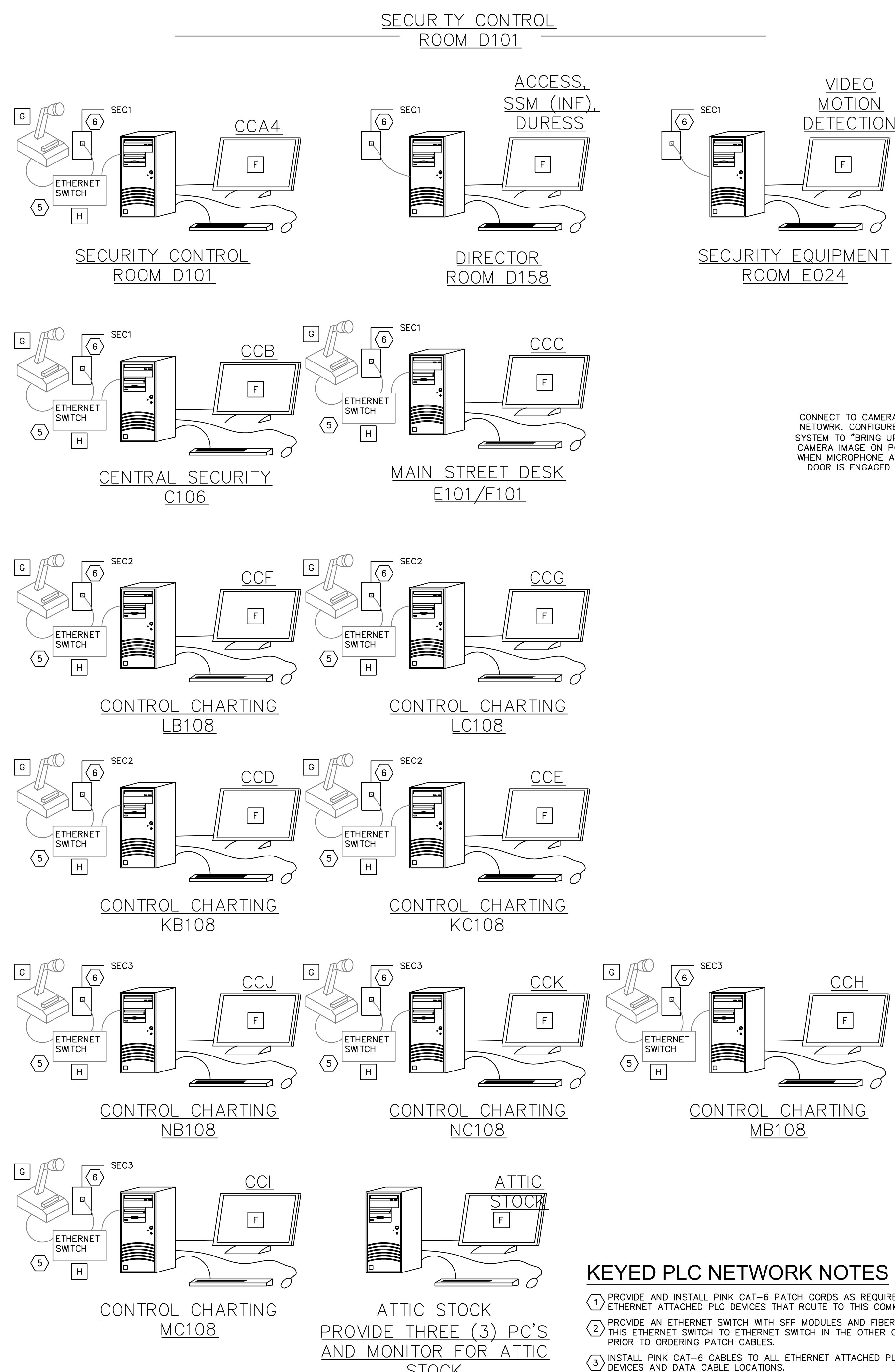
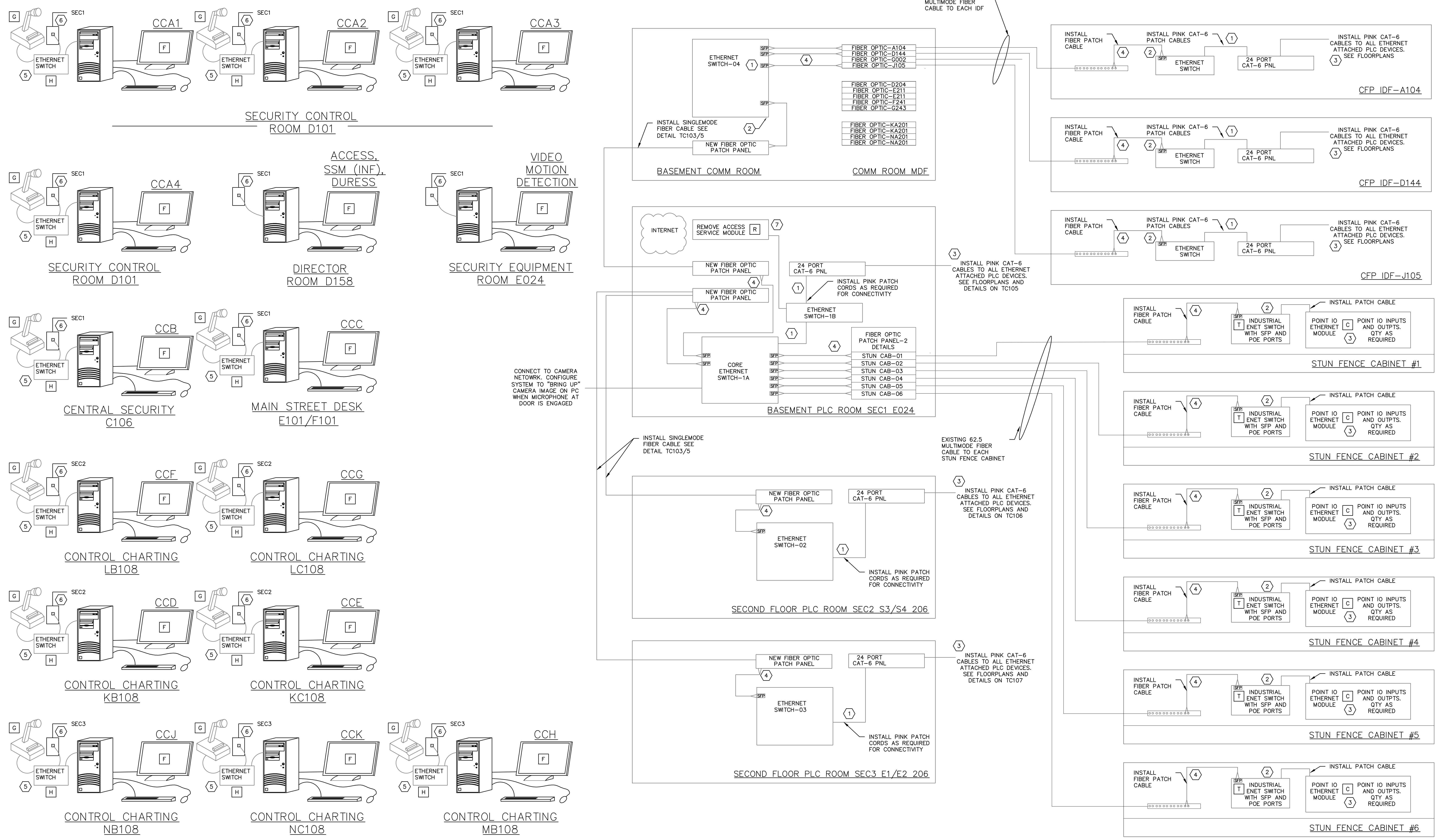
2  
TC103  
FORENSIC PSYCH COMM ROOM IDF (RM A104) RACK LAYOUT

- GENERAL NOTES:**
- INSTALL ALL EQUIPMENT SHOWN. THE CONTRACTOR SHALL WALK THE BUILDING AND SITE WITH THE OWNER PRIOR TO INSTALLATION TO IDENTIFY ACTUAL LOCATION OF ALL EQUIPMENT.
  - INSTALL ALL NEW PASS FIRE RATED PASS THRU'S FOR WALLS AND FLOORS AS REQUIRED TO INSTALL THE FIBER CABLE.
  - IDENTIFY LOCATION OF ALL FIBER PANELS IN THE RACKS WITH THE OWNER. PRIMARILY IDENTIFY AT THE TOP OF THE RACKS IN EACH COMM ROOM.
  - ALL CABLES SHALL HAVE A WRAP-AROUND LABEL AT THE TERMINATION TO IDENTIFY THE CABLE AT EACH END. INSTALL AT COIL ON WALL AND
  - TEST ALL FIBER CABLES FOR LOSS. PROVIDE REPORTS.

- KEYED NOTES:**
- INSTALL FIBER OPTIC RINGS ON THE WALL OF THE COMM ROOM. PROVIDE A SPARE 30' COIL OF CABLE.
  - SEE RACK LAYOUTS FOR FIBER PANEL PARTS.



5  
TC103  
BUILDING FIBER BACKBONE CONNECTIVITY

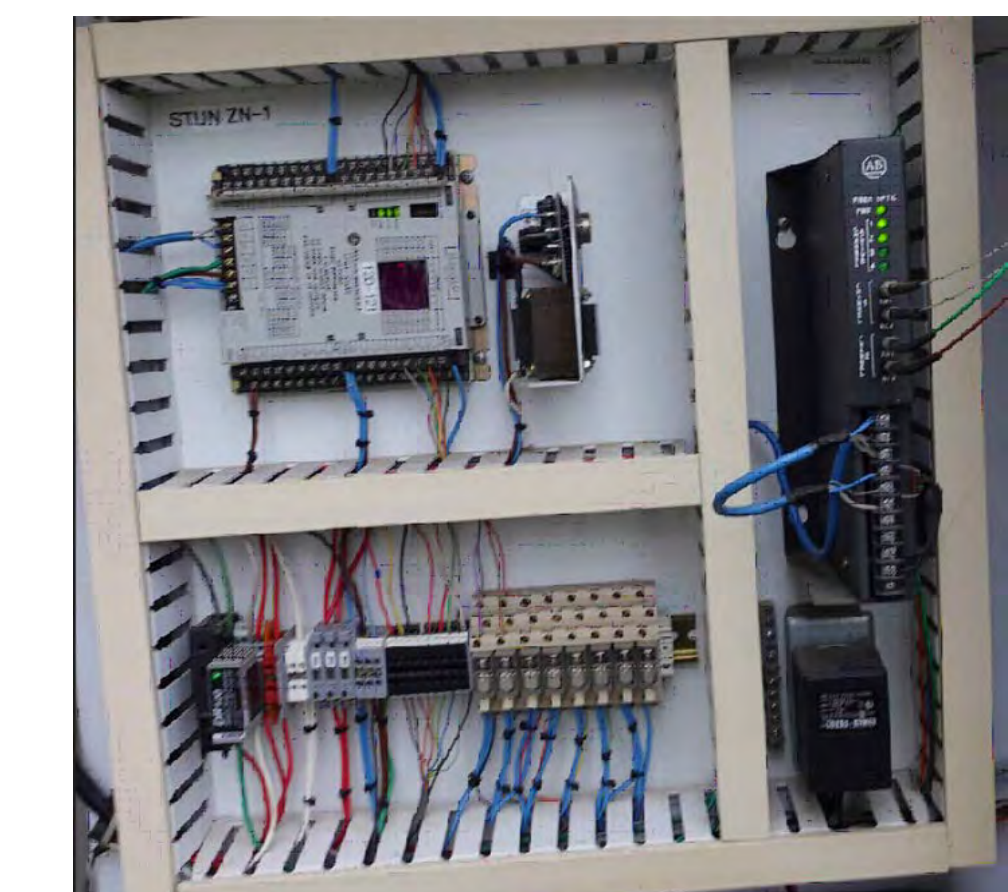


**KEYED PLC NETWORK NOTES**

1. PROVIDE AND INSTALL PINK CAT-6 PATCH CORDS AS REQUIRED FOR CONNECTION OF ALL NEW ETHERNET ATTACHED PLC DEVICES THAT ROUTE TO THIS COMM ROOM.
2. PROVIDE AN ETHERNET SWITCH WITH SFP MODULES AND FIBER OPTIC PATCH CORDS TO CONNECT THIS ETHERNET SWITCH TO ETHERNET SWITCH IN THE OTHER COMM ROOMS. VERIFY CONNECTION TYPE PRIOR TO ORDERING PATCH CABLES.
3. INSTALL PINK CAT-6 CABLES TO ALL ETHERNET ATTACHED PLC DEVICES. SEE FLOORPLANS FOR DEVICES AND DATA CABLE LOCATIONS.
4. INSTALL A FIBER OPTIC PATCH CABLE FOR PLC ETHERNET CONNECTIVITY. EXISTING FIBERS TO IDF ROOMS ARE 62.5 MICRON. NEW FIBER SHALL BE SINGLEMODE.
5. INSTALL ETHERNET SWITCH BETWEEN EXISTING FACEPLATE AND PC. CONNECT PC AND MICROPHONE TO THIS SWITCH.
6. EXISTING CAT-5E CABLE TO SEC(X) ROOM. UTILIZE THIS FOR INSTALLATION AND CONNECTIVITY OF ETHERNET SWITCH, PC AND NEW IP MICROPHONE FOR PAGING SYSTEM.
7. INSTALL A MODULE TO ALLOW THE CONTRACTOR TO REMOTELY CONFIGURE AND VERIFY CONNECTIVITY OF THE SYSTEM. THIS SHALL BE ATTACHED TO OWNER PROVIDED ETHERNET/INTERNET CONNECTION. CONFIGURE TO ALLOW REMOTE CONTRACTOR TO REVIEW, CONFIGURE AND FIX THE SYSTEM.

**GENERAL PLC NETWORK NOTES**

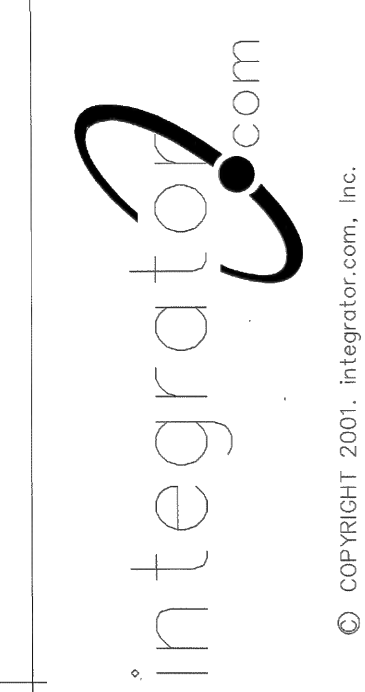
1. THE CONTRACTOR REMOVE EXISTING PLC CONTROLLER DEVICES AND CHASSIS AND LVRP DEVICES. REPLACE WITH ETHERNET ATTACHED PLC DEVICES.
2. INSTALL PINK CAT-6 CABLE FROM EACH ETHERNET ATTACHED PLC DEVICE THAT IS INSTALLED AS PART OF THIS SYSTEM. ROUTE TO COMM ROOM SEC(X).
3. REPLACE EXISTING "BLUE-HOSE" CONNECTED CONTROLLERS WITH ETHNET ATTACHED DEVICES. RECONNECT ALL PLC CONTROLLED DEVICES TO THE NEW ETHERNET ATTACHED DEVICE. PROVIDE INPUT AND OUTPUT CARDS AS REQUIRED FOR CONNECTIVITY TO EXISTING EQUIPMENT.
4. SEE PICTURE FOR TYPICAL EXISTING CONNECTIVITY OF LVRP AND CHASSIS DEVICES.
5. CONTRACTOR SHALL PROVIDE ALL FIBER AND CAT-6 PATCH CORDS REQUIRED FOR CONNECTIVITY OF THE NEW SYSTEMS. THIS SHALL INCLUDE ALL BRAND NEW CAT-6 PATCH CORDS IN FOR EACH ETHERNET SWITCH.
6. ALL CONNECTIVITY BETWEEN CABINETS AND MDF COMM ROOM SHALL BE 1 GIGABIT. COORDINATE AND PROVIDE ETHERNET SWITCHES AT EACH END TO CONNECT.
7. REMOVE EXISTING PLC MODULES. CONNECT NEW ETHERNET DEVICE AND CONNECT TO ALL INPUTS AND OUTPUTS AT EACH DEVICE IN THE BUILDING. REMOVE ALL EQUIPMENT THAT IS NO LONGER IN USE FROM THE CABINETS IN ALL COMM ROOMS AND AT THE LVRP PANELS.
8. CONNECT NEW PC DEVICE TO NEW NETWORK DEVICES IN EACH SEC(X) COMM ROOM. USE PINK PATCH CABLES AT EACH END OF EXISTING CABLE.
9. CREATE CONTROLS ON THE CONTROL SOFTWARE AND GUI SOFTWARE TO ACKNOWLEDGE, CONTROL AND RESET ALARMS AND DOORS AND ALL OTHER DEVICES CURRENTLY CONTROLLED ON THE PLC SYSTEM. RECREATE ALL CONTROLS AND INPUTS/OUTPUTS THAT CURRENTLY EXIST.



**TYPICAL STUN FENCE CABINET PLC DEVICES AND INTERFACE**

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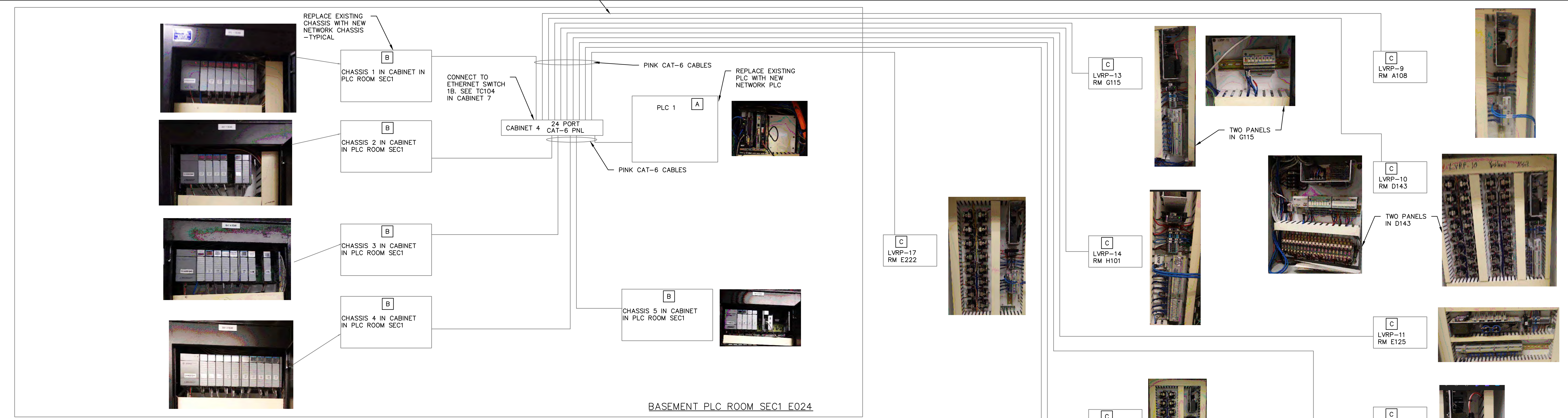
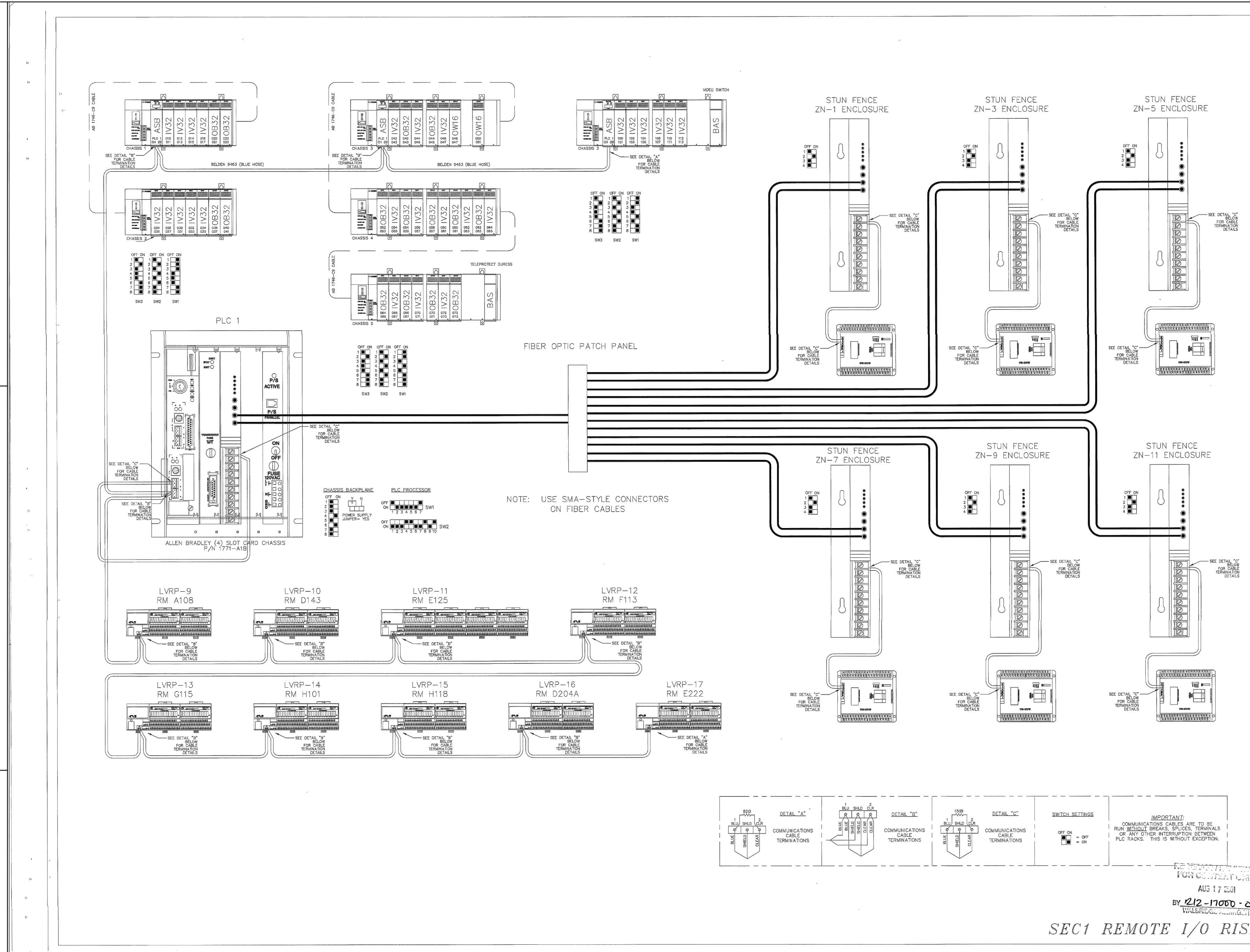
8001 East 196th Street  
Noblesville, Indiana 46060  
Phone: (317) 776-3512  
www.integrator.com



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FILE: REMOTE I/O RISER  
JOB #:  
DATE:  
CADD:  
SOFTWARE:  
PROJECT MANAGER:  
REVISIONS  
BY: DATE  
DESCRIPTION

FILENAME: YPSI050-0.DWG  
DWG NO.:  
ES050.0



**GENERAL PLC NOTES**

1. THE CONTRACTOR REMOVE EXISTING PLC CONTROLLER DEVICES AND CHASSIS AND LVRP DEVICES. REPLACE WITH ETHERNET ATTACHED PLC DEVICES.
2. INSTALL PINK CAT-6 CABLE FROM EACH ETHERNET ATTACHED PLC DEVICE THAT IS INSTALLED AS PART OF THIS SYSTEM.
3. REPLACE EXISTING "BLUE-HOSE" CONNECTED CONTROLLERS WITH ETHERNET ATTACHED DEVICES. RECONNECT ALL PLC CONTROLLED DEVICES TO THE NEW ETHERNET ATTACHED DEVICE. PROVIDE INPUT AND OUTPUT CARDS AS REQUIRED FOR CONNECTIVITY.
4. SEE PICTURE FOR TYPICAL EXISTING CONNECTIVITY OF LVRP AND CHASSIS DEVICES.
5. CONTRACTOR SHALL PROVIDE ALL FIBER AND CAT-6A PATCH CORDS REQUIRED FOR CONNECTIVITY OF THE NEW SYSTEMS. THIS SHALL INCLUDE ALL BRAND NEW CAT-6 PATCH CORDS IN FOR EACH ETHERNET SWITCH.
6. ALL CONNECTIVITY BETWEEN CABINETS AND MDF COMM ROOM SHALL BE 1 GIGABIT. COORDINATE AND PROVIDE ETHERNET SWITCHES AT EACH END TO CONNECT.
7. REMOVE EXISTING PLC MODULES. CONNECT NEW ETHERNET DEVICES AND CONNECT TO ALL INPUTS AND OUTPUTS AT EACH DEVICE IN THE BUILDING.
8. CONNECT NEW PC DEVICE TO NEW NETWORK DEVICES IN EACH COMM ROOM. USE PINK PATCH CABLES AT EACH END OF EXISTING CABLE.
9. CREATE CONTROLS ON THE CONTROL SOFTWARE AND GUI SOFTWARE TO ACKNOWLEDGE, CONTROL AND RESET ALARMS AND DOORS AND ALL OTHER DEVICES CURRENTLY CONTROLLED ON THE PLC SYSTEM. RECREATE ALL CONTROLS AND INPUTS/OUTPUTS THAT CURRENTLY EXIST.

**KEYED PLC NOTES**

1. PROVIDE AND INSTALL PINK CAT-6 PATCH CORDS AS REQUIRED FOR CONNECTION OF ALL NEW ETHERNET ATTACHED PLC DEVICES THAT ROUTE TO THIS COMM ROOM.
2. PROVIDE AN ETHERNET SWITCH WITH SFP MODULES AND FIBER OPTIC PATCH CORDS TO CONNECT THIS ETHERNET SWITCH TO ETHERNET SWITCH IN THE MDF. VERIFY CONNECTION TYPE PRIOR TO ORDERING PATCH CABLES.
3. INSTALL PINK CAT-6 CABLES TO ALL ETHERNET ATTACHED PLC DEVICES. SEE FLOORPLANS FOR DEVICES AND DATA CABLE LOCATIONS.
4. INSTALL A FIBER OPTIC PATCH CABLE FROM CORE SWITCH-01 IN SECURITY COMM ROOM IN THE BASEMENT TO CORE SWITCH-02 IN THE MDF.

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file no.  
491/23066.SDW  
index no.  
00800  
contract order no.

consultant job no.  
1065\_105

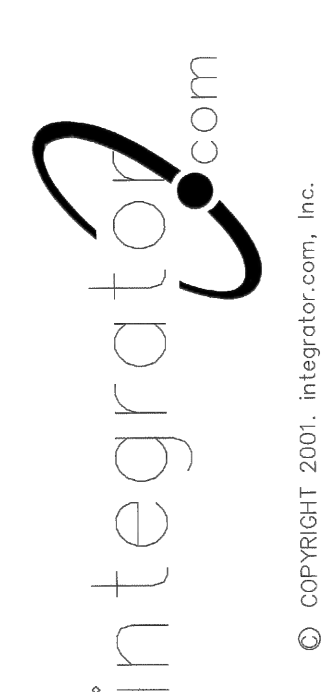
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**TC105**  
EXISTING & NEW PLC 1  
WIRING DIAGRAM

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FILENAME: YP0050-1.DWG

DWG NO.

AUG 17 2001

SEC2 REMOTE I/O RISER

PROJECT MANAGER

DESIGN

JOB #

DATE

REMOTE I/O RISER

TITLE

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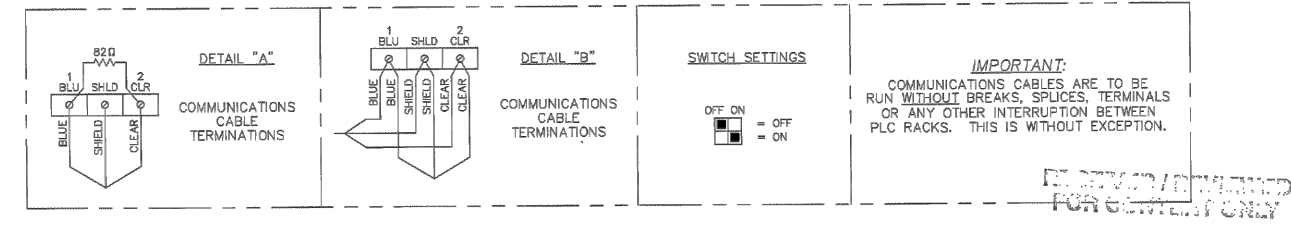
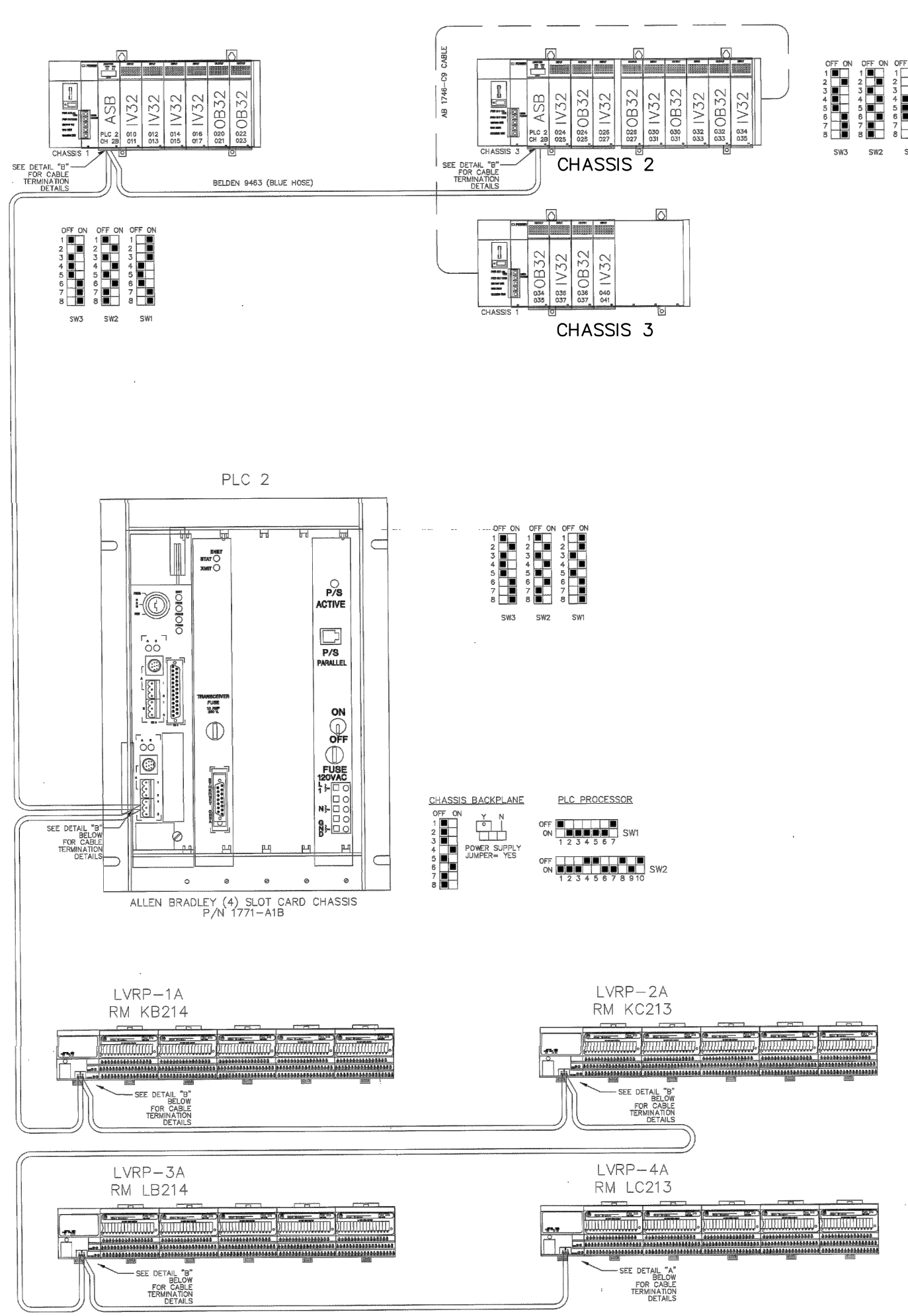
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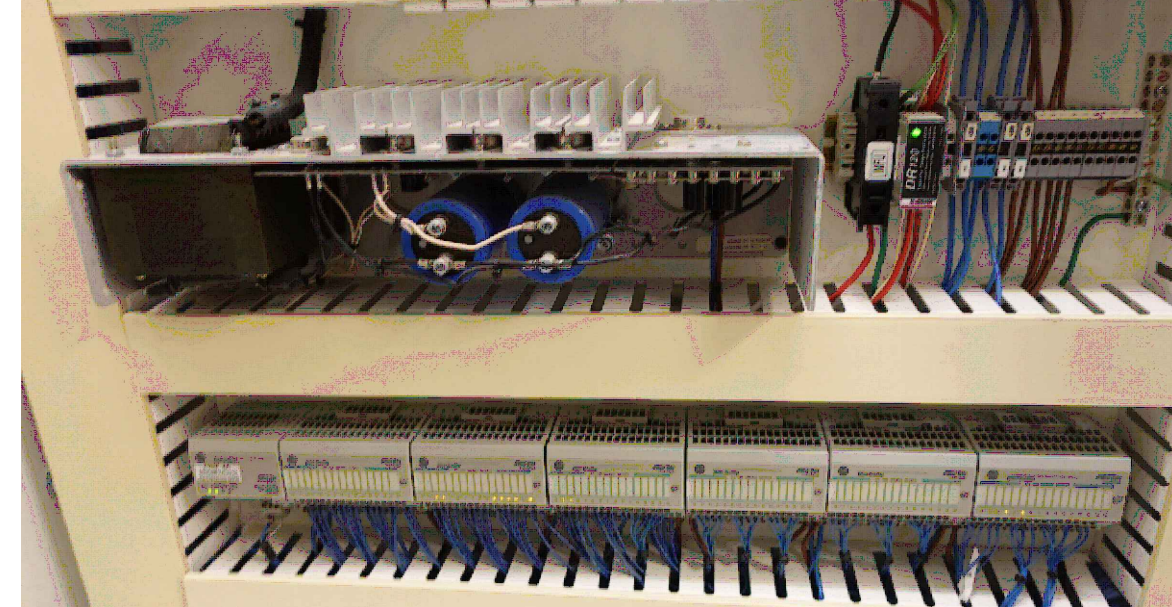
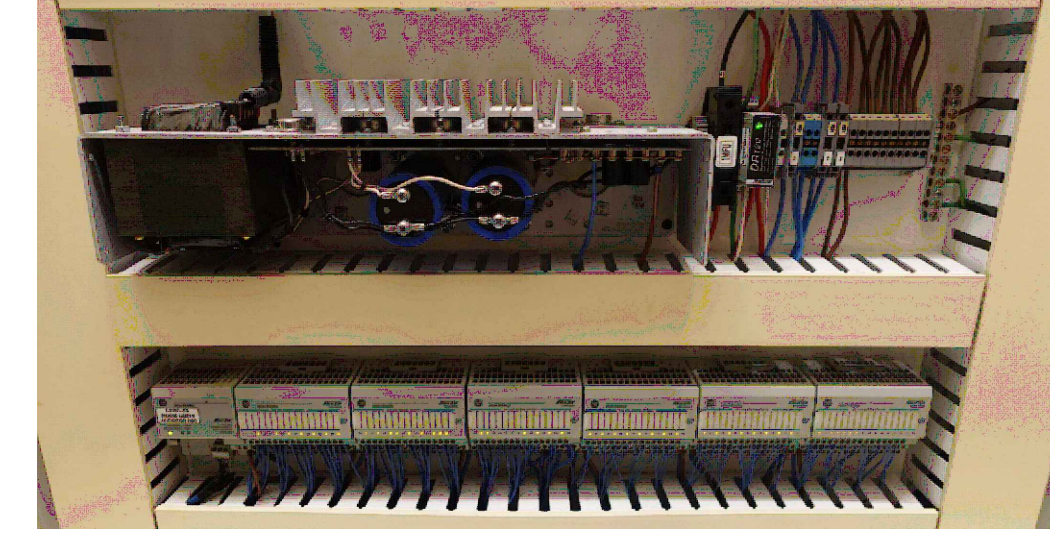
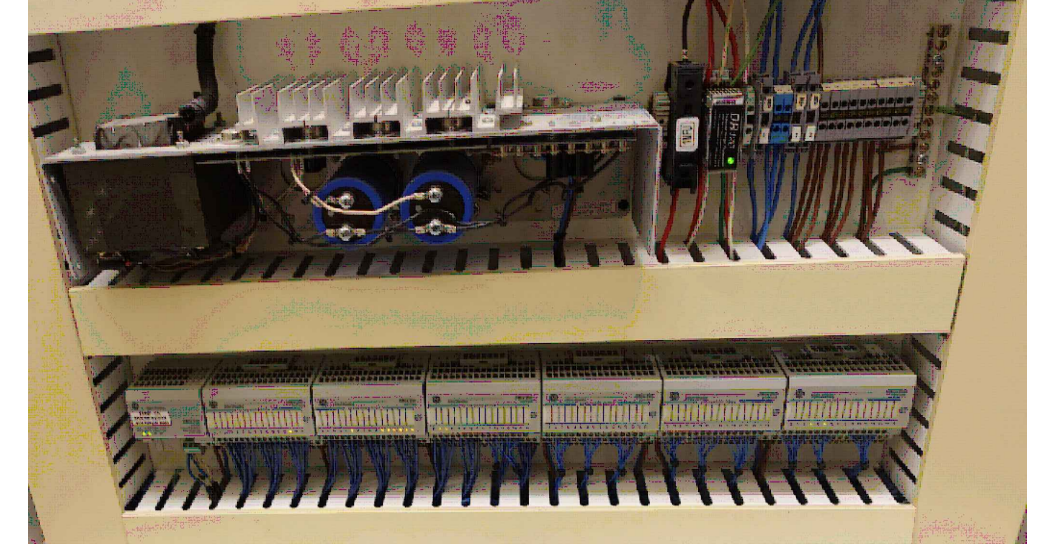
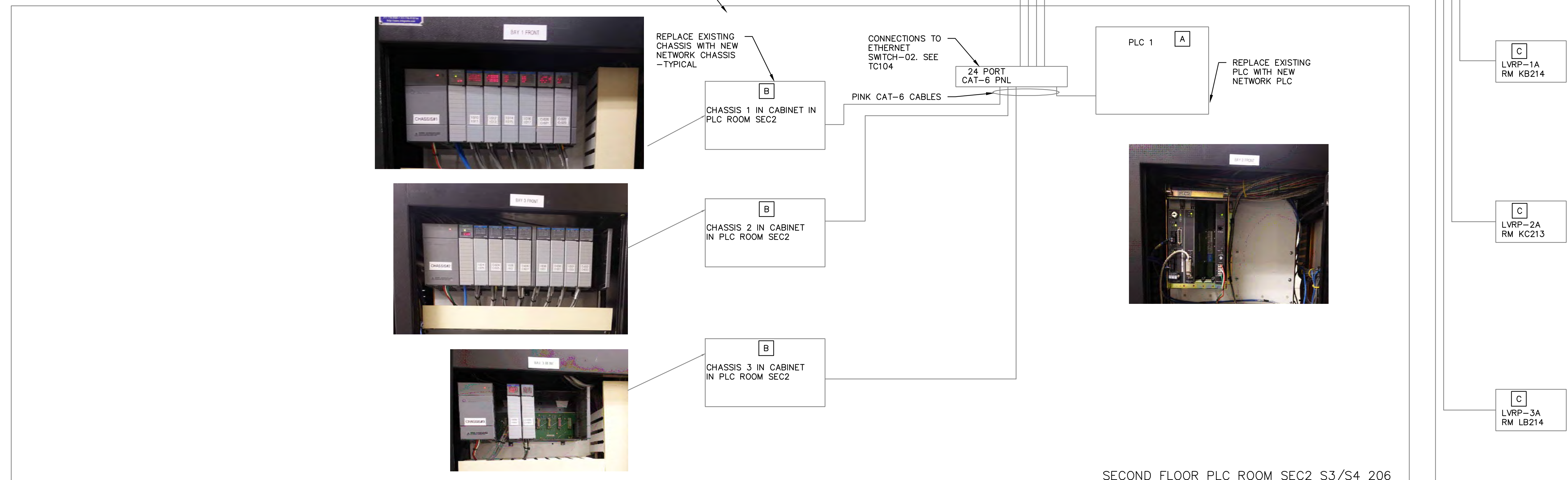
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SEC2 REMOTE I/O RISER



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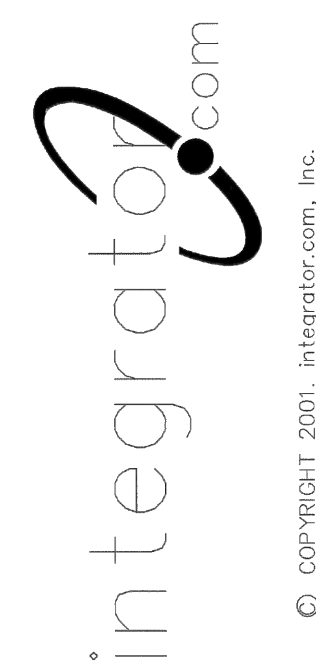
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SHEET NUMBER

TC106  
EXISTING & NEW PLC 2  
WIRING DIAGRAM

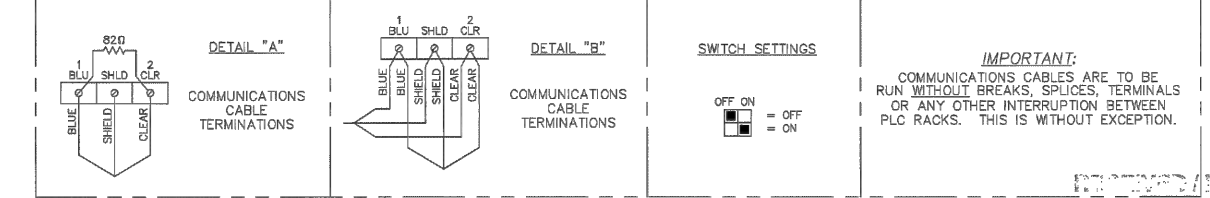
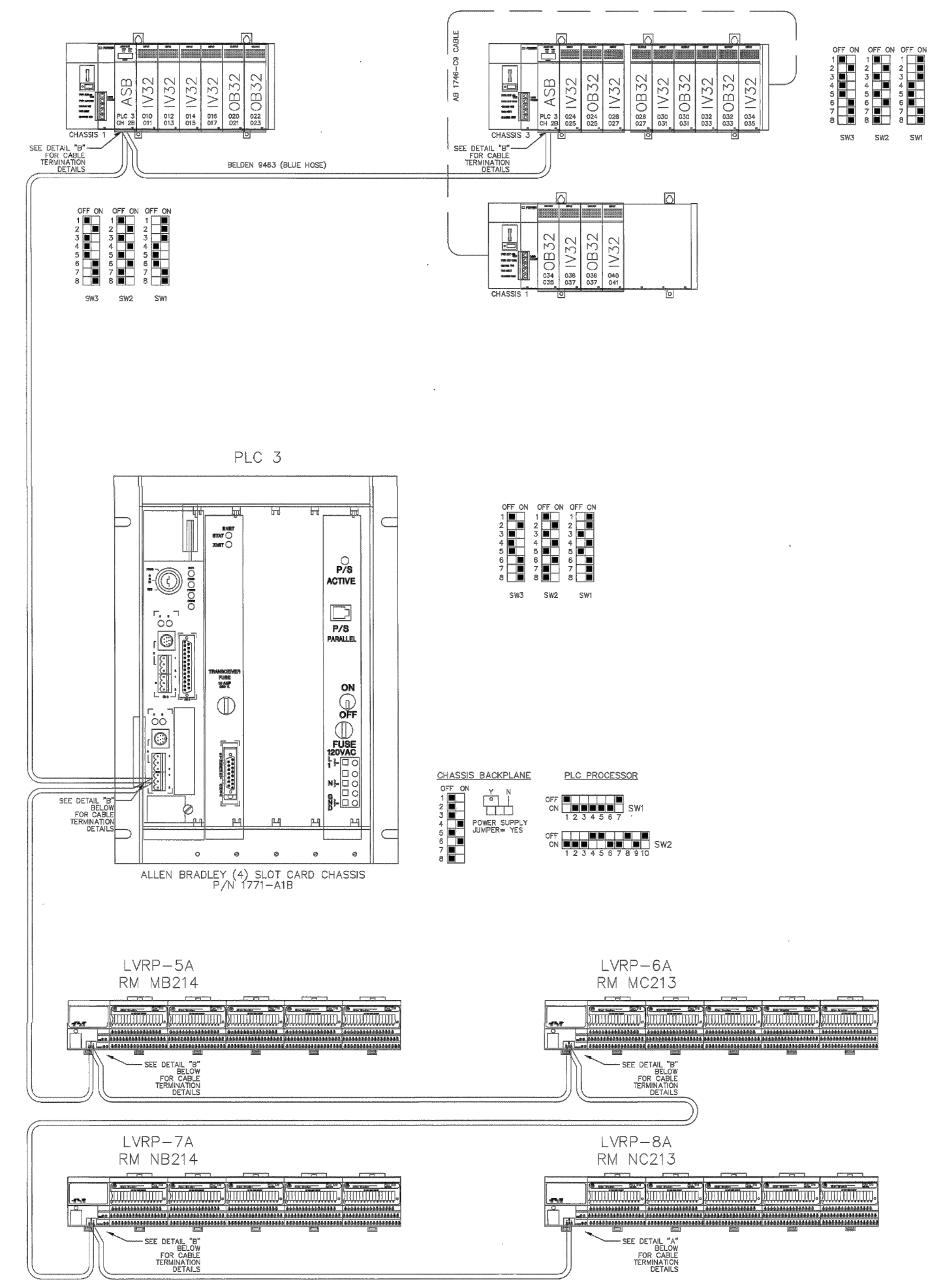


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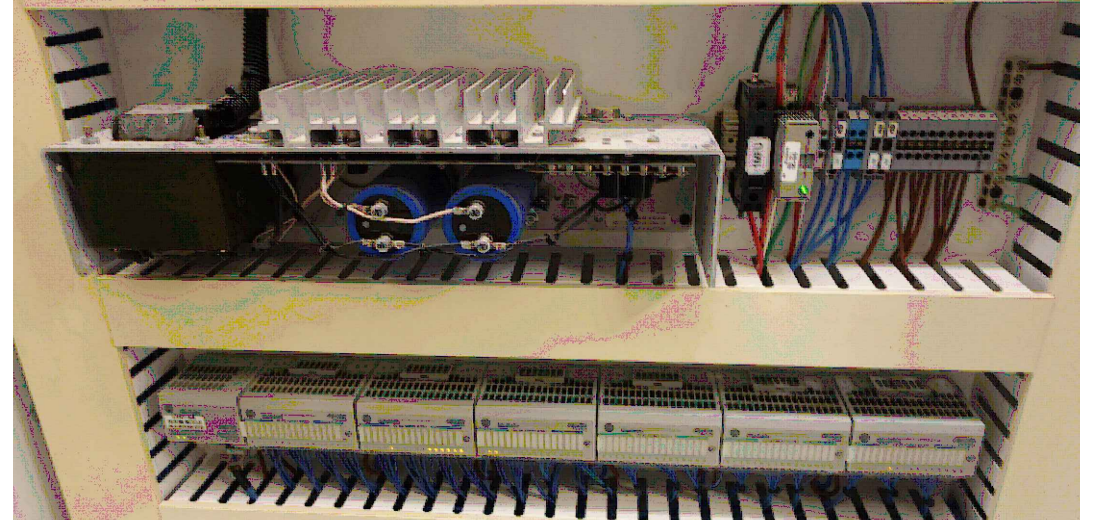
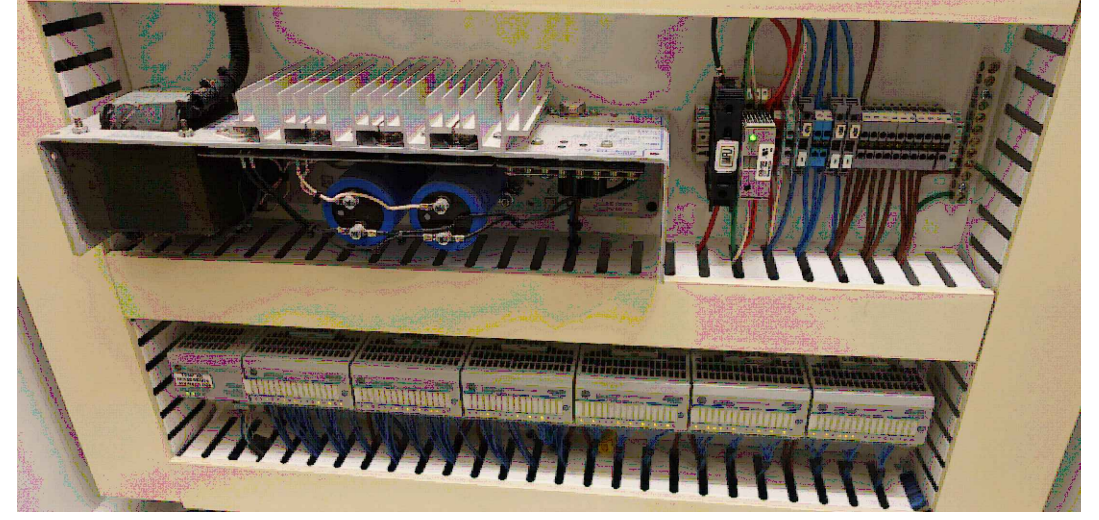
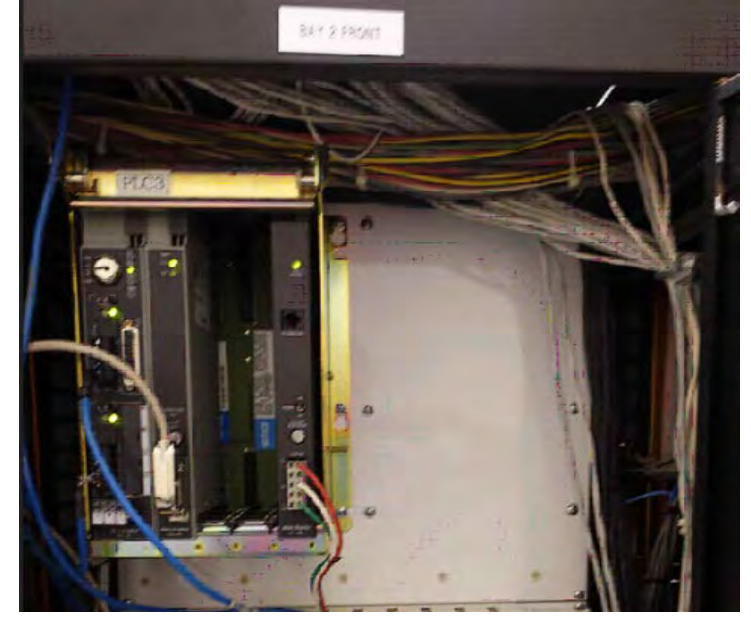
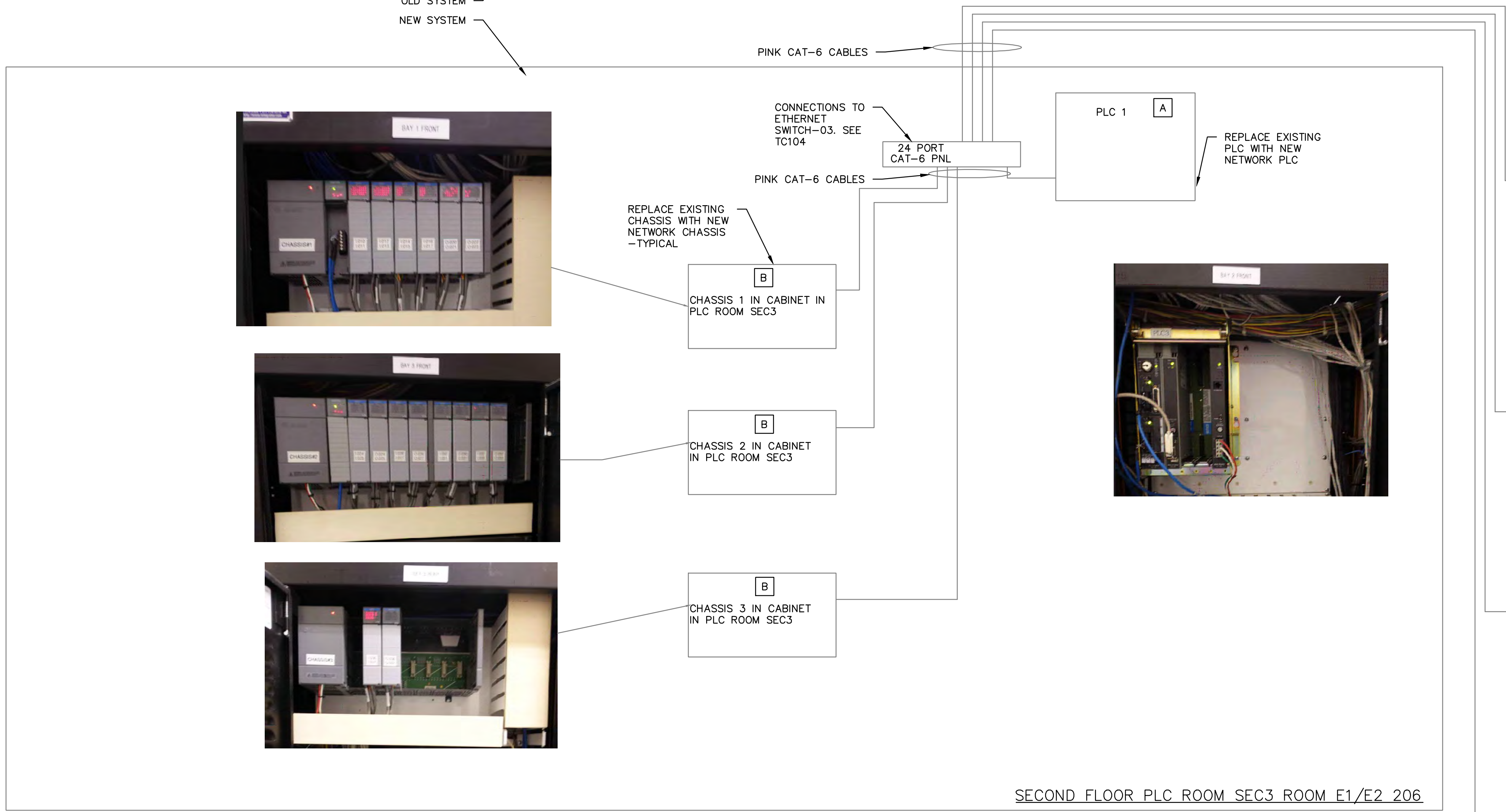


TITLE	REMOTE I/O RISER
JOB #	
DATE	
DRAWN BY	
SOFTWARE	
PROJECT MANAGER	
REVISIONS	
DESCRIPTION	
DATE	
BY	
FILE NAME	YPSIO50-2.DWG
DWG NO.	ES050.2



SEC3 REMOTE I/O RISER

OLD SYSTEM  
NEW SYSTEM



LVRP-5A  
RM MB214

LVRP-6A  
RM MC213

LVRP-7A  
RM NB214

LVRP-8A  
RM NC213

SECOND FLOOR PLC ROOM SEC3 ROOM E1/E2\_206

1 SECOND FLOOR PLC ROOM SEC3 SYSTEM  
TC107

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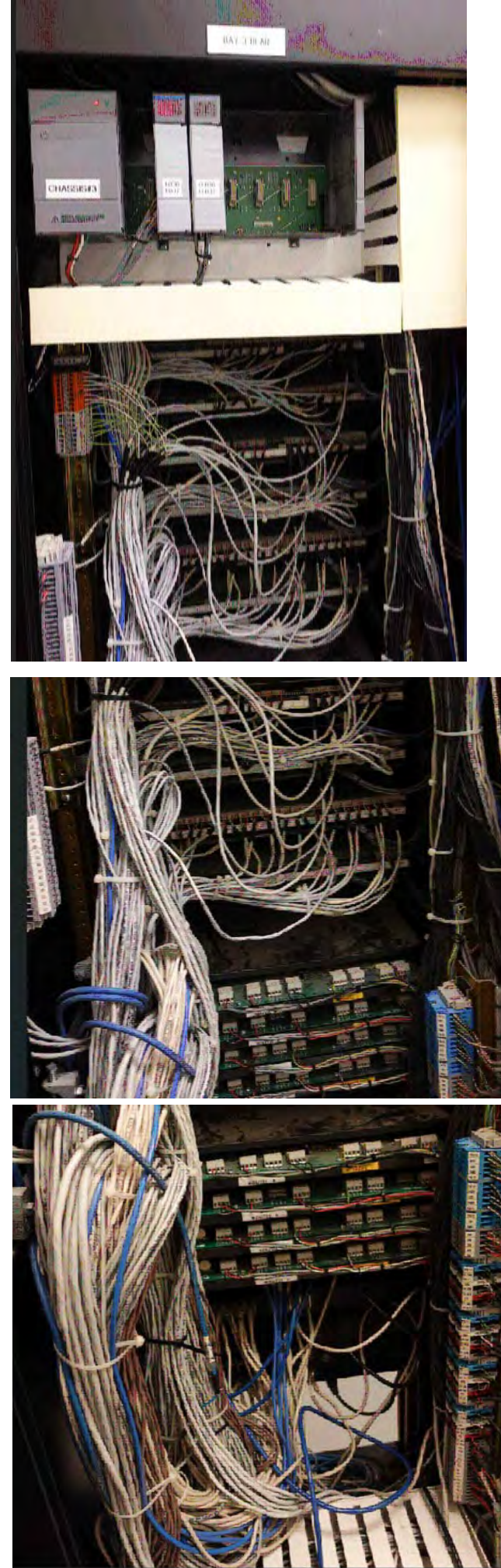


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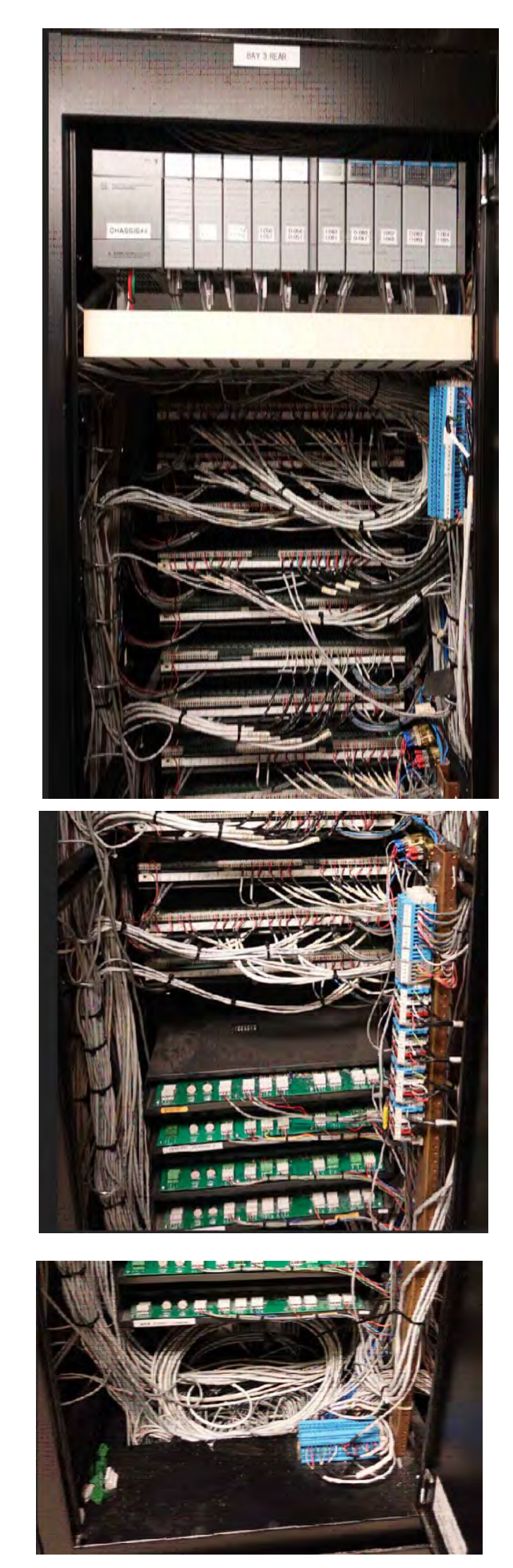
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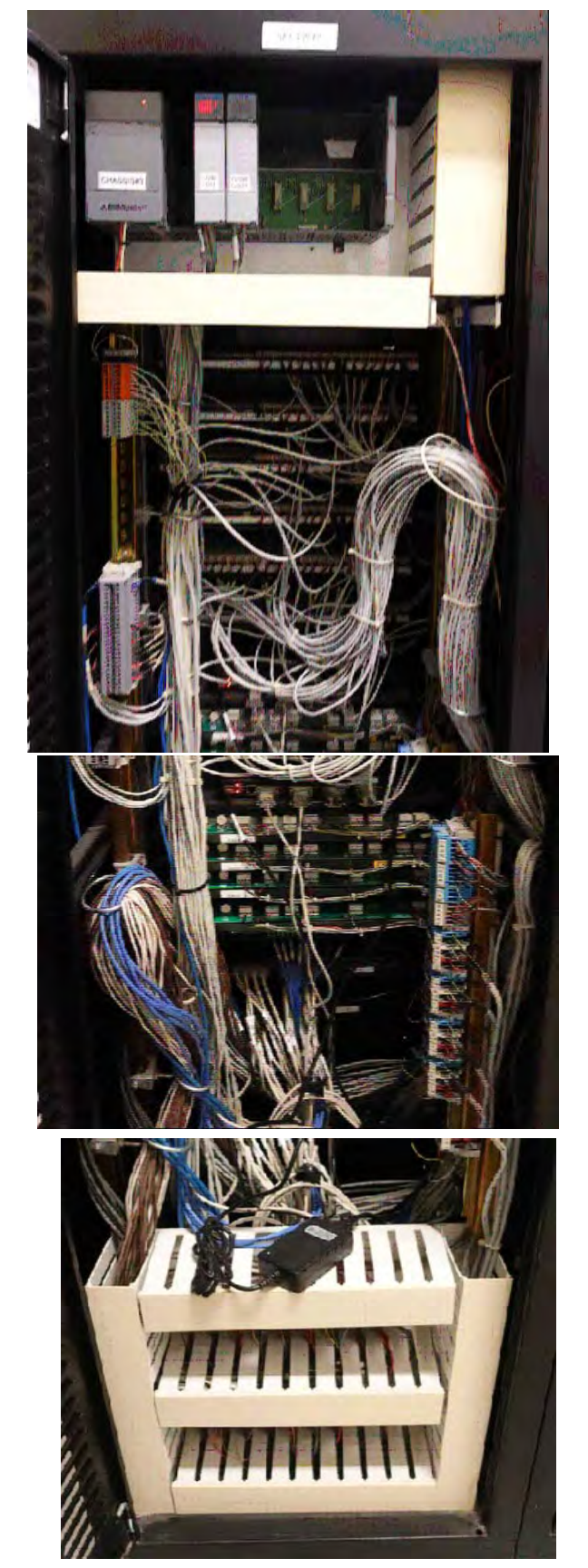
TC107  
EXISTING & NEW PLC 3  
WIRING DIAGRAM



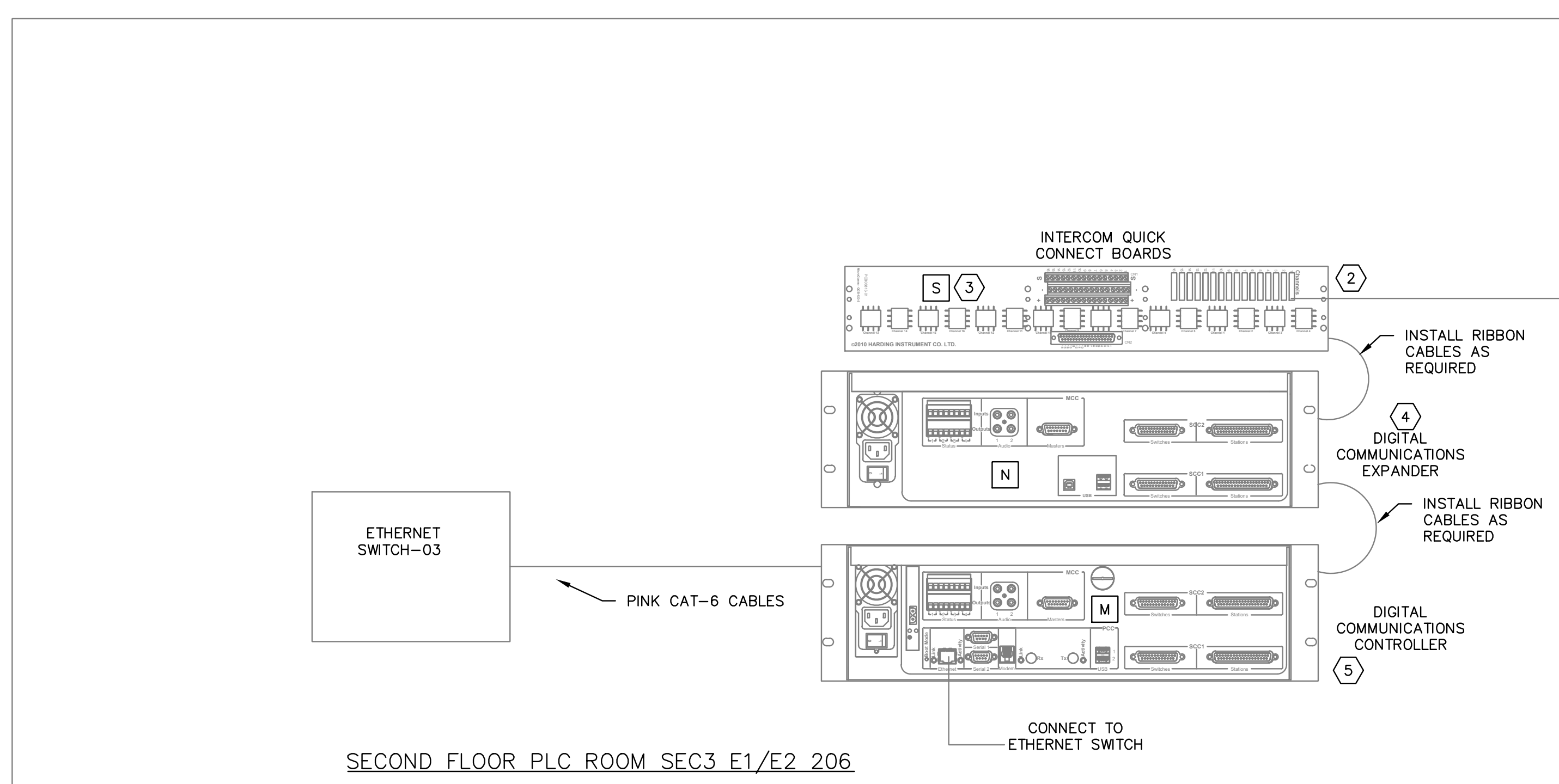
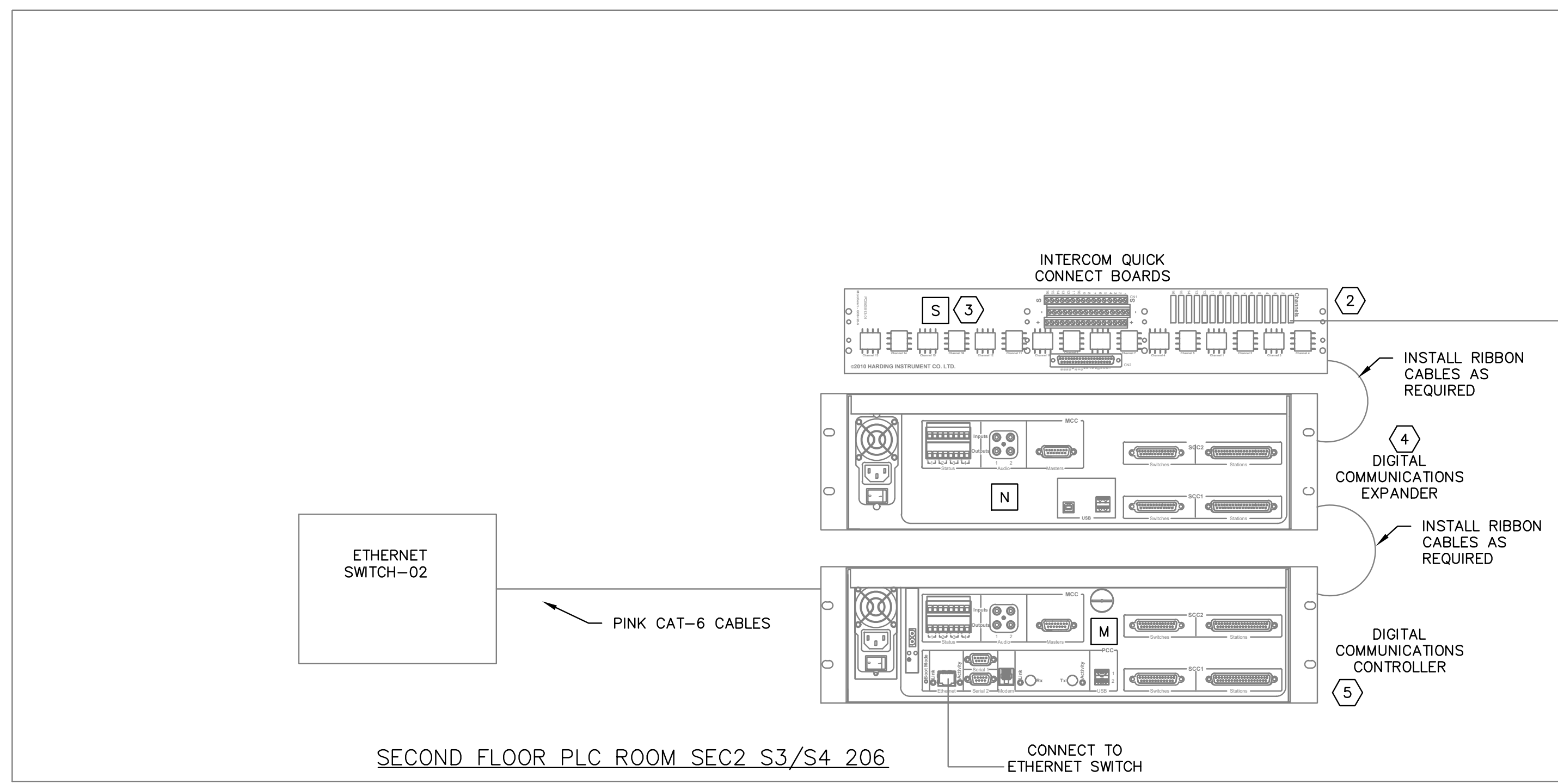
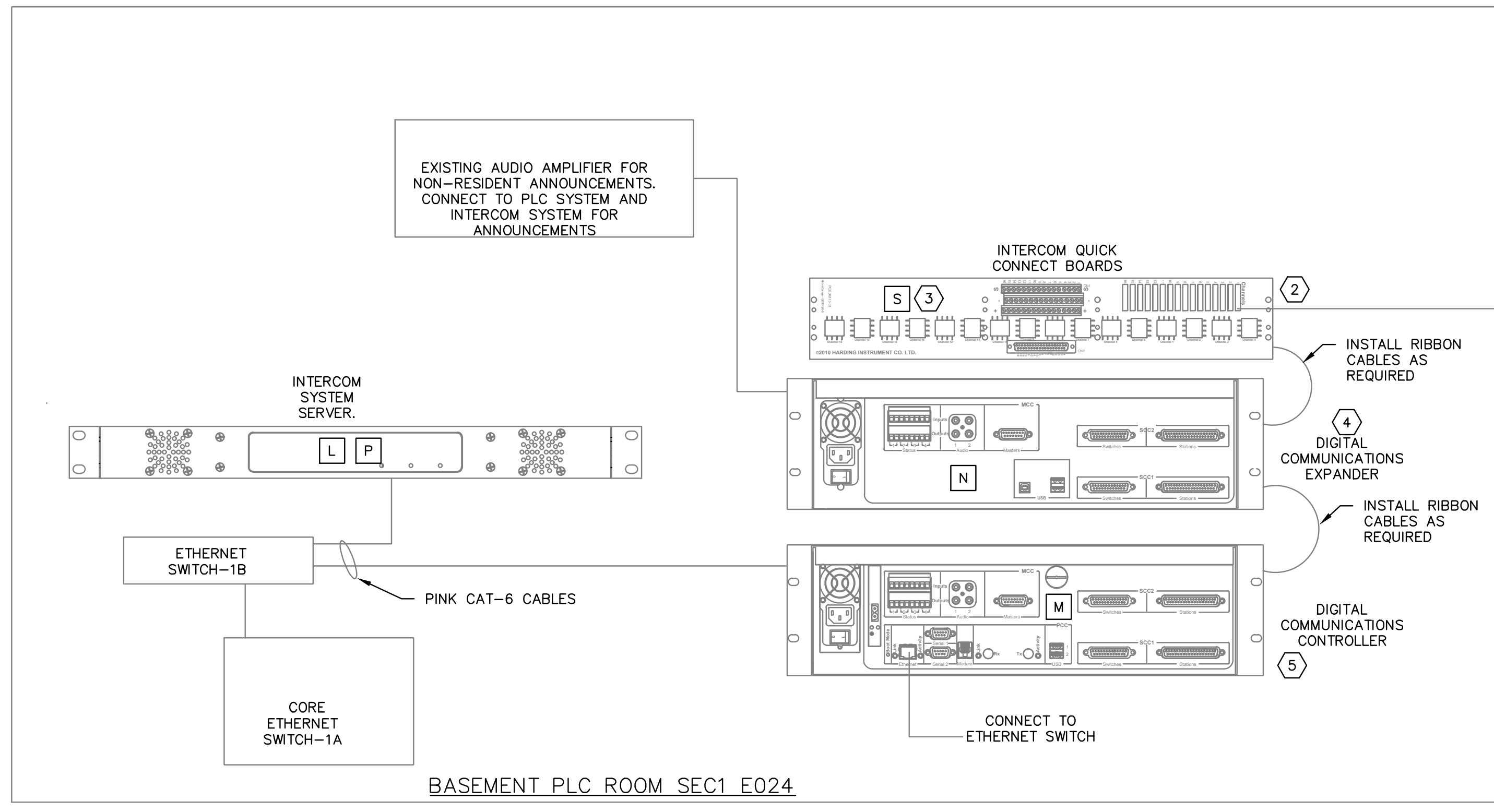
SECOND FLOOR PLC ROOM SEC2 S3/S4  
206 INTERCOM CABINET



BASEMENT PLC ROOM SEC1 E024  
INTERCOM CABINET



SECOND FLOOR PLC ROOM SEC3 E1/E2  
206 INTERCOM CABINET



**KEYED INTERCOM NOTES**

1. REPLACE THE ACTUAL INTERCOM DEVICE AT THE DOOR AS PART OF ALTERNATE #1. INCLUDE IN ALTERNATE #1 THE COST TO RE-TERMINATE EXISTING CABLE TO NEW INTERCOM DEVICE. SEE FLOORPLANS FOR INTERCOM QUANTITY.
2. UTILIZE EXISTING INTERCOM CABLES AND CONNECT TO NEW QUICK CONNECT BOARD. REMOVE EXISTING DIKANE BOARDS. ENSURE EACH INTERCOM CABLE IS LABELED. MARK ON DRAWINGS EACH INTERCOM NUMBER AND RE-LABEL CABLE AT QCB BOARD WITH INTERCOM NUMBER. ENTER THIS INFORMATION INTO A SPREADSHEET FOR AS BUILTS.
3. PROVIDE QUANTITY OF QCB BOARDS AS REQUIRED TO TERMINATE ALL INTERCOMS.
4. PROVIDE DCE DEVICES AS REQUIRED TO CONNECT ALL QCB BOARDS IN EACH SECURITY ROOM, SEC1, SEC2 AND SEC3. THERE CAN BE THREE (3) DCE BOARDS FOR EACH DCC CONTROLLER.
5. IN EACH SECURITY ROOM SEC1, SEC2 AND SEC3, INSTALL A DCC CONTROLLER. CONNECT THIS TO THE ETHERNET SWITCH WITH PINK CAT-6 CABLE.

**GENERAL INTERCOM NOTES**

1. THE CONTRACTOR SHALL UPGRADE THE EXISTING PAGING SYSTEM. REPLACE THE CORE OF THE SYSTEM AND CONNECT THE INTERCOM DEVICES TO THE NEW CORE.
2. INTEGRATE THE NEW CORE OF THE PAGING SYSTEM TO THE ACCESS CONTROL AND VIDEO SECURITY SYSTEM AND PLC SYSTEM. CONFIGURE SO THAT WHEN AN INTERCOM IS ENGAGED THE CAMERA IS SEEN ON THE CONTROL PC.
3. USE EXISTING CABLES AND RE-TERMINATE TO NEW DEVICES IN THE SEC(X) ROOMS. ALL INTERCOM CABLES FROM THE DOOR INTERCOMS ROUTE TO THE SEC ROOMS, EITHER SEC1, SEC2 OR SEC3.
4. IDENTIFY EACH INTERCOM DEVICE BY NUMBER. UPDATE AS-BUILTS WITH INTERCOM NUMBERS. ASSOCIATED INTERCOMS WITH CAMERAS AND DOORS TO ALLOW TOUCHPANEL USERS TO MOMENTARILY UNLOCK DOORS.

**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
2. CONTRACTOR SHALL COMPLETE A WALK-THRU OF THE SITE DURING CONSTRUCTION AND SHALL VERIFY ALL CONDUITS AND PASS THRU'S ARE INSTALLED FOR CABLES.
3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.

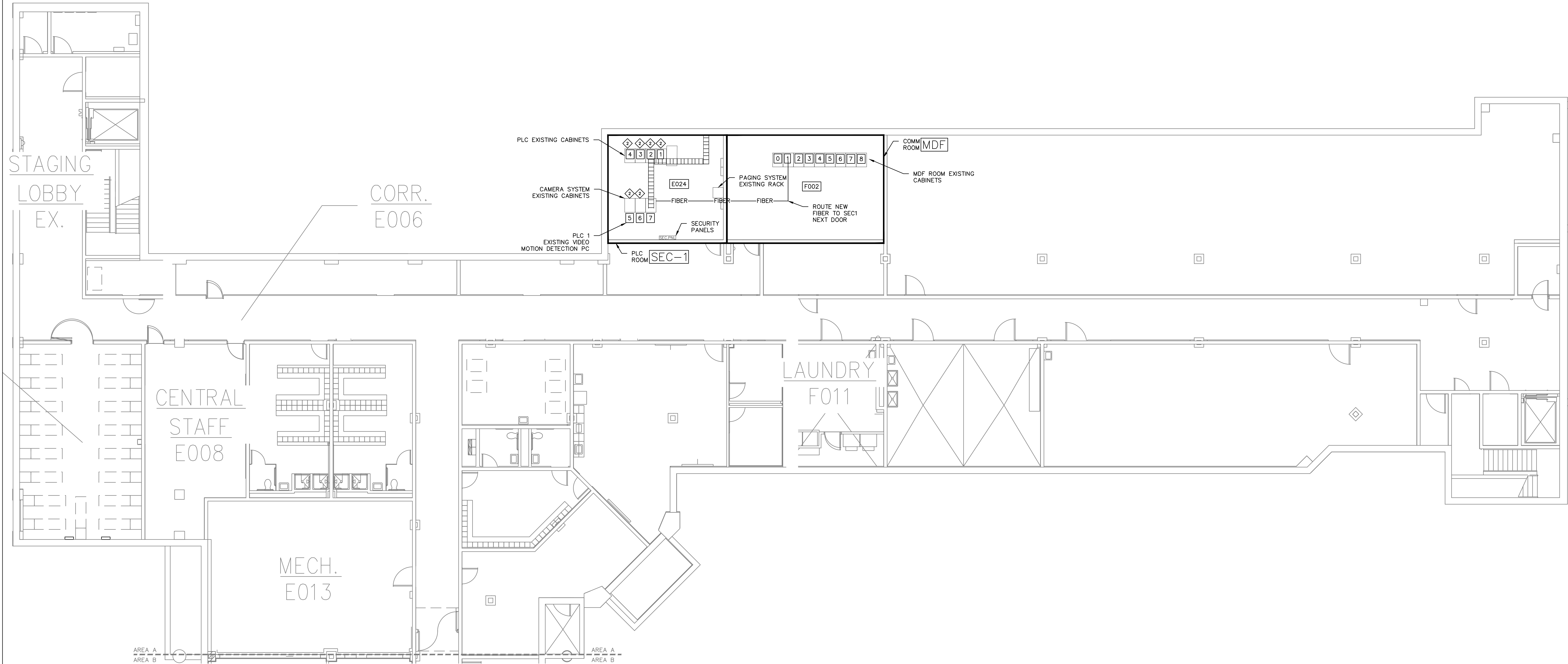
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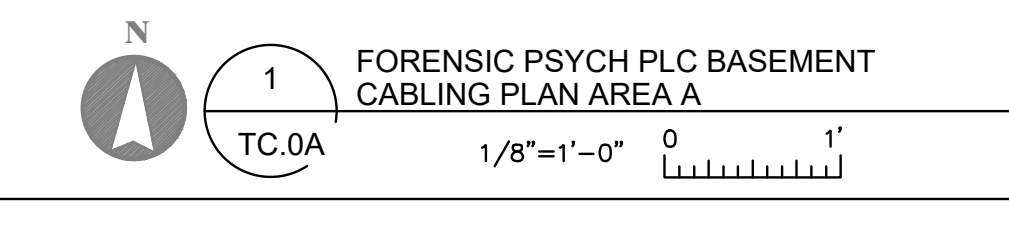


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consultant job no.  
1065\_105

SHEET NUMBER  
**TC.0A**  
FORENSIC PSYCH PLC  
BASEMENT CABLING PLAN  
AREA A



**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
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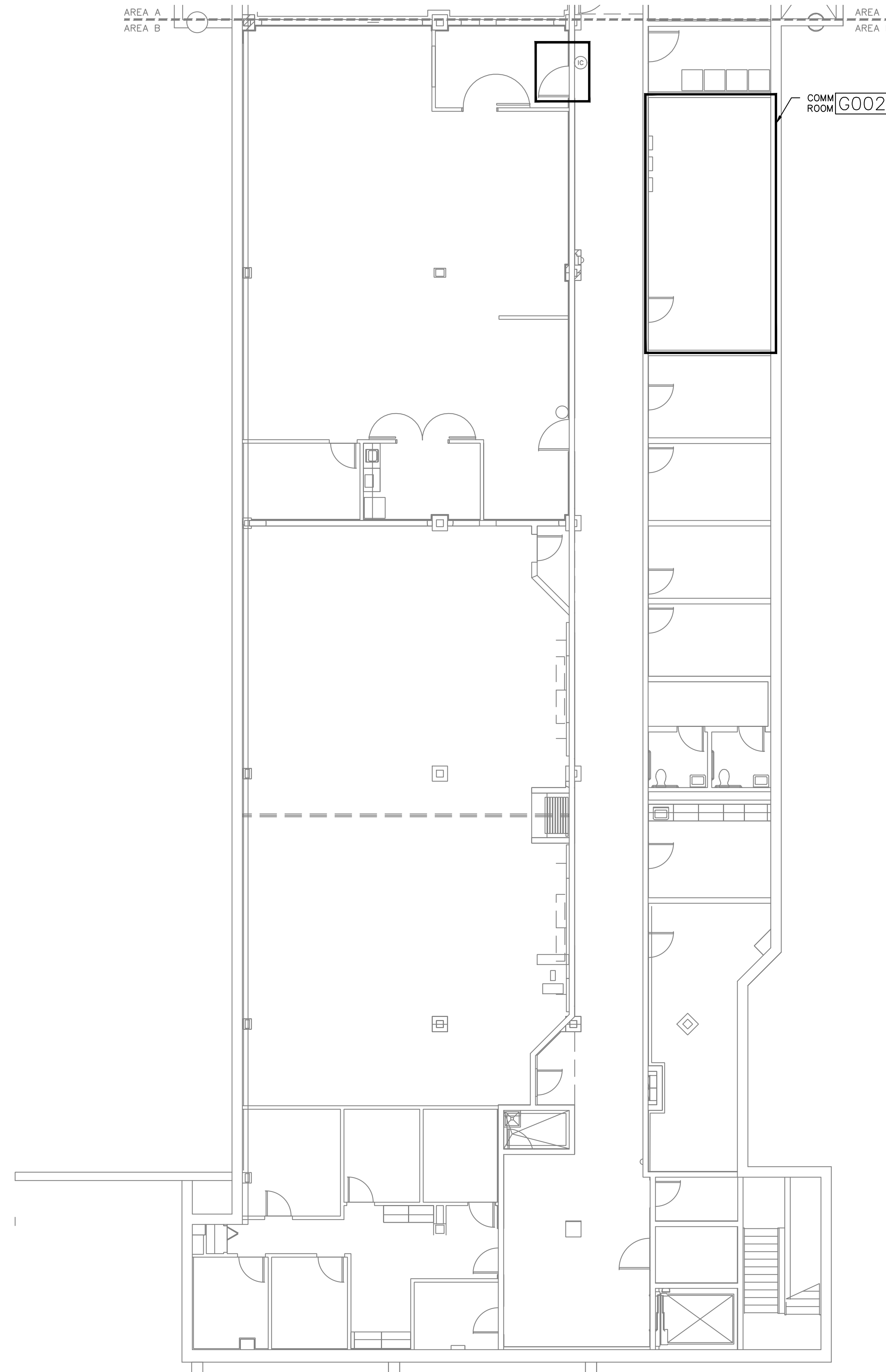


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 consultant job no.  
1065\_105

SHEET NUMBER  
**TC.0B**  
 FORENSIC PSYCH PLC BASEMENT  
 CABLING PLAN AREA B



1  
 FORENSIC PSYCH PLC BASEMENT  
 CABLING PLAN AREA B  
 1/8"=1'-0" 0 1'

**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
2. CONTRACTOR SHALL COMPLETE A WALK-THRU OF THE SITE DURING CONSTRUCTION AND SHALL VERIFY ALL CONDUITS AND PASS THRU'S ARE INSTALLED FOR CABLES.
3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.

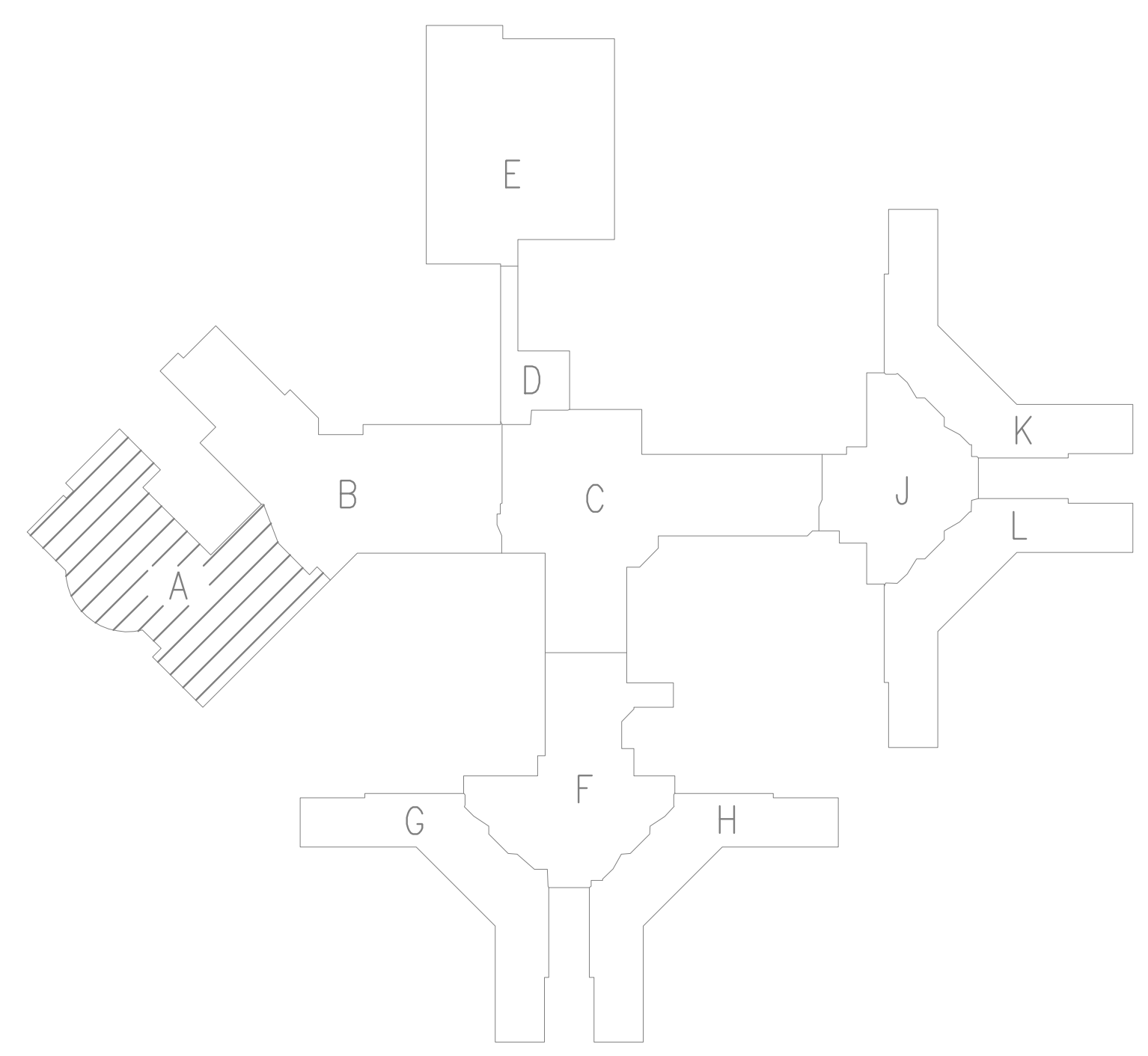
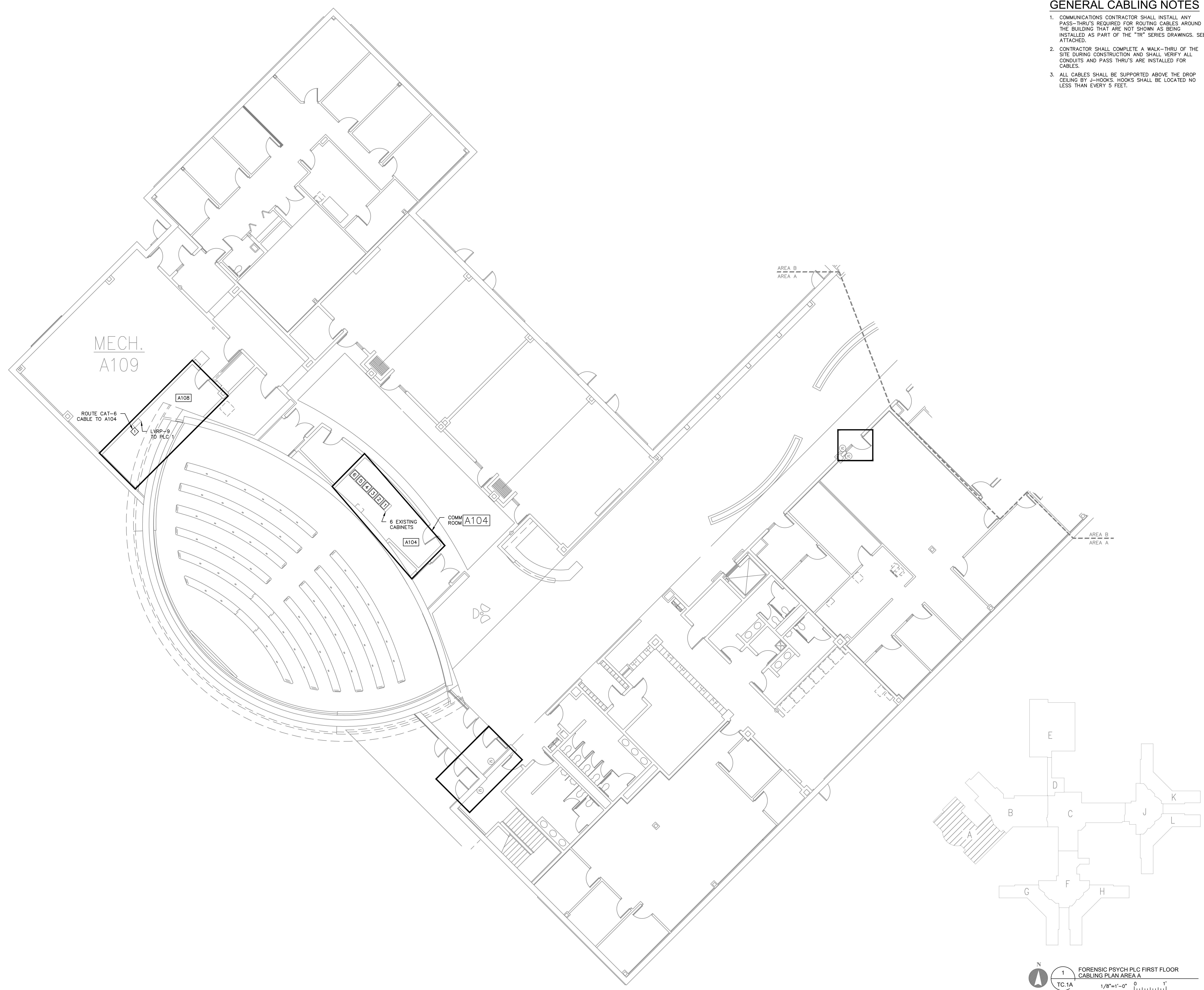


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00800  
contract order no.  
consultant job no.  
1065\_105

SHEET NUMBER  
**TC.1A**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA A



1  
TC.1A  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA A  
1/8"=1'-0"

**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
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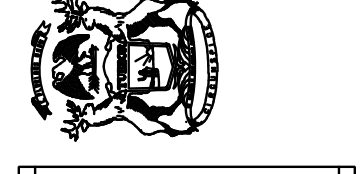
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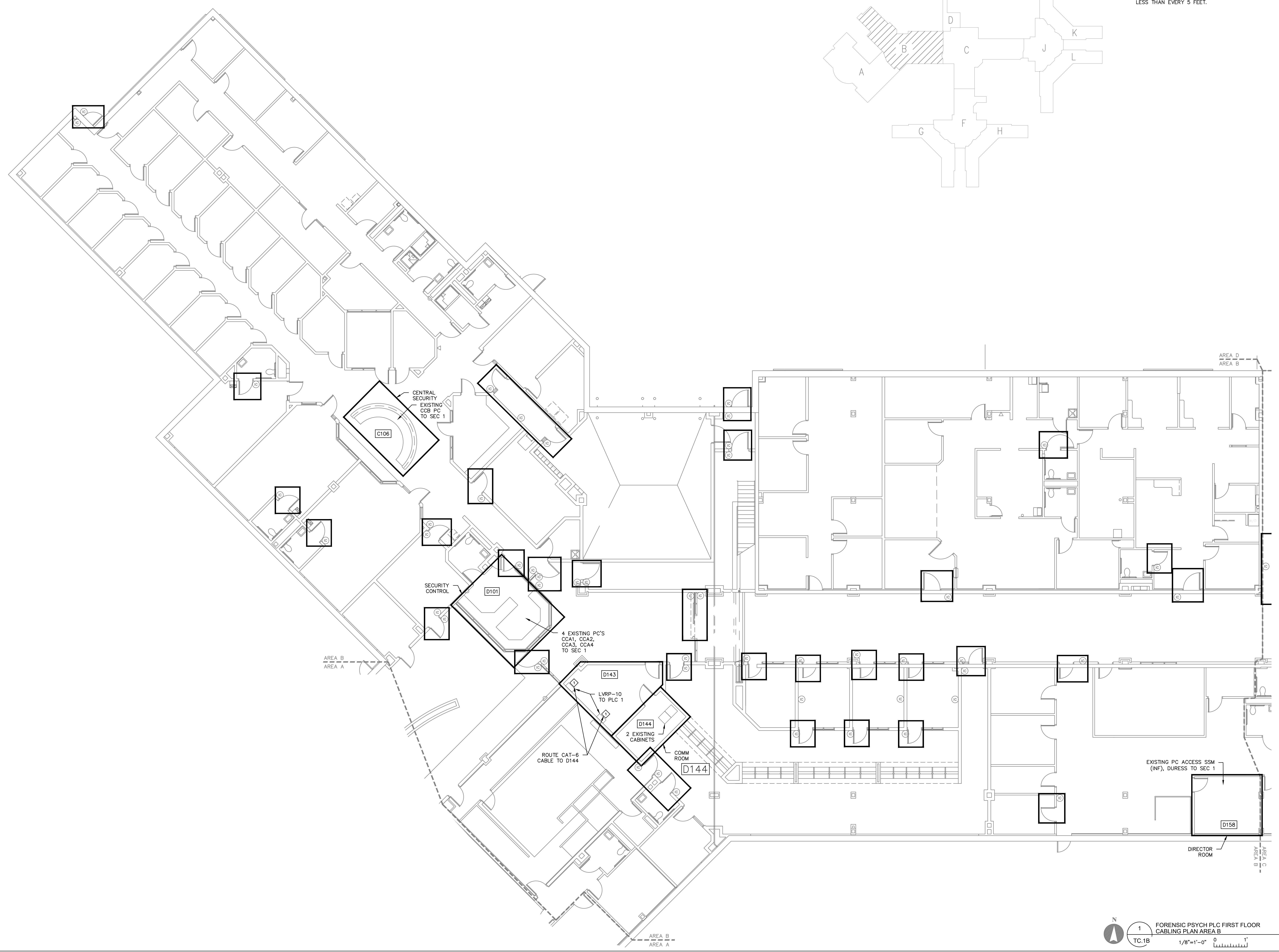
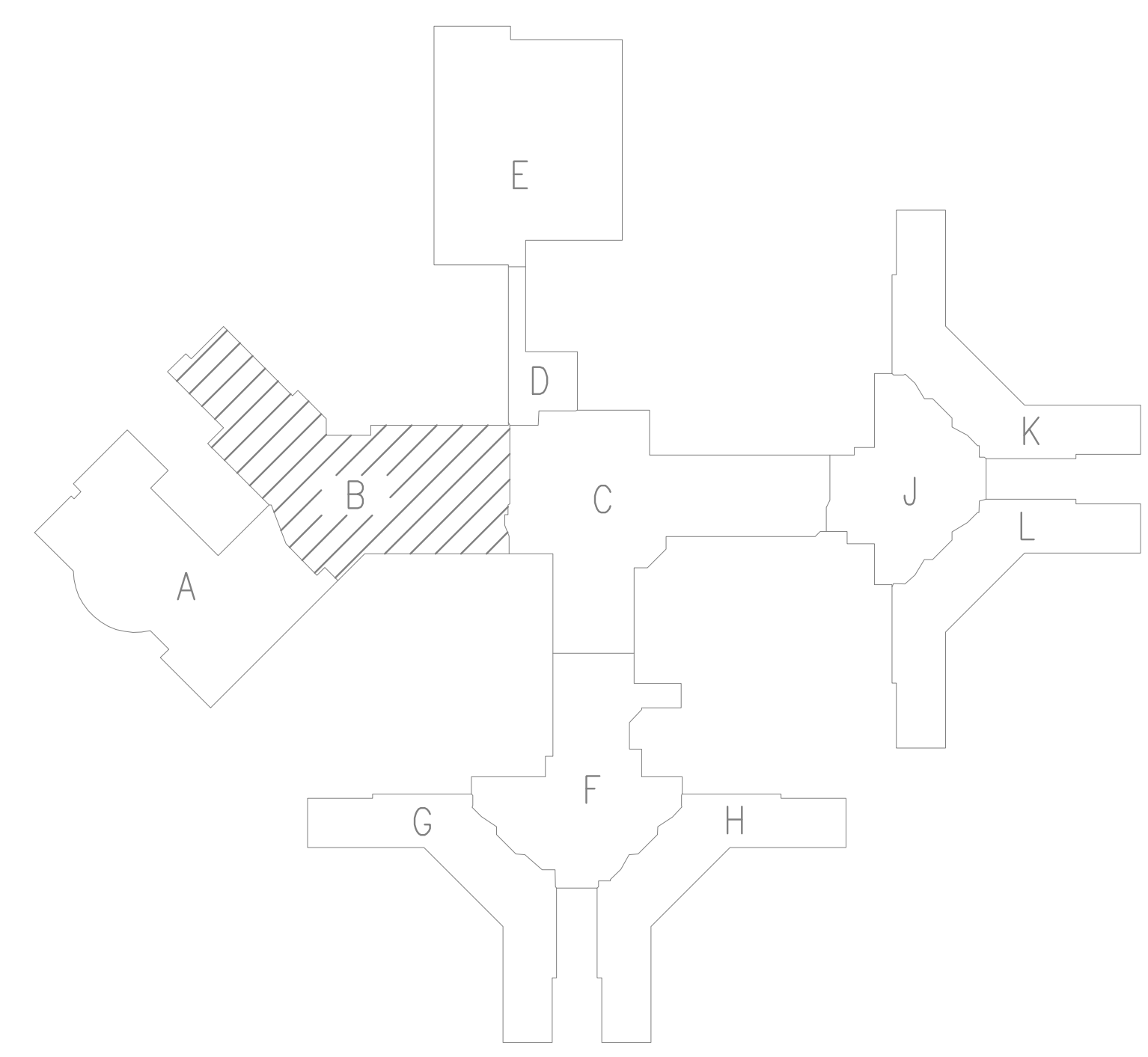
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1065\_105

SHEET NUMBER  
**TC.1B**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA B



1  
TC.1B

FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA B

1/8"=1'-0"

**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
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3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.

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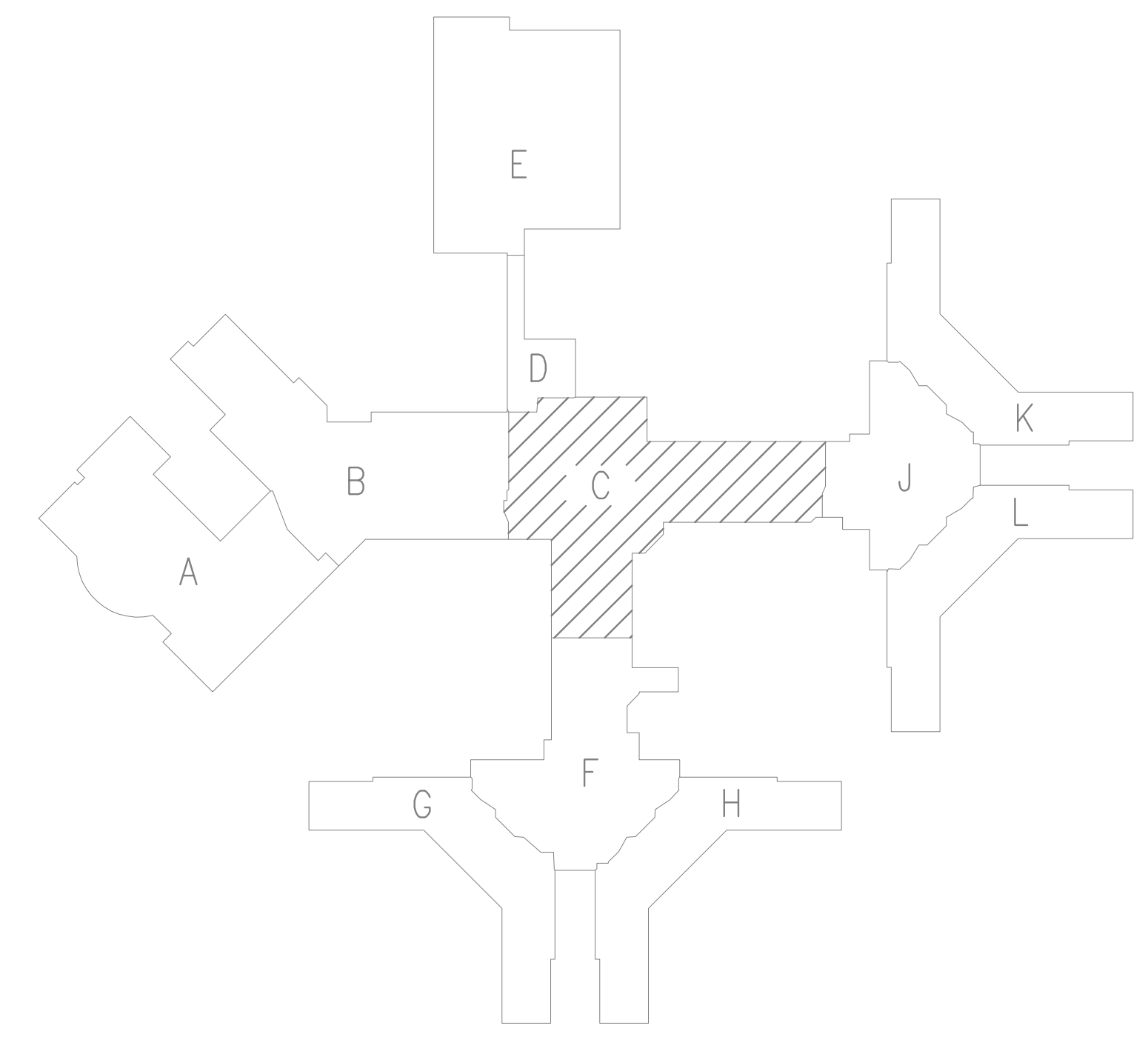
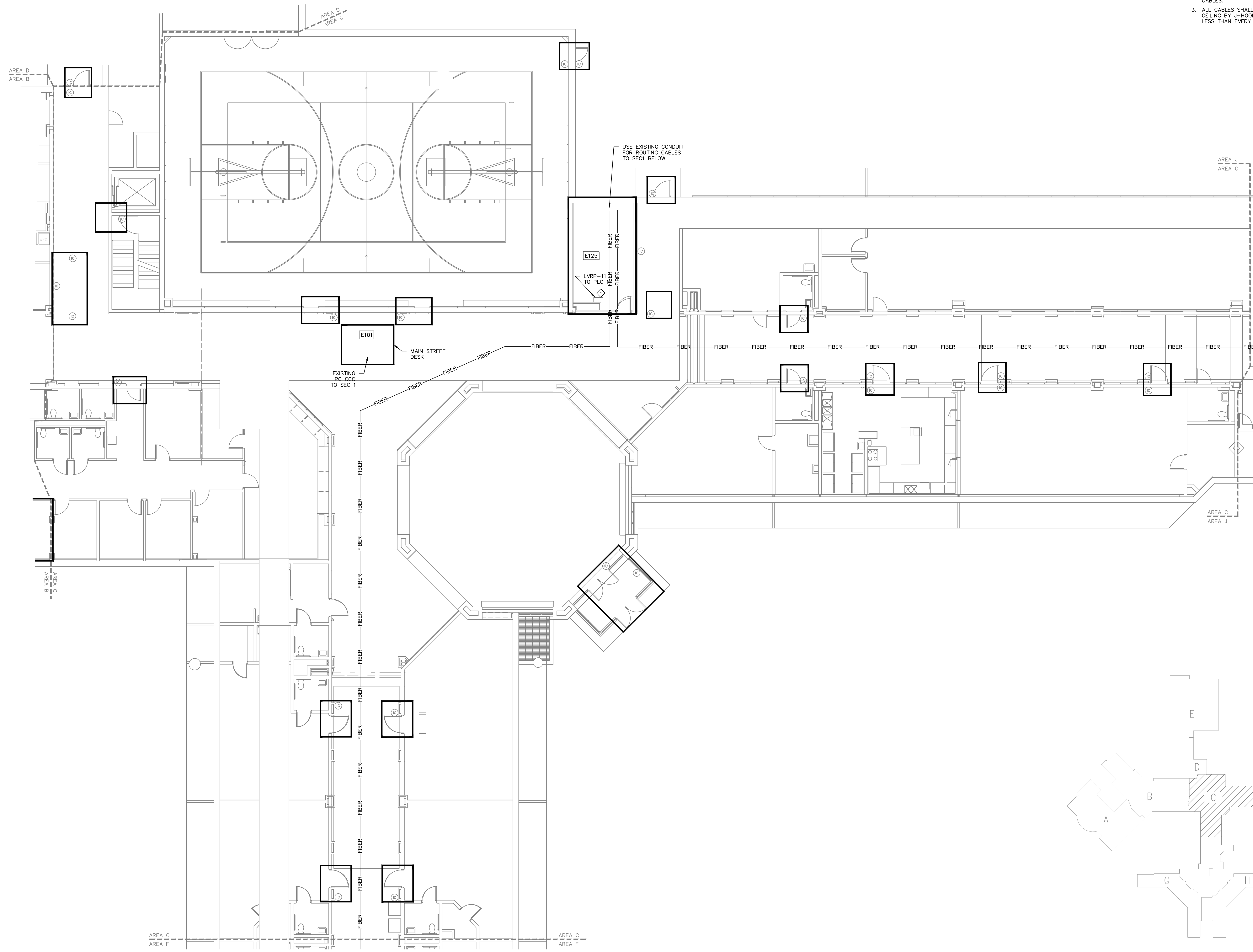
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contract order no.  
consultant job no.  
1065\_105

SHEET NUMBER  
**TC.1C**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA C



1  
TC.1C  
FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA C  
1/8"=1'-0"

**GENERAL CABLING NOTES**

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2. CONTRACTOR SHALL COMPLETE A WALK-THRU OF THE SITE DURING CONSTRUCTION AND SHALL VERIFY ALL CONDUITS AND PASS THRU'S ARE INSTALLED FOR CABLES.
3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.

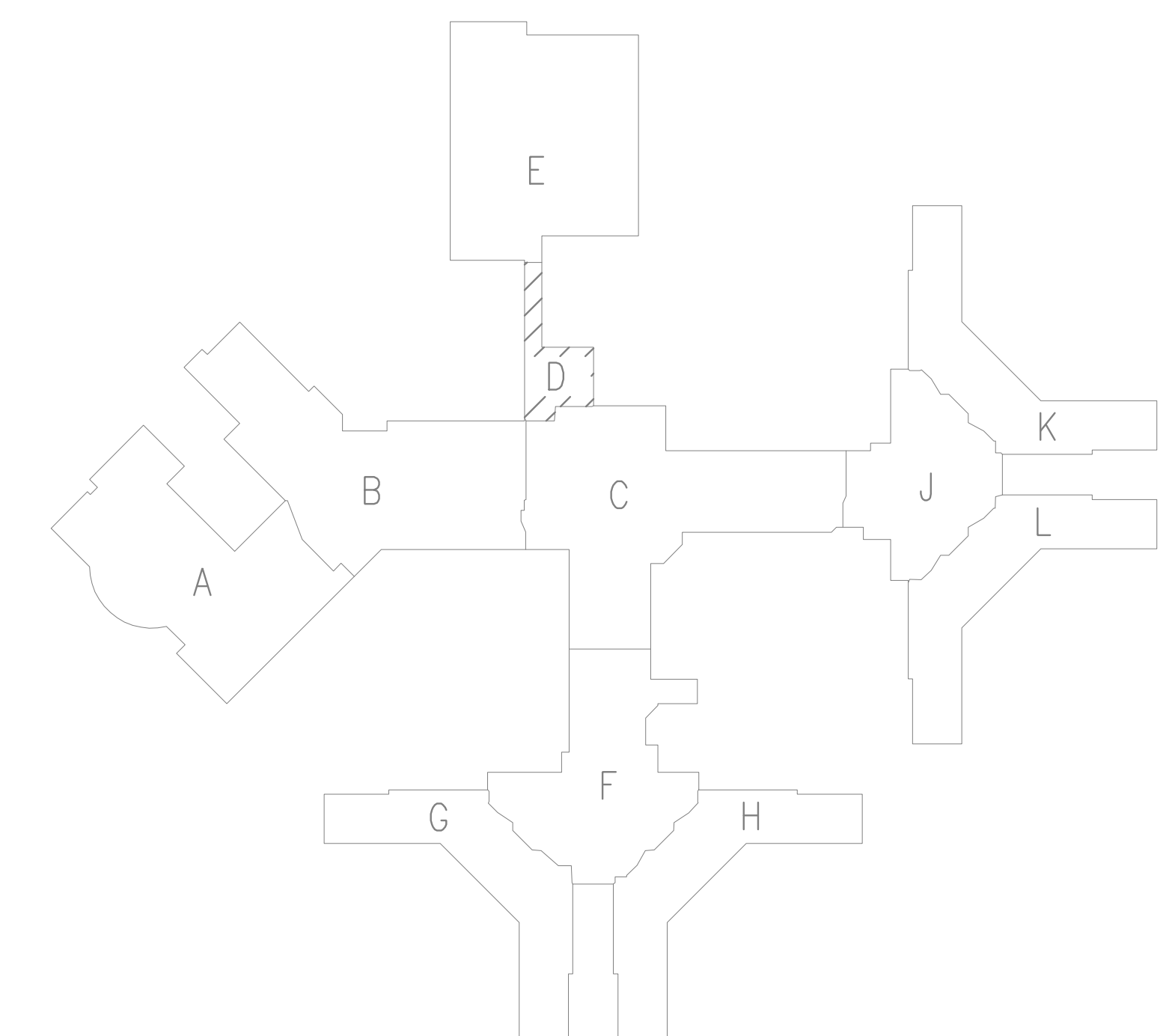
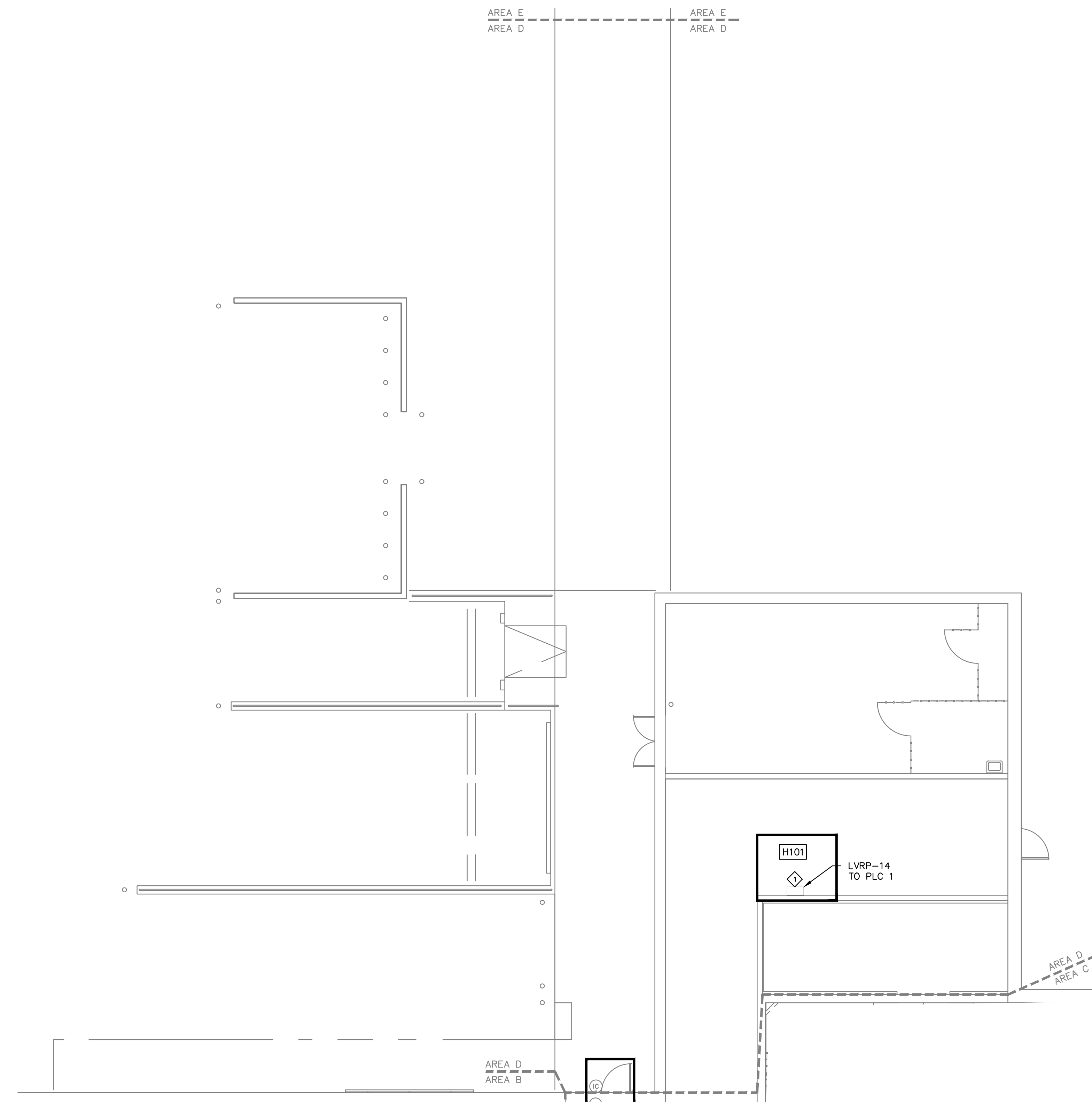
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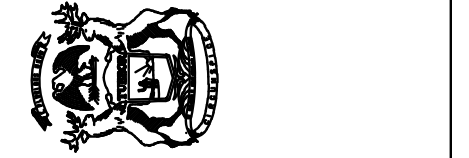
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N  
1  
TC.1D  
FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA D  
1/8"=1'-0" 0 1'

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REPLACE SECURITY SYSTEM  
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FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA D



**GENERAL CABLING NOTES**

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3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.

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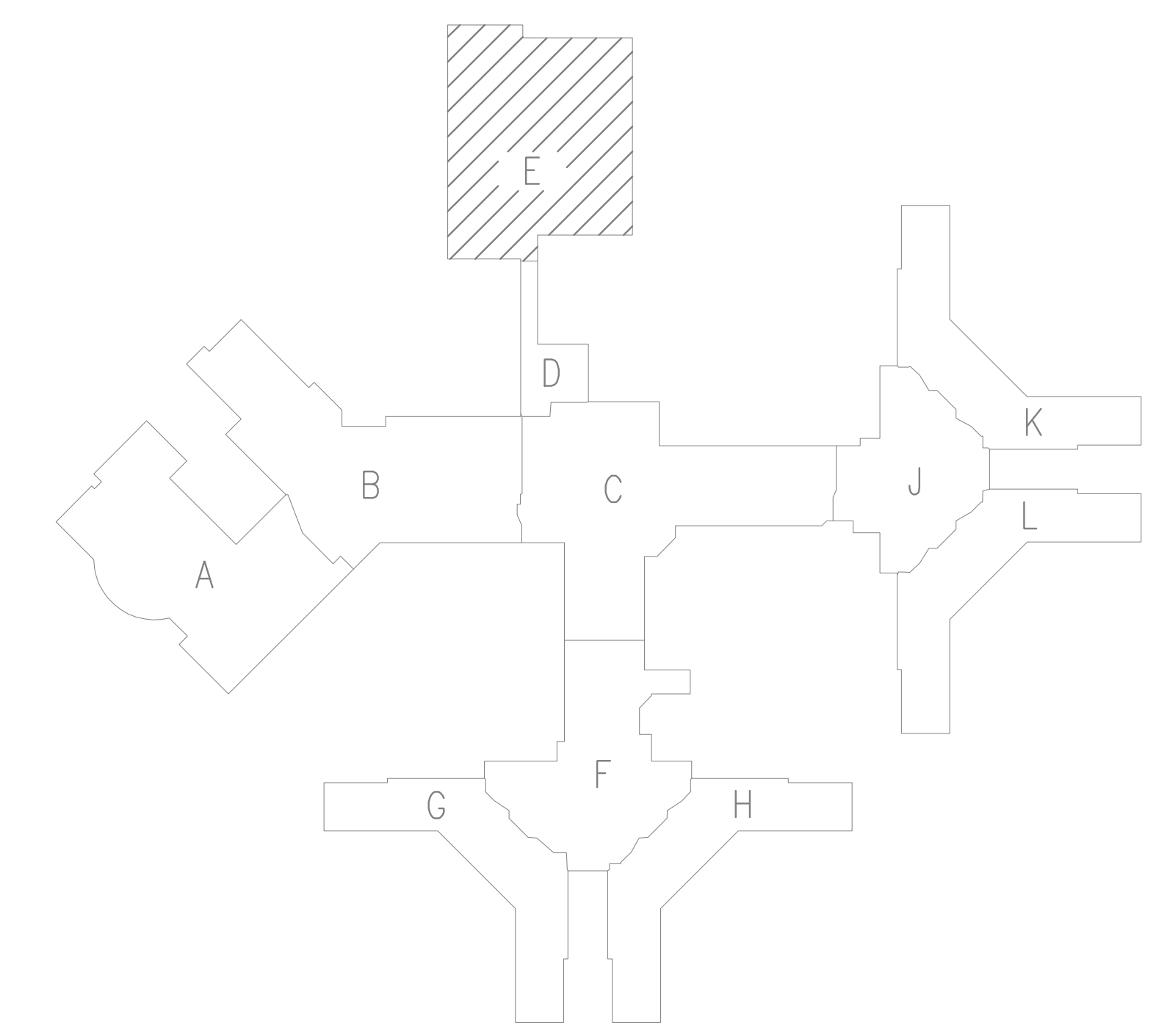
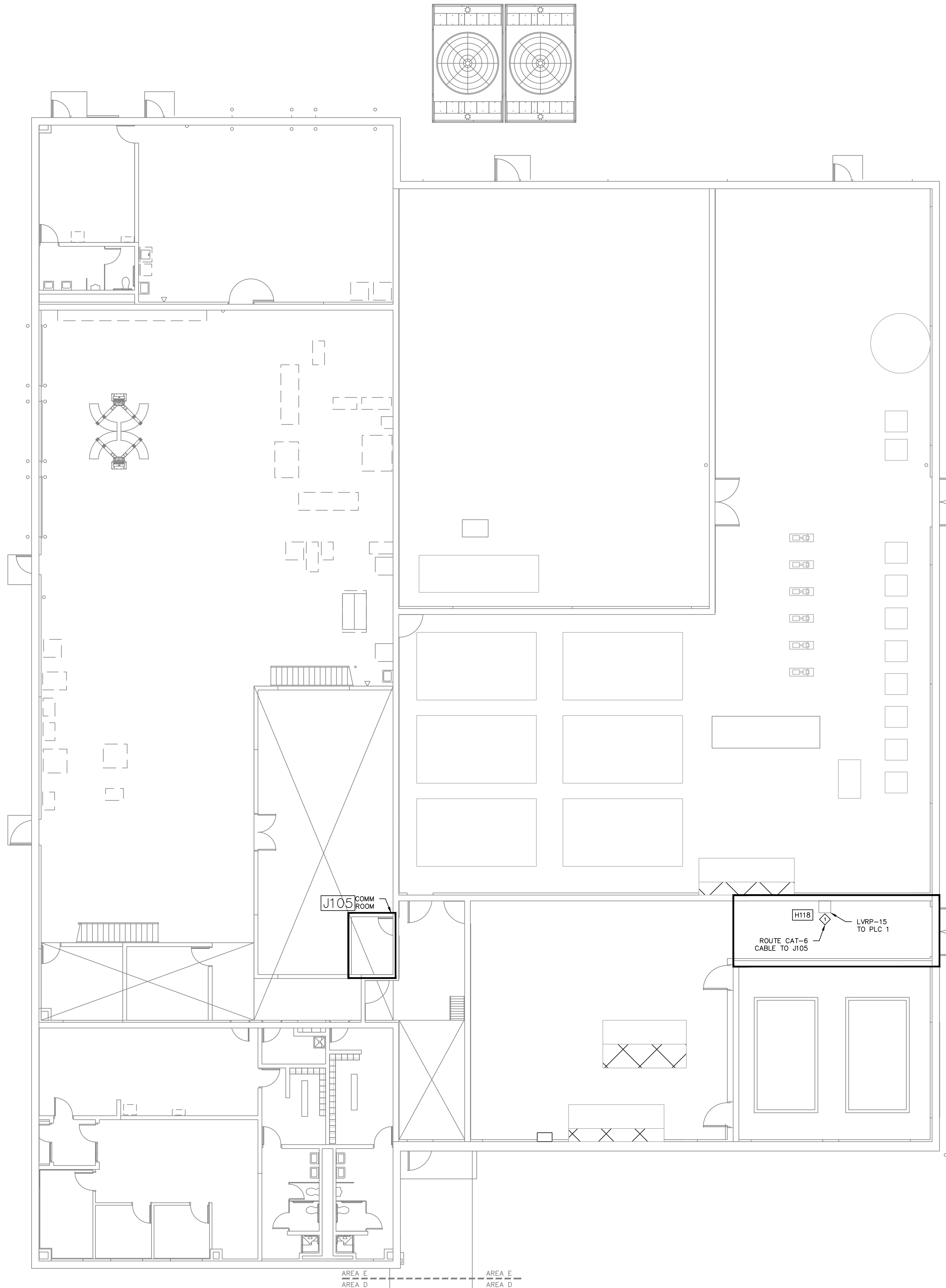


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SALINE, MICHIGAN

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SHEET NUMBER  
**TC.1E**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA E



N  
1  
TC.1E  
FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA E  
1/8"=1'-0" 0 1'

AREA E  
AREA D

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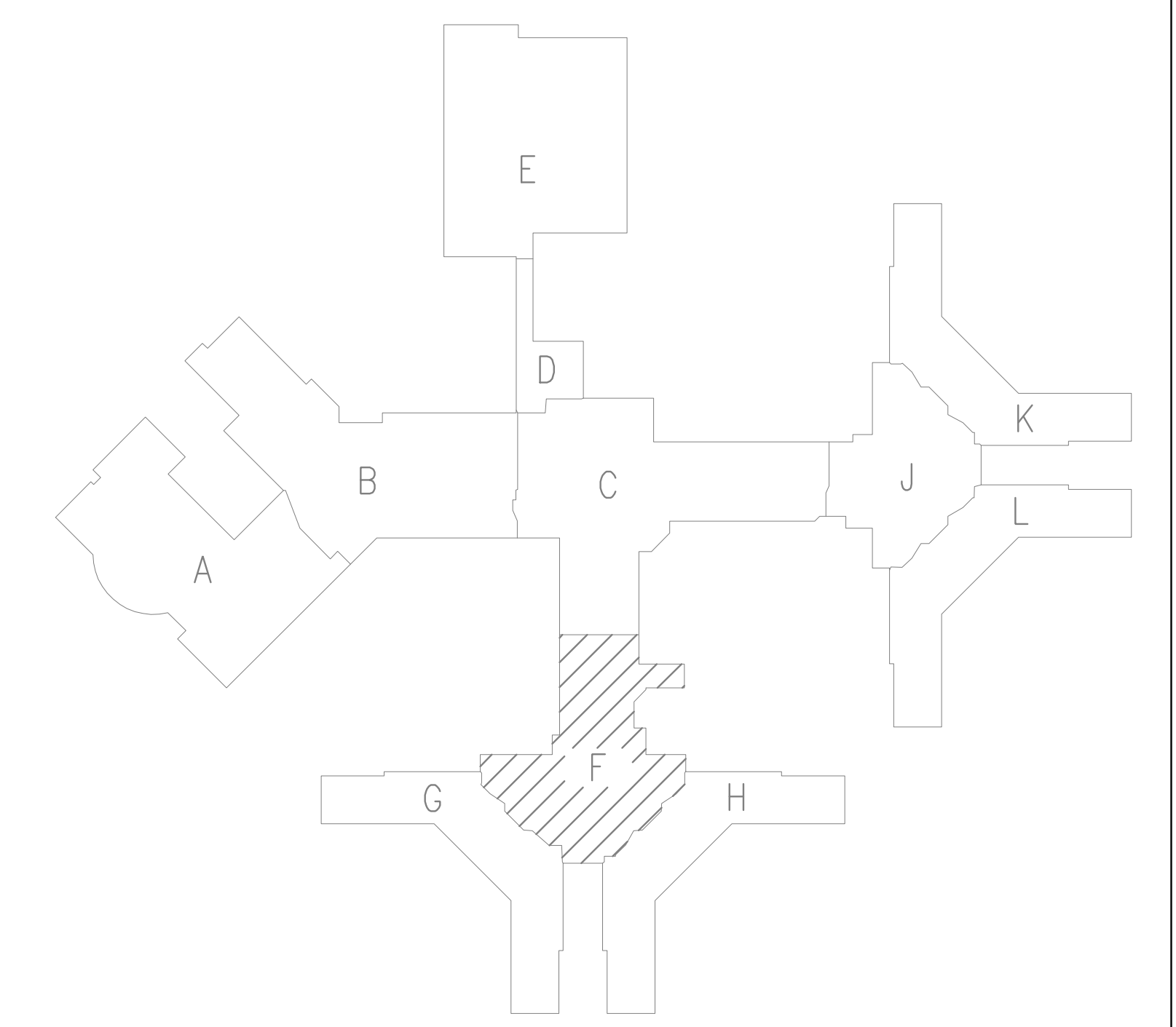
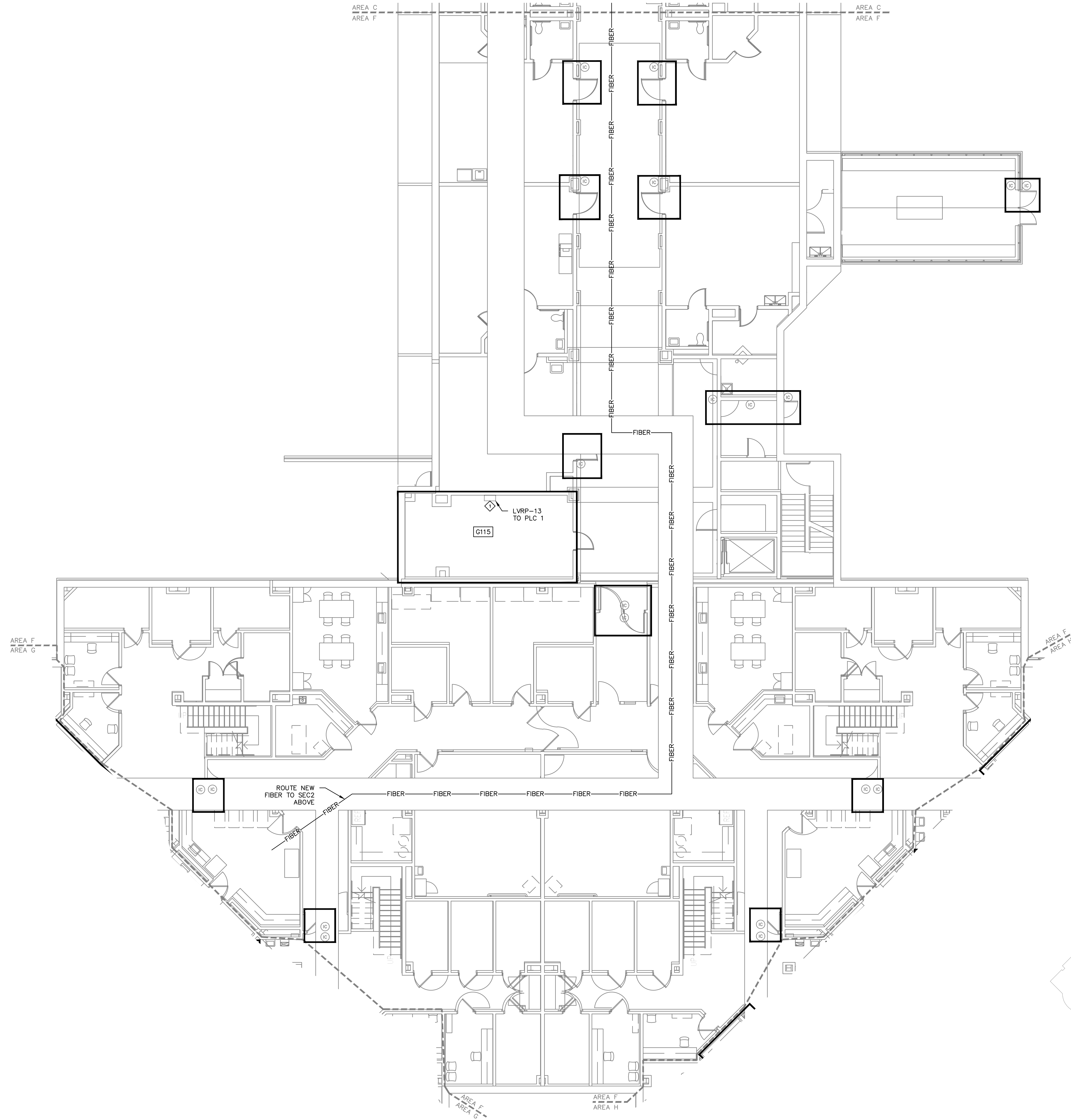
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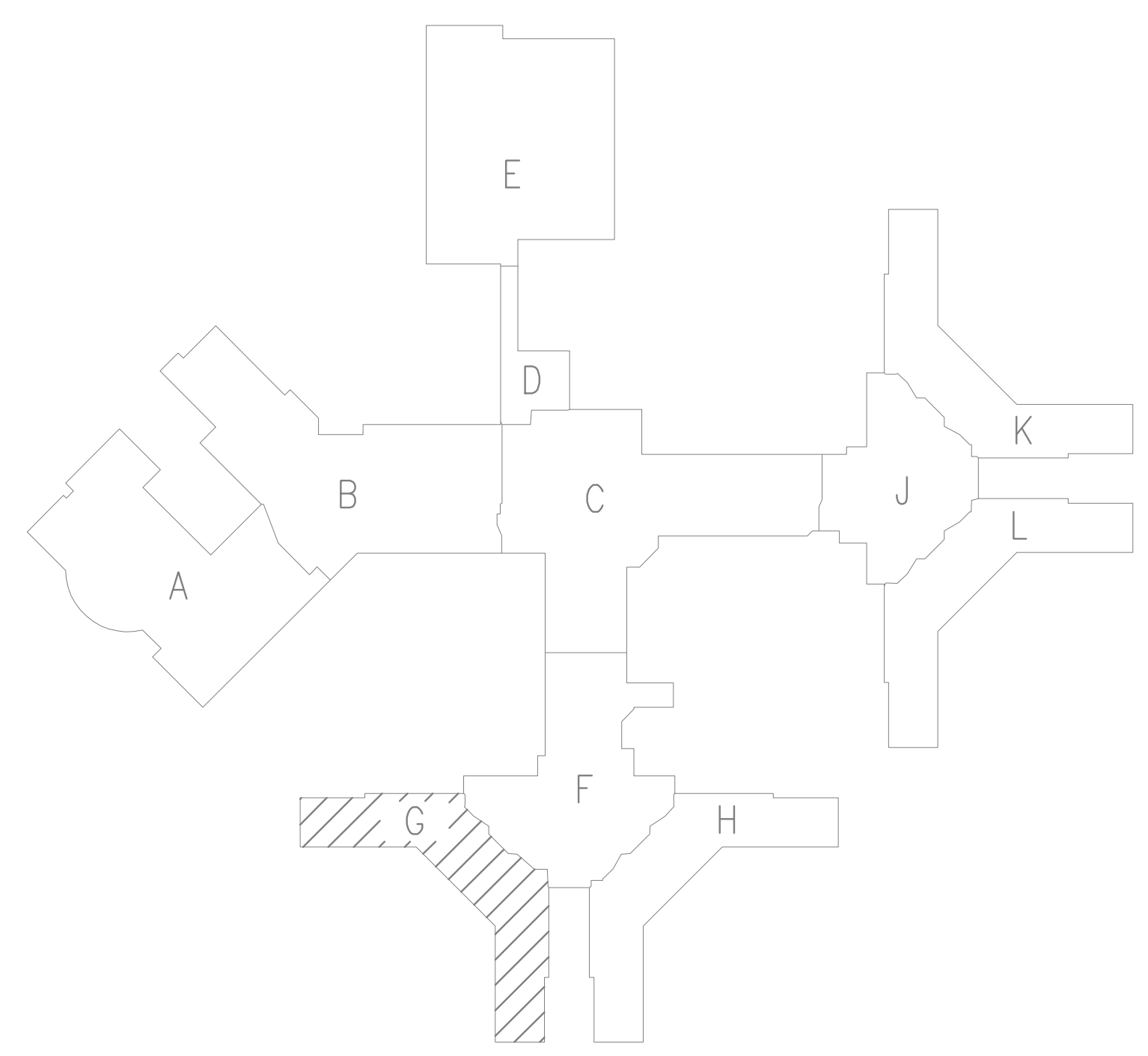
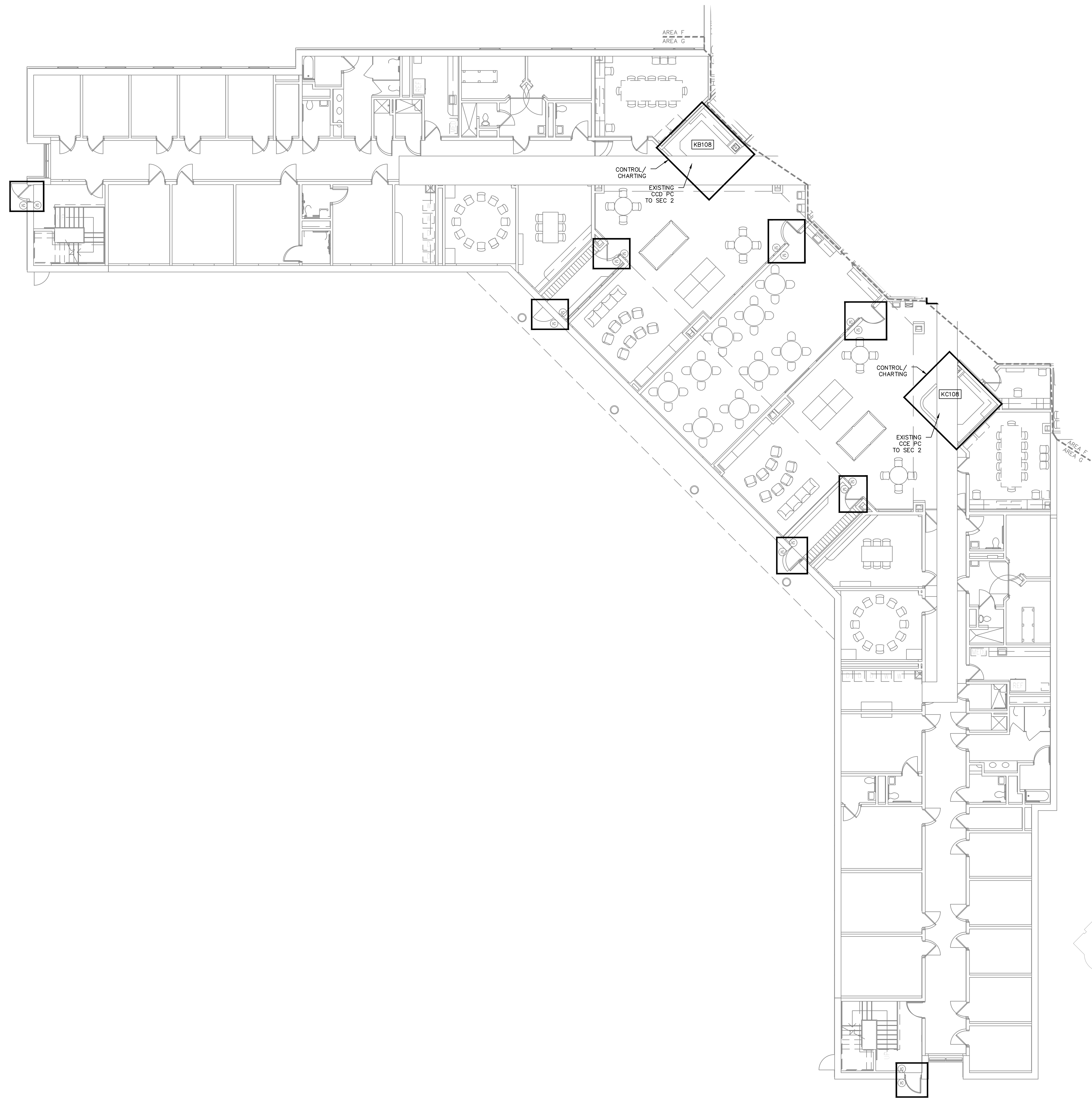
N  
1  
TC.1F  
FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA F  
1/8"=1'-0" 0 1'

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TC.1F  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA F



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SHEET NUMBER  
 1  
 FORENSIC PSYCH PLC FIRST FLOOR  
 CABLING PLAN AREA G  
 1/8"=1'-0" 0 1'

TC.1G  
 FORENSIC PSYCH PLC  
 FIRST FLOOR CABLING PLAN  
 AREA G

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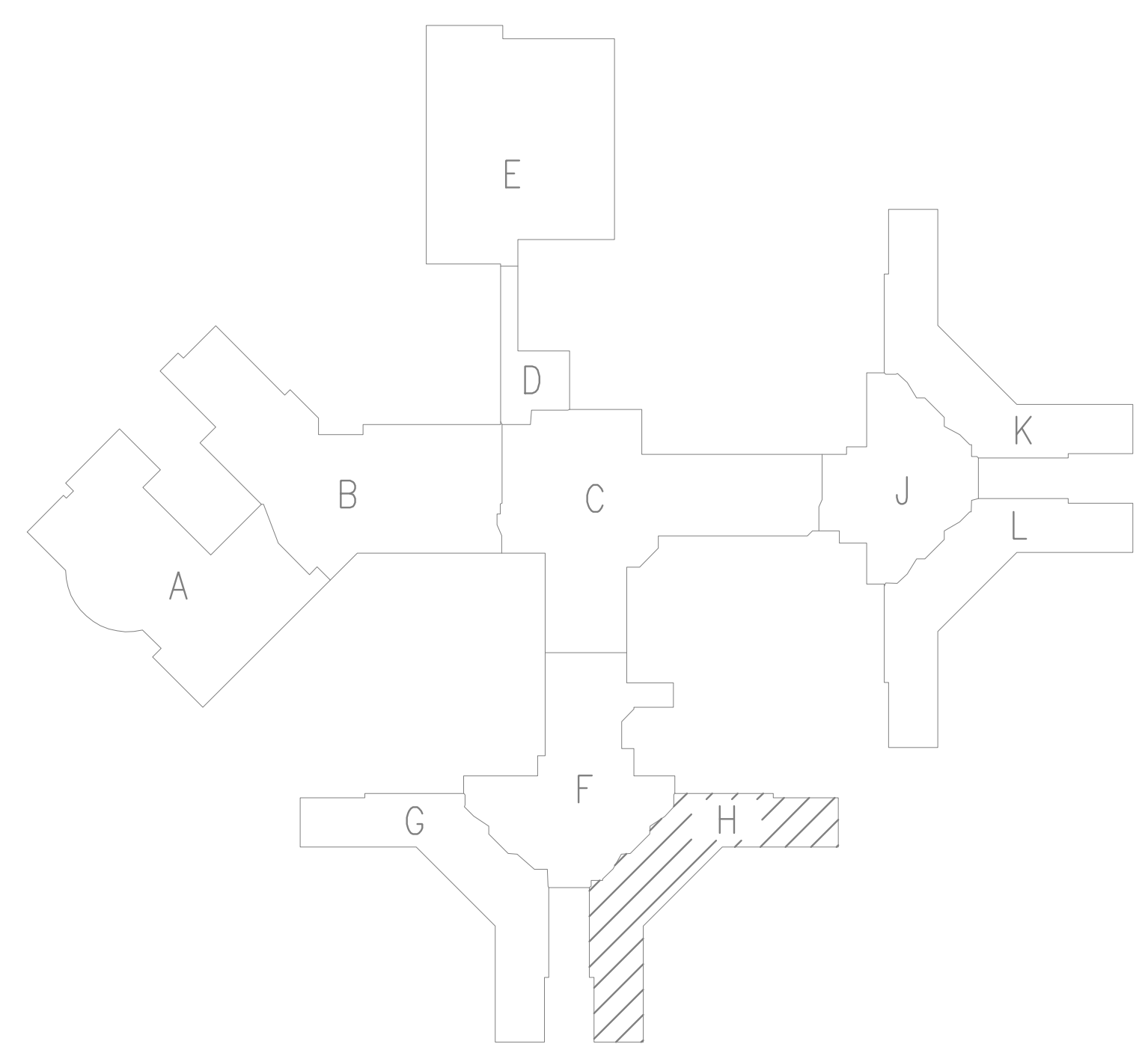
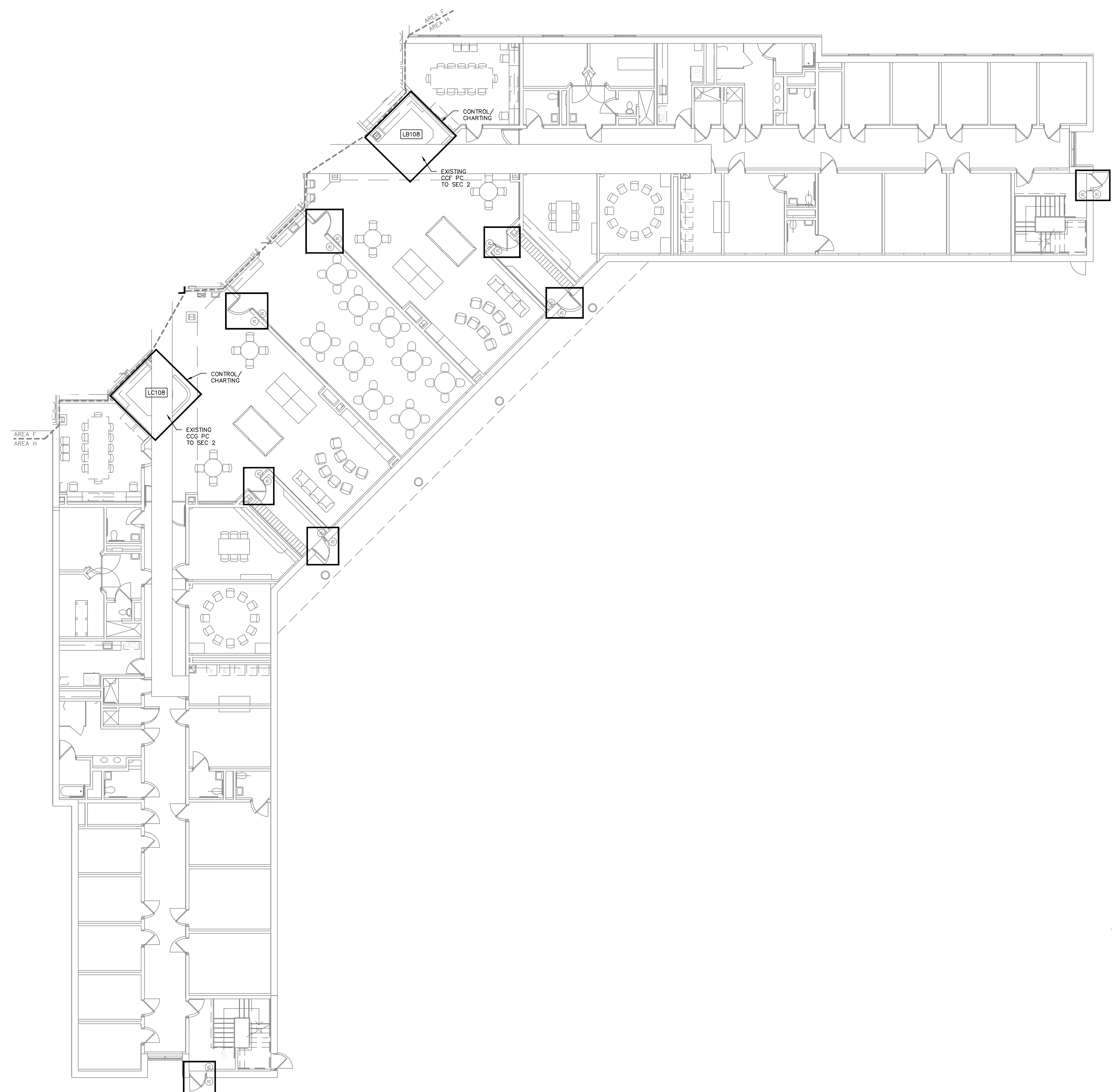


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SHEET NUMBER  
**TC.1H**  
 FORENSIC PSYCH PLC  
 FIRST FLOOR CABLING PLAN  
 AREA H



1  
 TC.1H  
 1/8"=1'-0"  
 FORENSIC PSYCH PLC FIRST FLOOR CABLING PLAN AREA H

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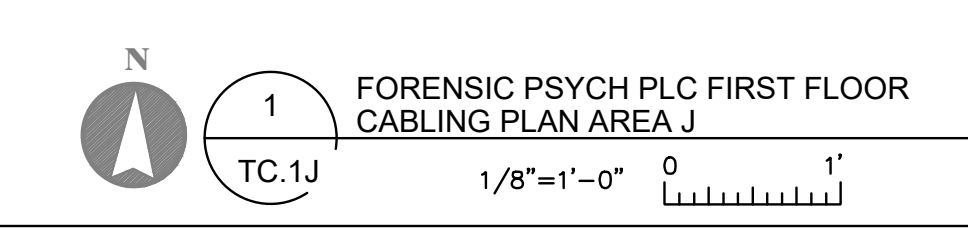
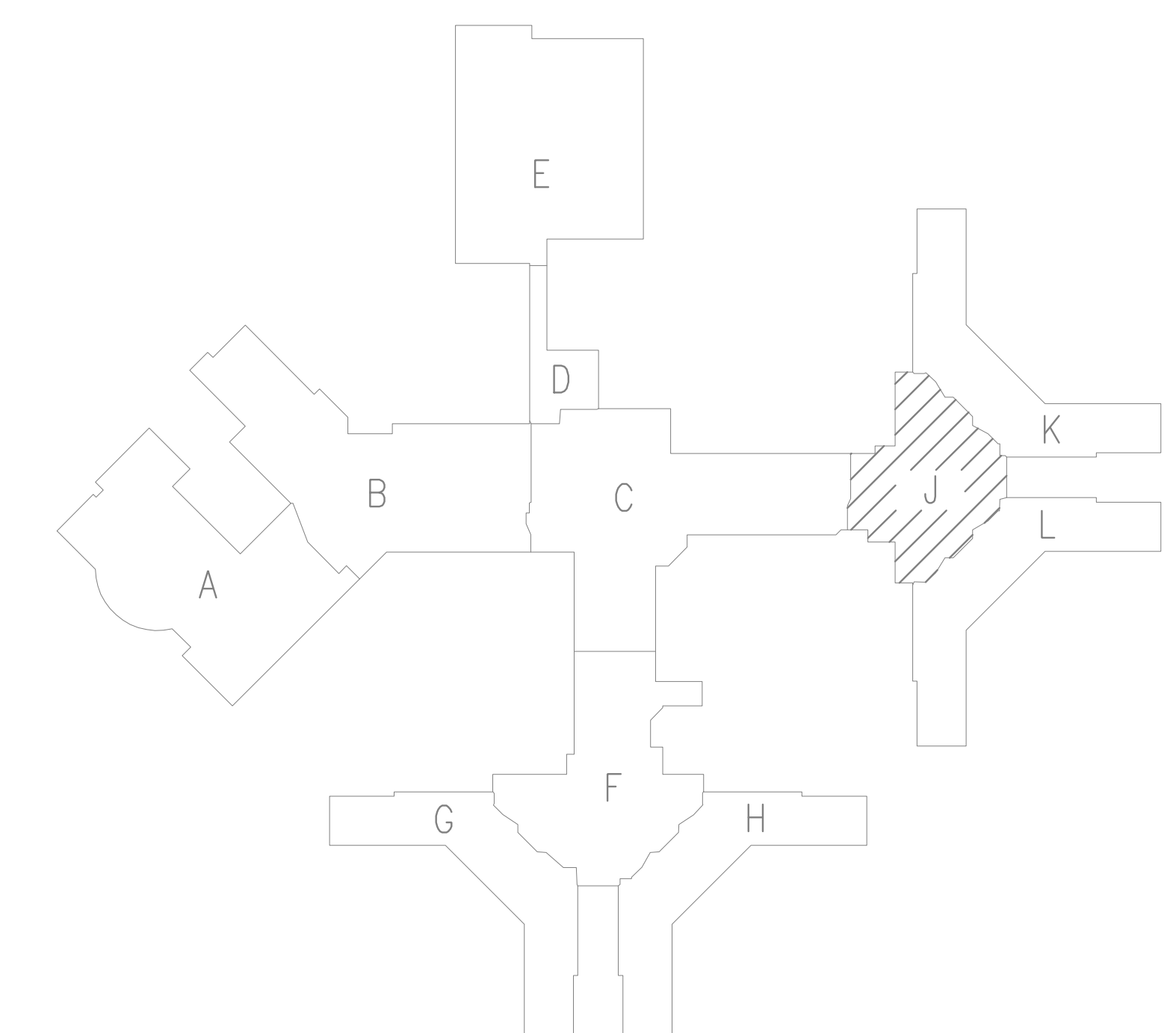
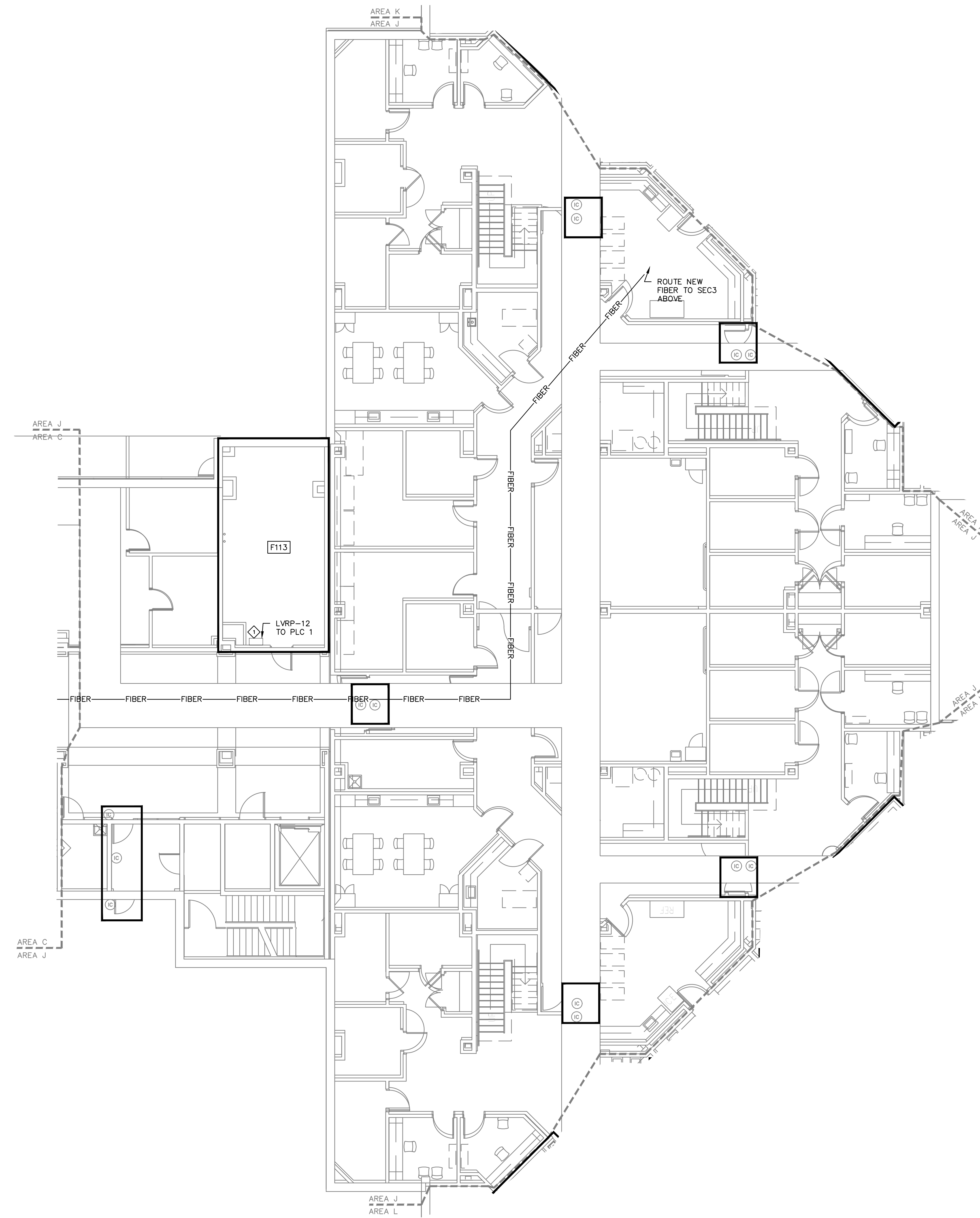
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1  
FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA J  
TC.1J  
1/8"=1'-0"

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FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA J

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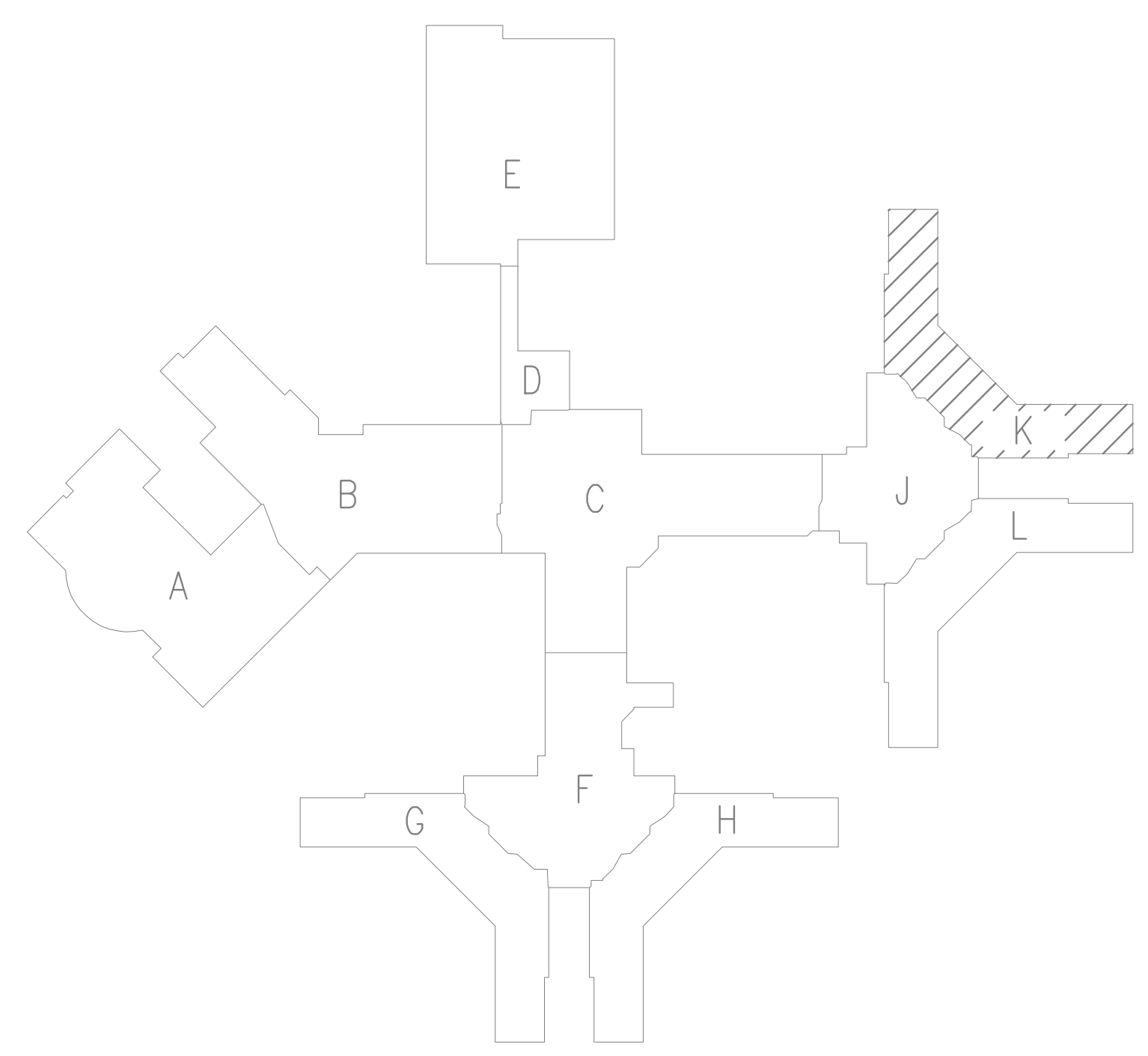
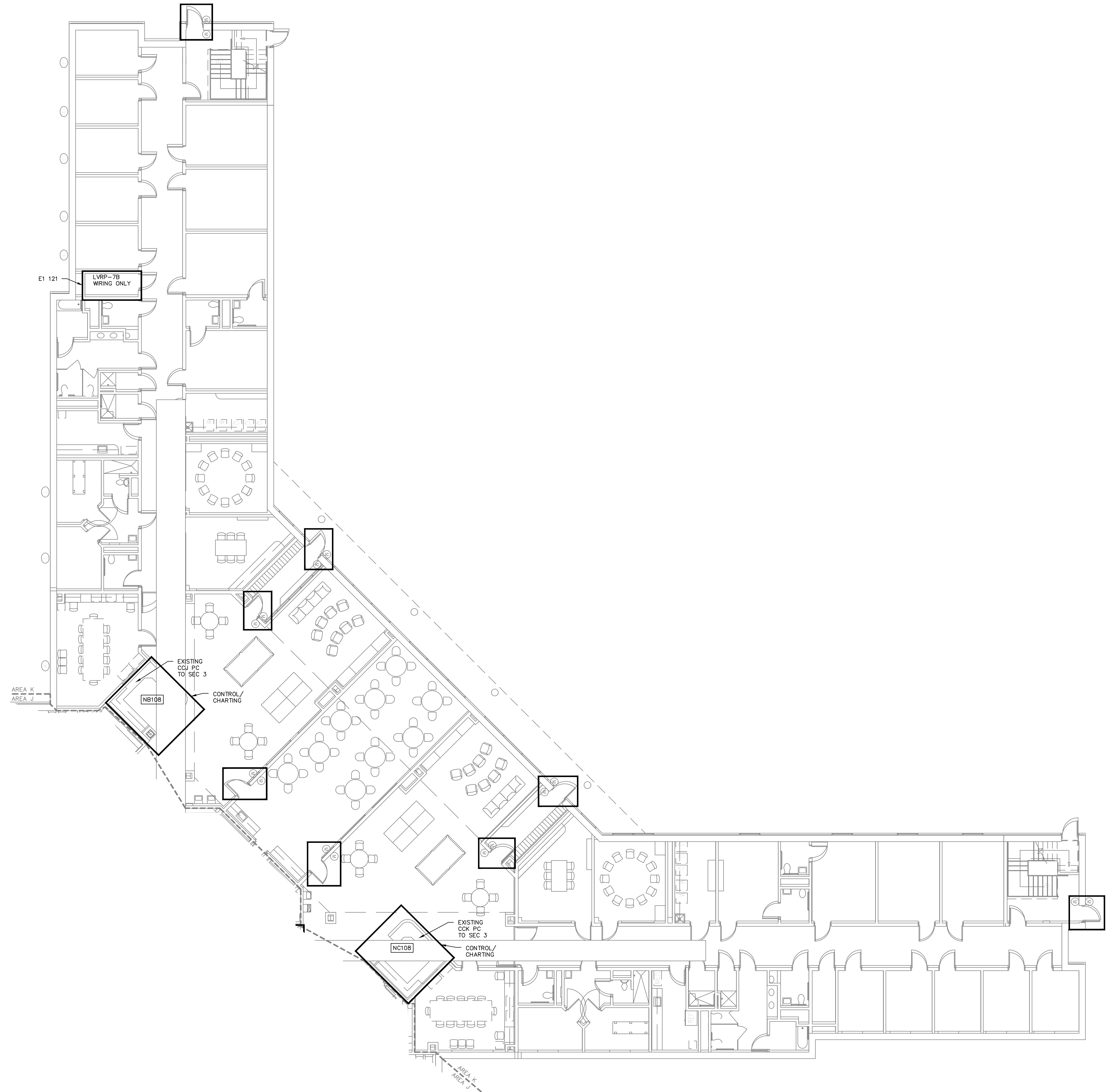
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N

1  
TC.1K

FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA K

1/8"=1'-0"

0 1'

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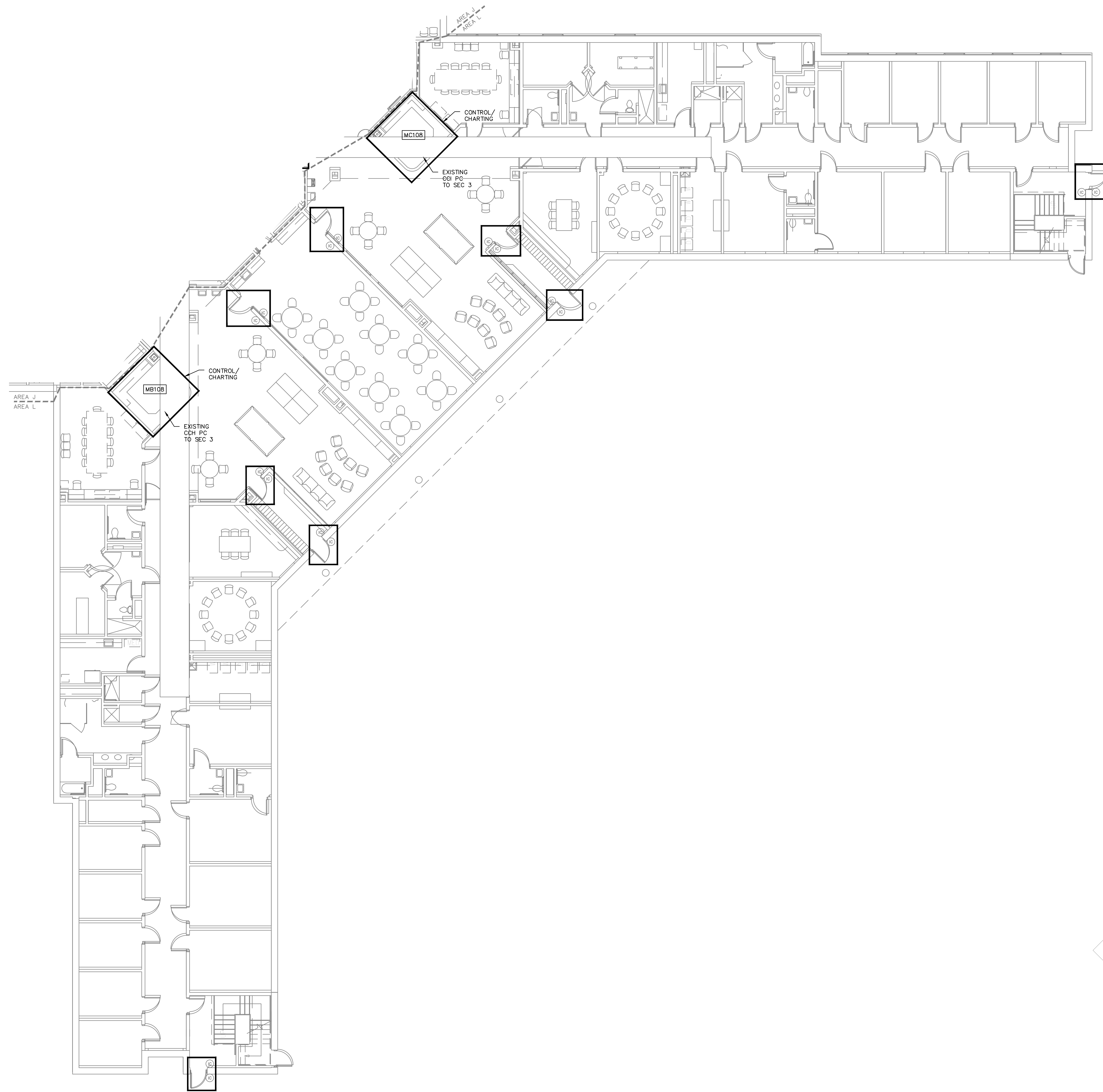
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SHEET NUMBER  
**TC.1K**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA K



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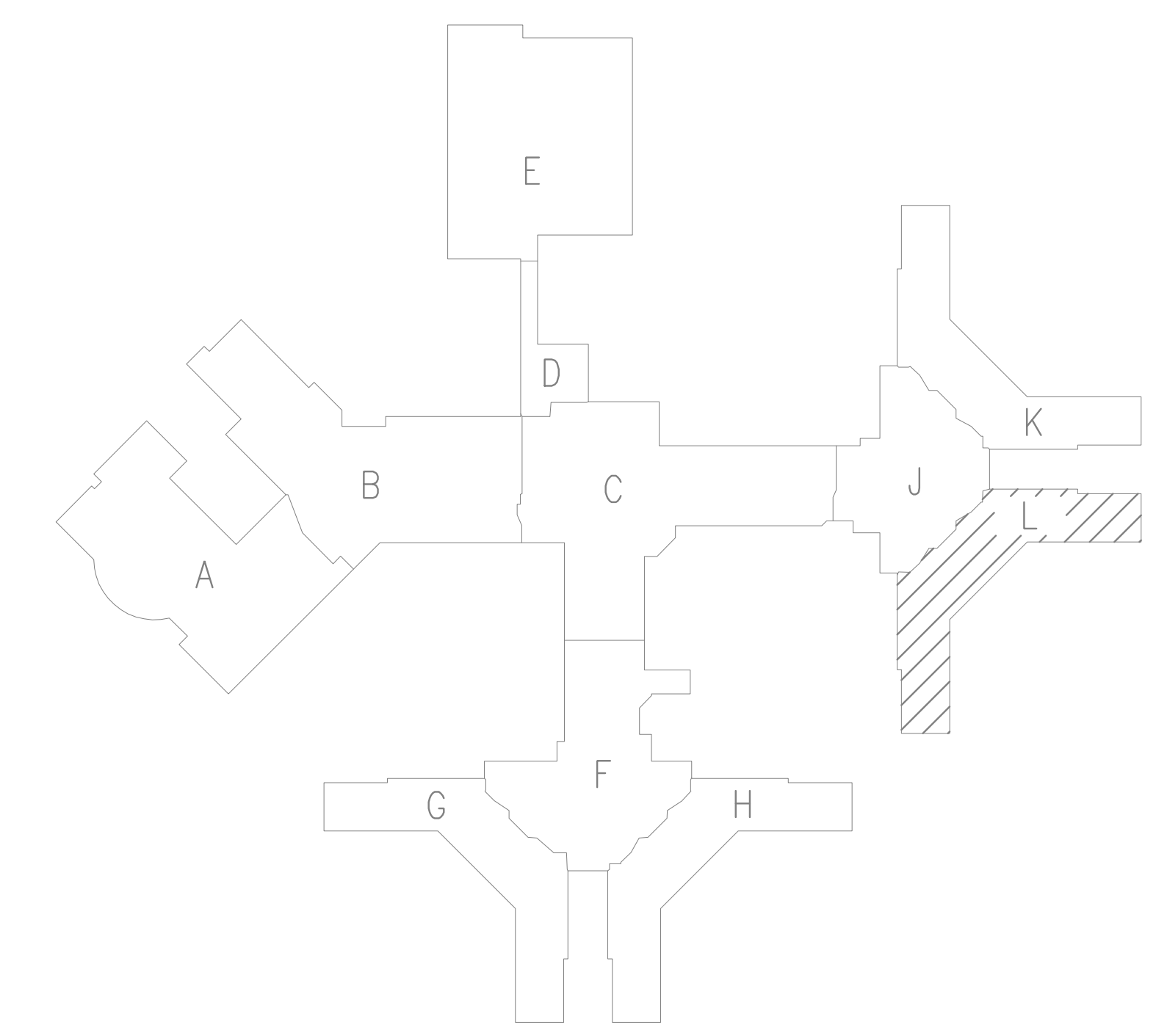
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SHEET NUMBER  
**TC.1L**  
FORENSIC PSYCH PLC  
FIRST FLOOR CABLING PLAN  
AREA L

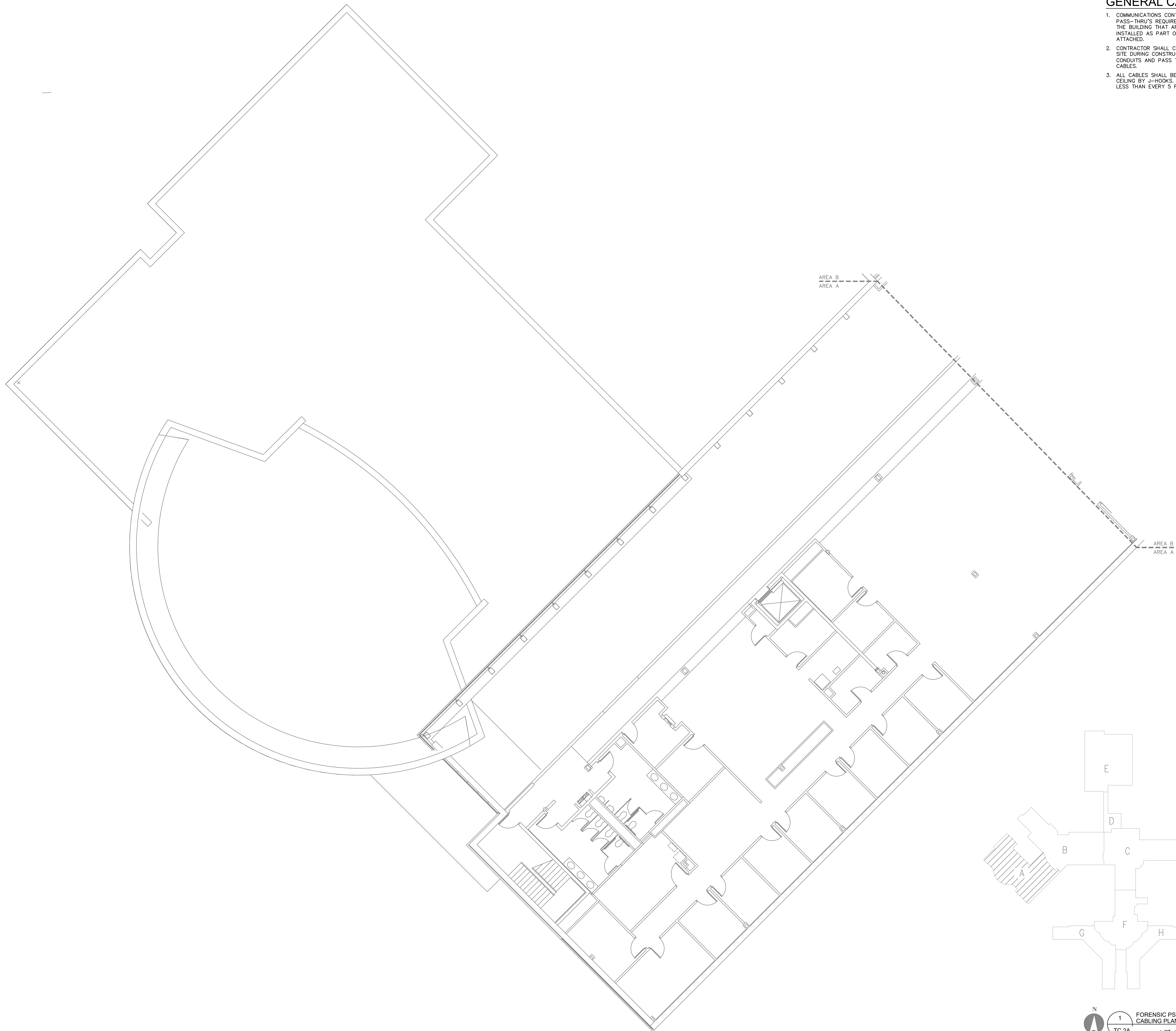


N

1  
TC.1L

FORENSIC PSYCH PLC FIRST FLOOR  
CABLING PLAN AREA L

1/8"=1'-0" 0 1'



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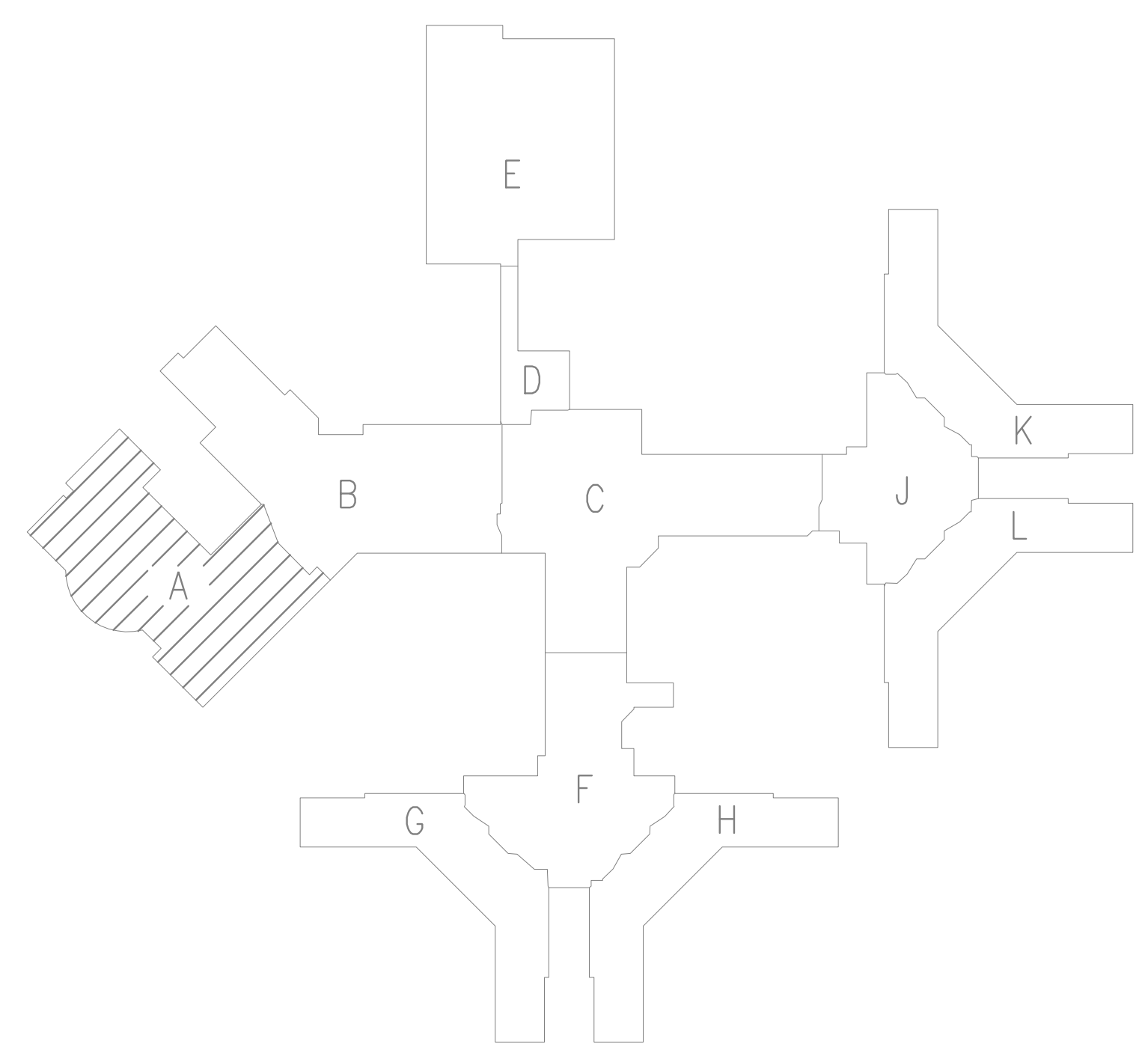
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SHEET NUMBER  
**TC.2A**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA A



1 FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA A  
TC.2A 1/8"=1'-0" 0 1'



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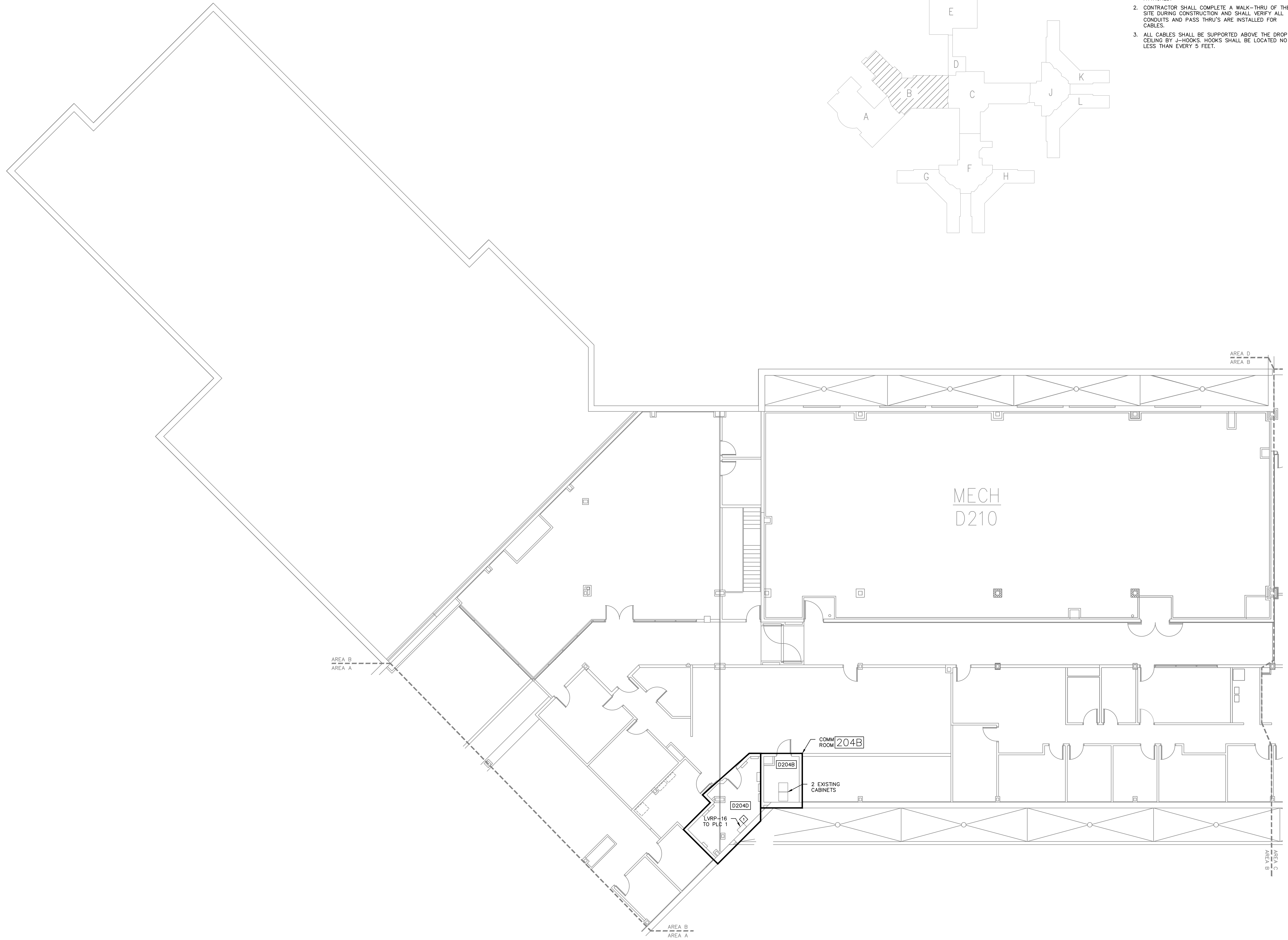
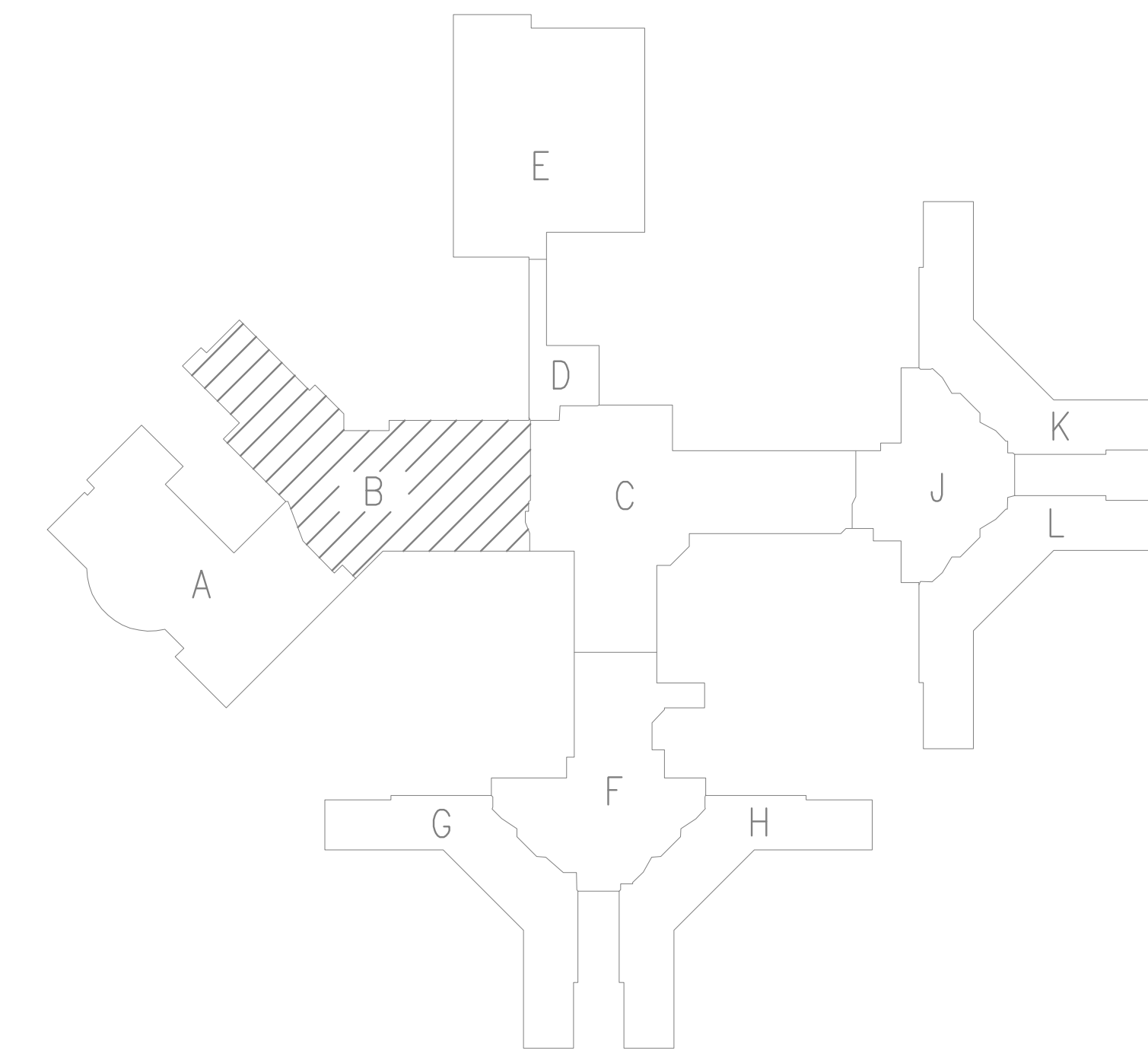
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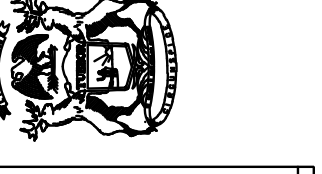
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SHEET NUMBER  
**TC.2B**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA B

1  
FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA B

1/8"=1'-0"

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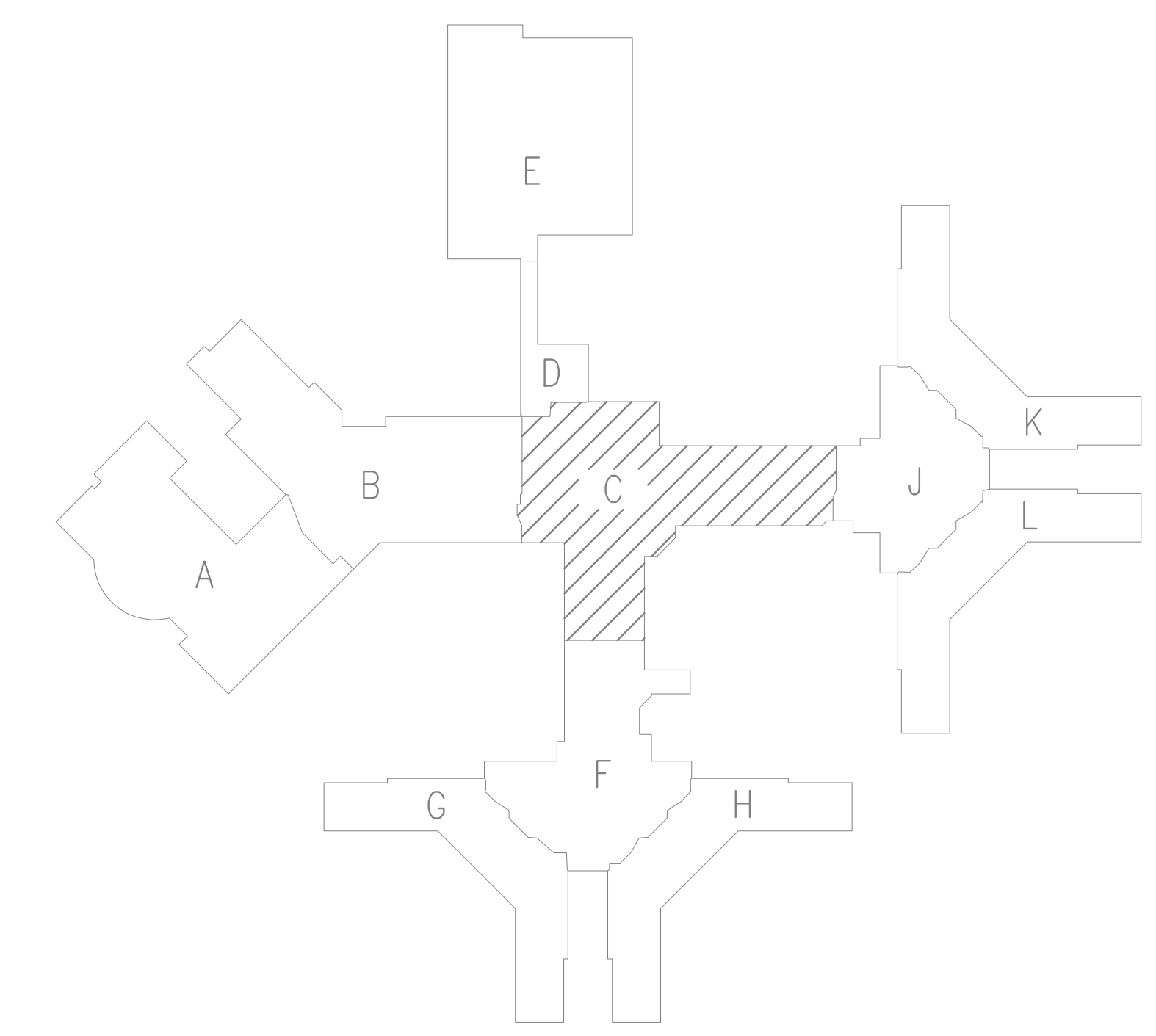
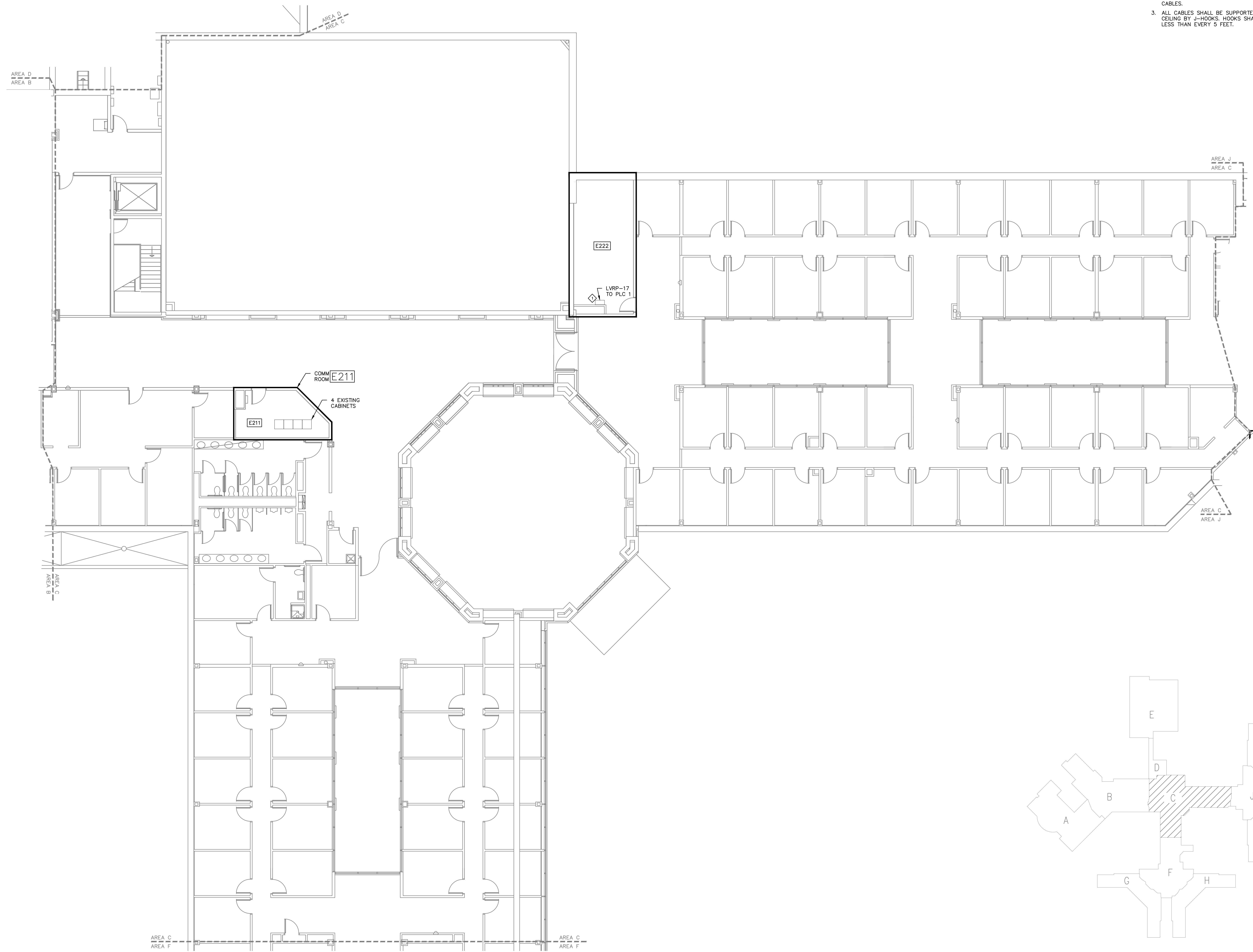
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SHEET NUMBER  
**TC.2C**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA C



1  
TC.2C  
FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA C  
1/8"=1'-0"

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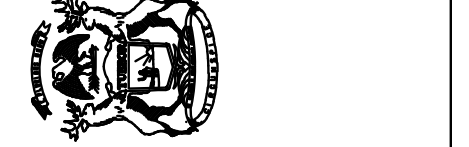
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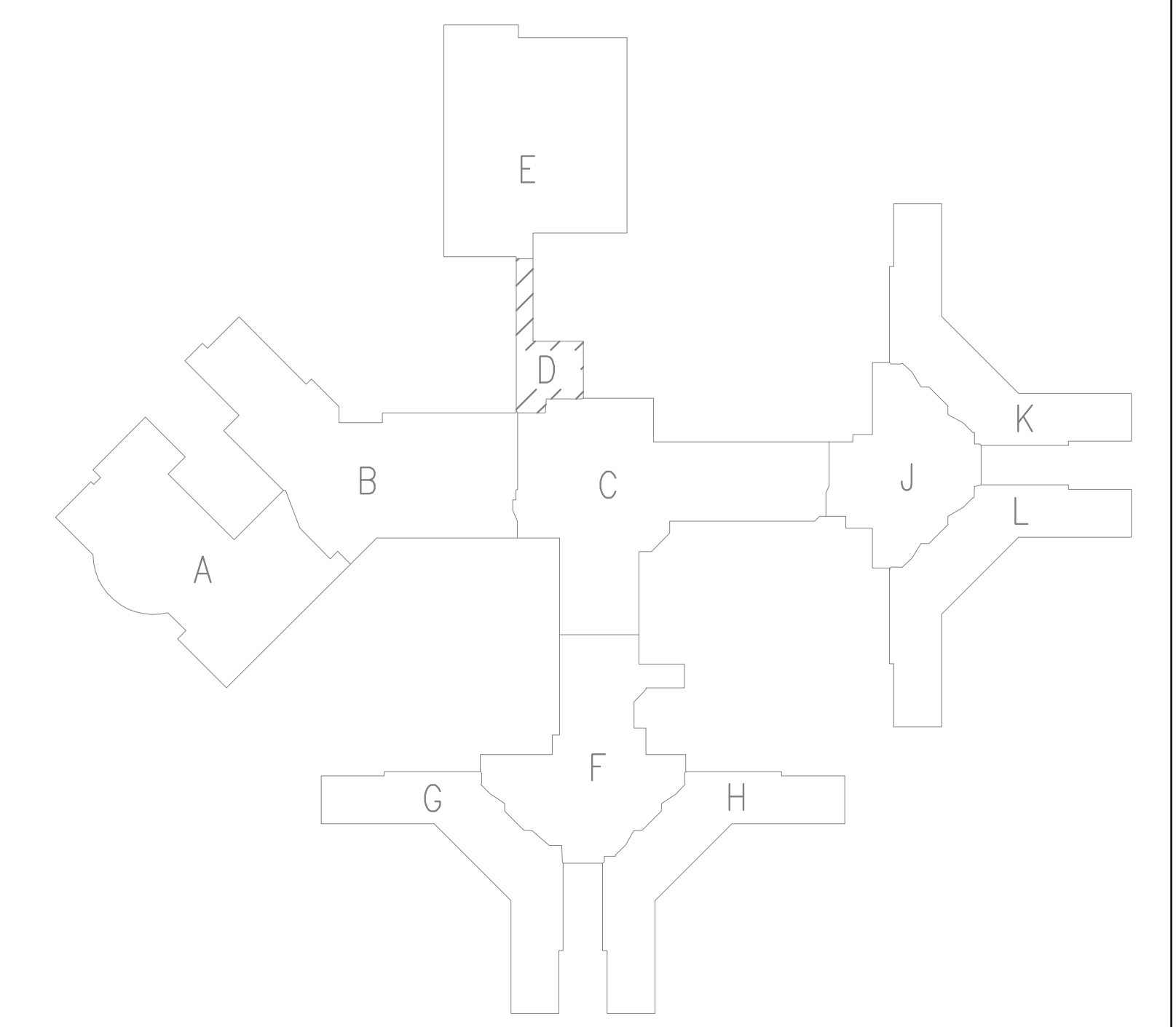
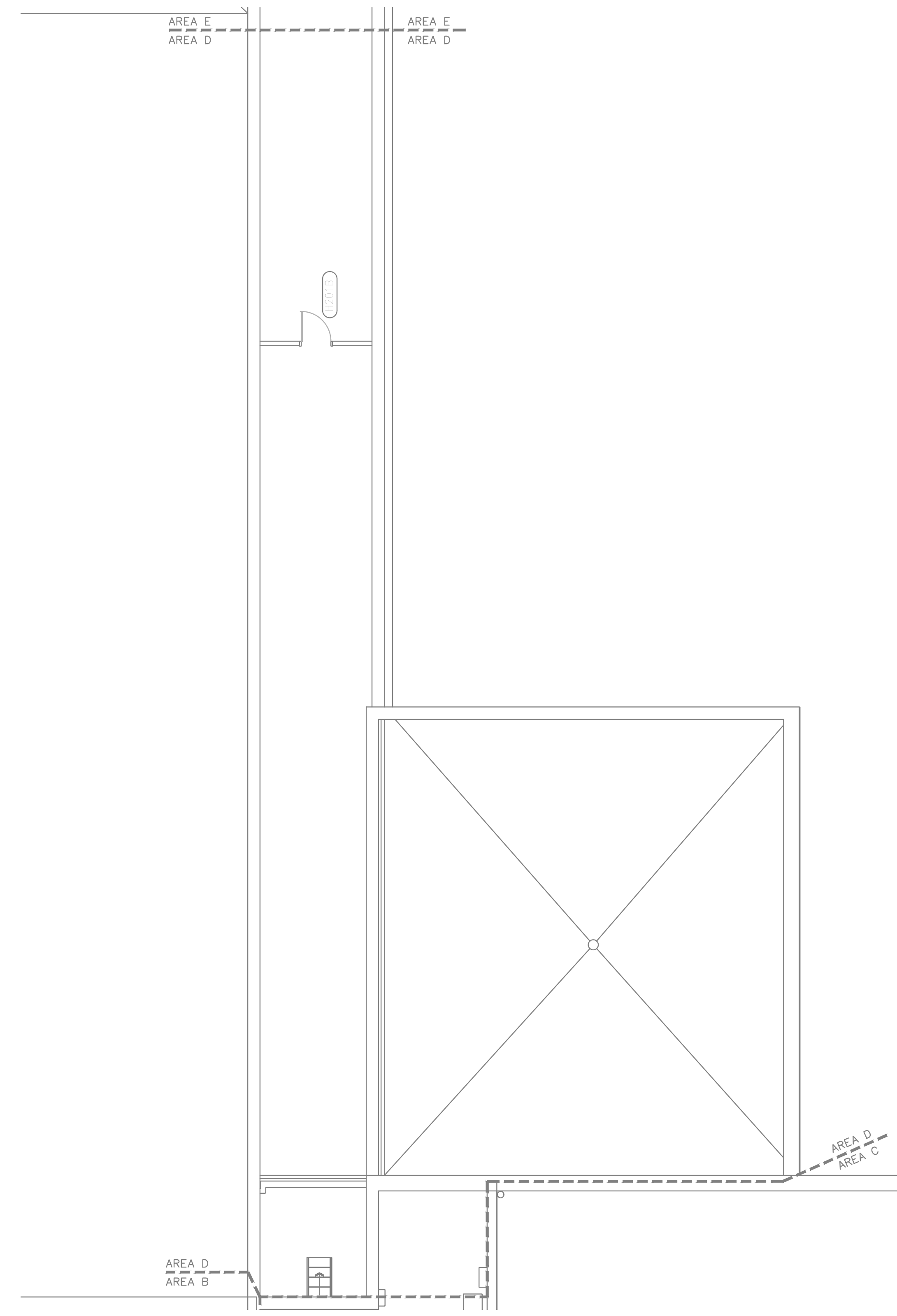
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SHEET NUMBER  
**TC.2D**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA D



N  
1  
TC.2D  
FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA D  
1/8"=1'-0" 0 1'

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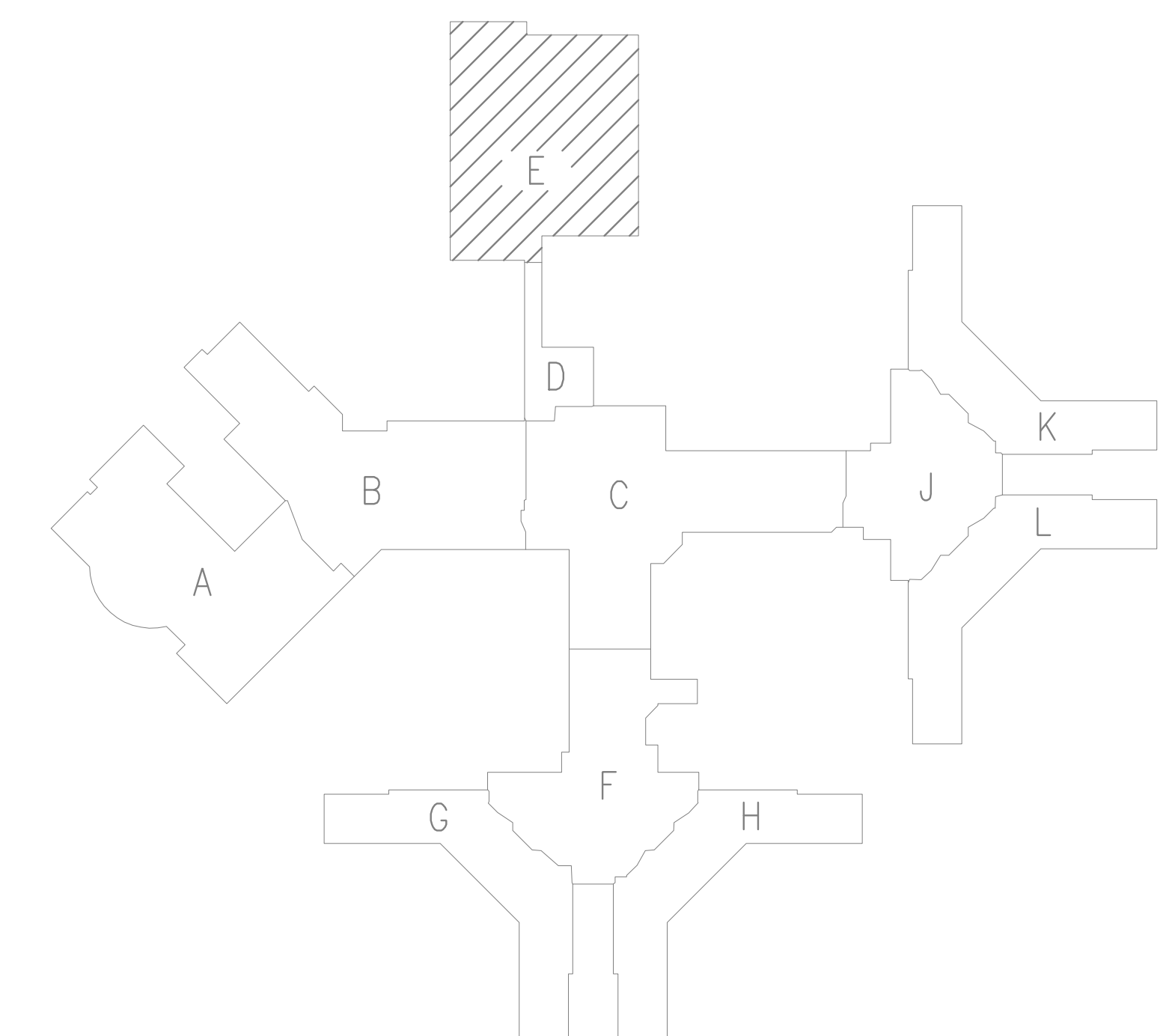
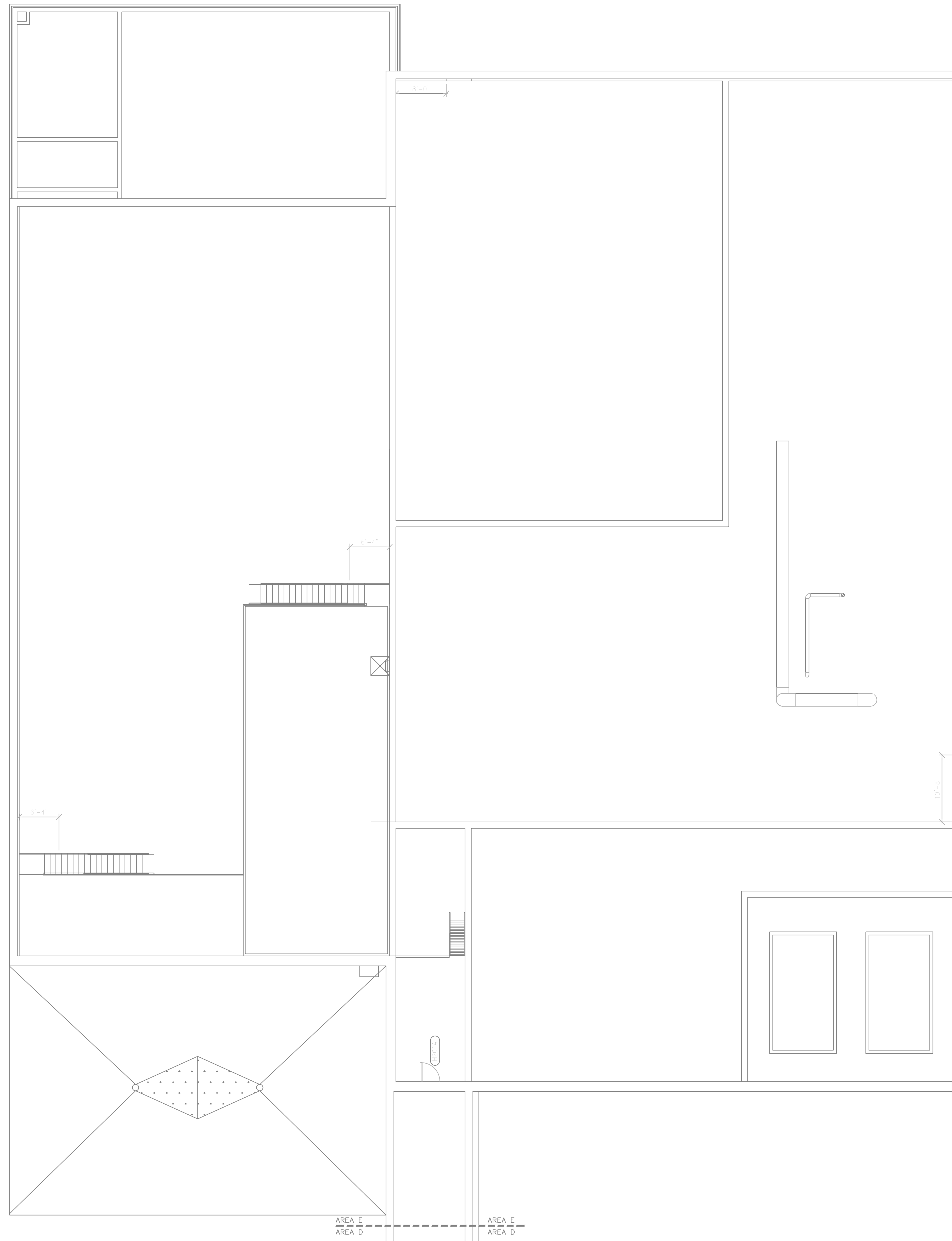
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N  
1  
TC.2E  
FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA E  
1/8"=1'-0" 0 1'

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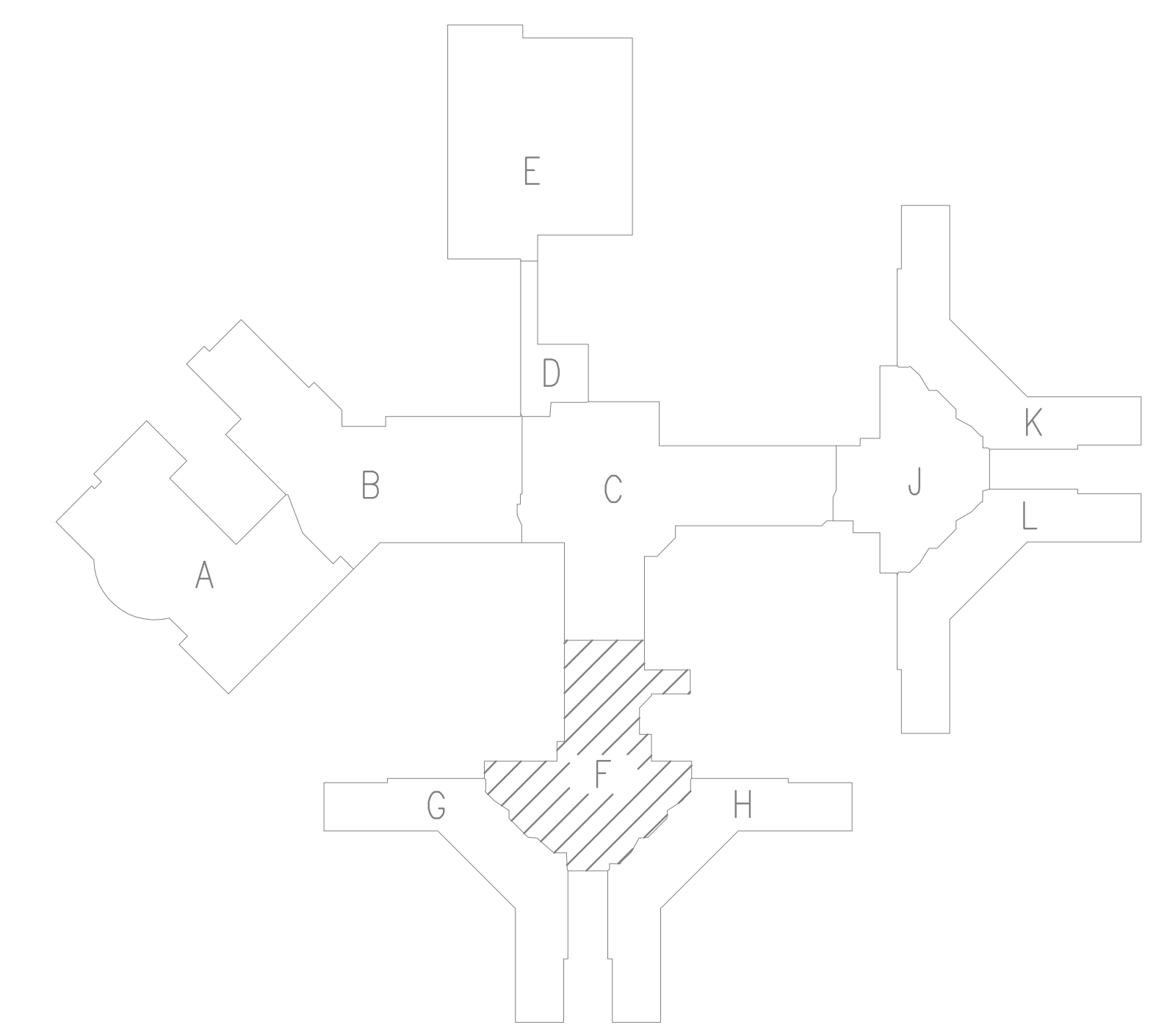
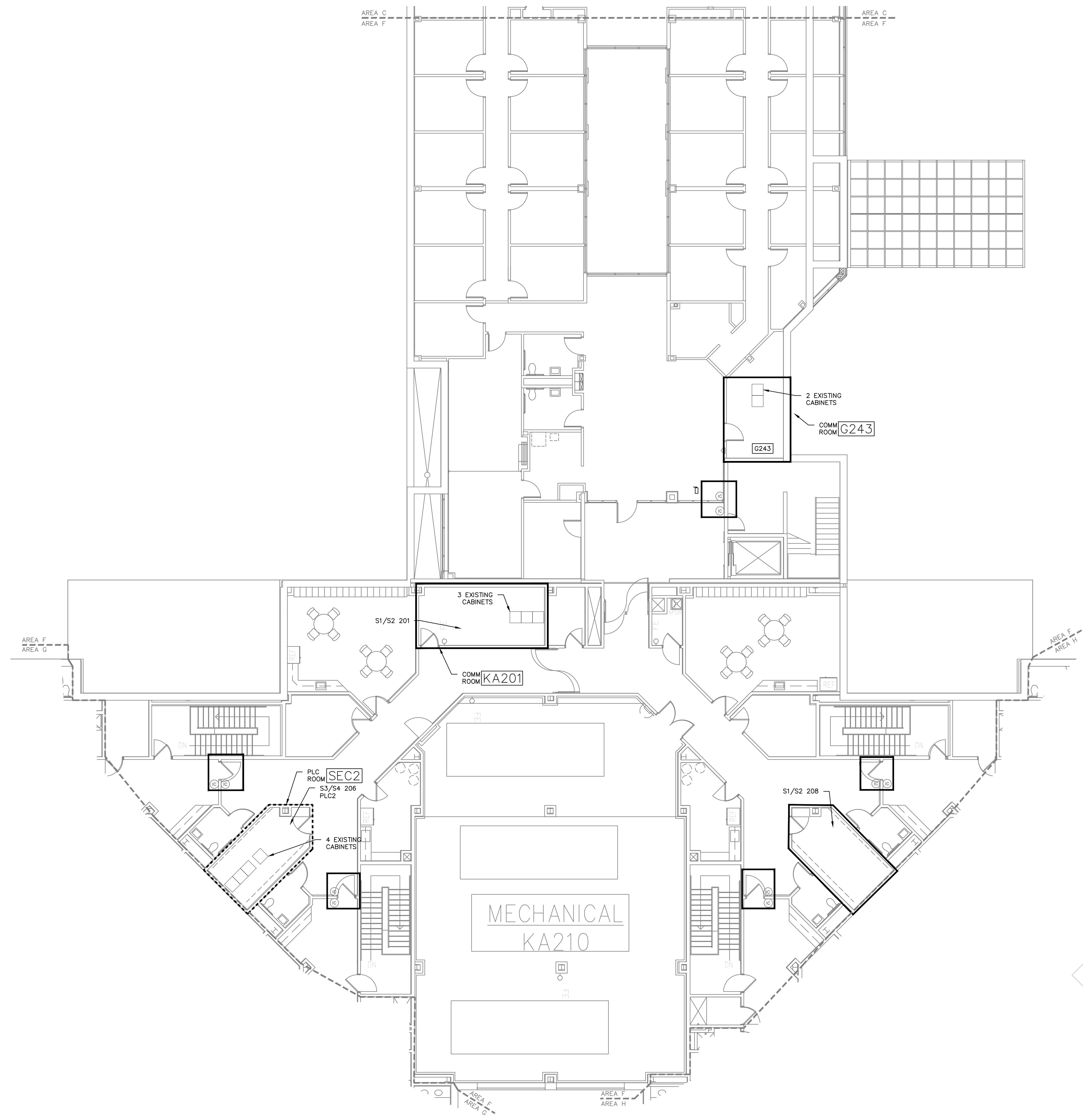
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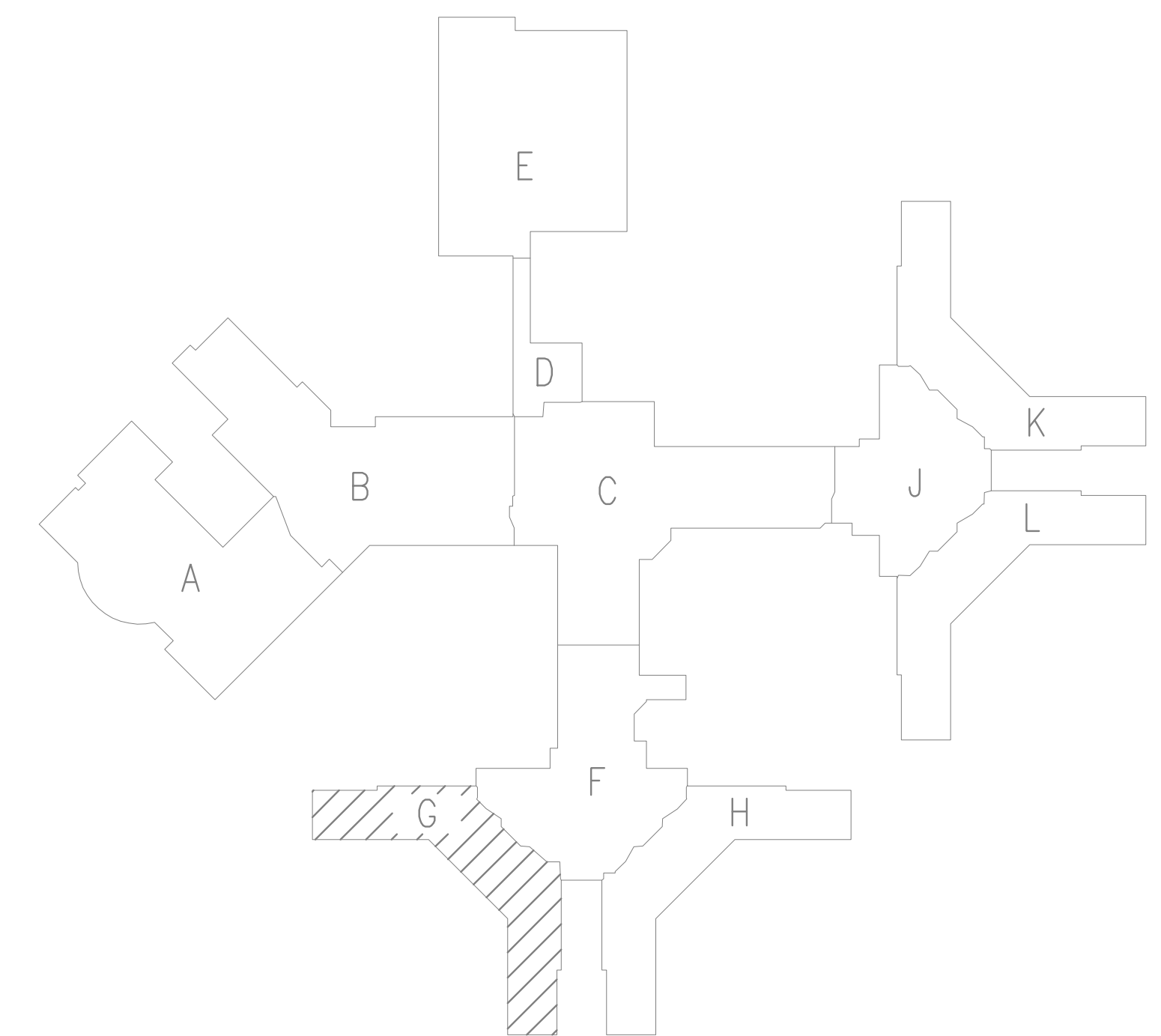
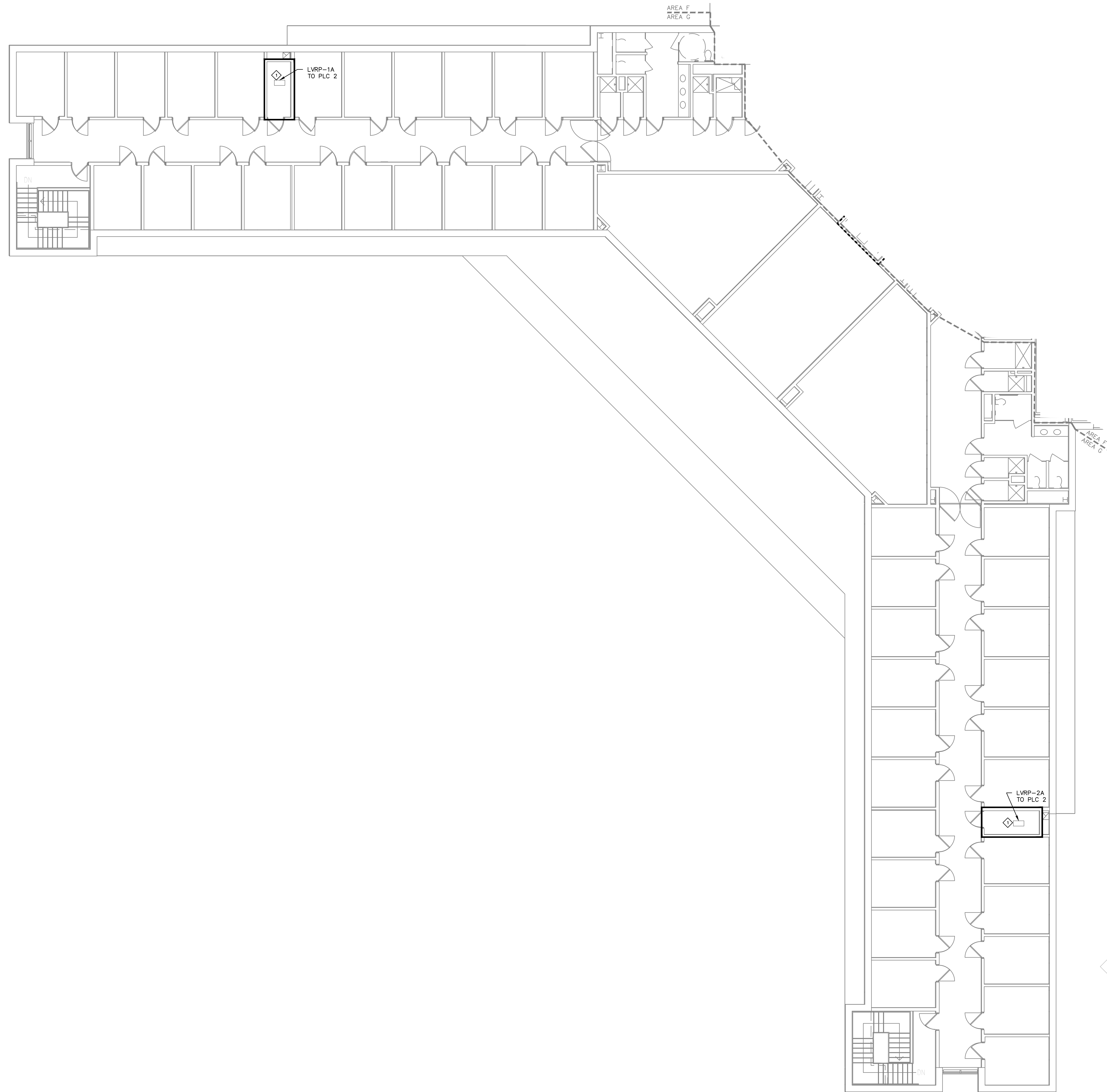
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**TC.2E**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA E

**GENERAL CABLING NOTES**

1. COMMUNICATIONS CONTRACTOR SHALL INSTALL ANY PASS-THRU'S REQUIRED FOR ROUTING CABLES AROUND THE BUILDING THAT ARE NOT SHOWN AS BEING INSTALLED AS PART OF THE "TR" SERIES DRAWINGS. SEE ATTACHED.
2. CONTRACTOR SHALL COMPLETE A WALK-THRU OF THE SITE DURING CONSTRUCTION AND SHALL VERIFY ALL CONDUITS AND PASS THRU'S ARE INSTALLED FOR CABLES.
3. ALL CABLES SHALL BE SUPPORTED ABOVE THE DROP CEILING BY J-HOOKS. HOOKS SHALL BE LOCATED NO LESS THAN EVERY 5 FEET.



1 FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA F  
1/8"=1'-0" 0 1'



**GENERAL CABLING NOTES**

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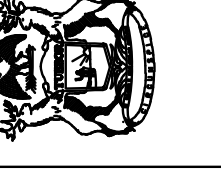
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REPLACE SECURITY SYSTEM  
PROGRAMMABLE LOGIC CONTROLLERS  
SALINE, MICHIGAN

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
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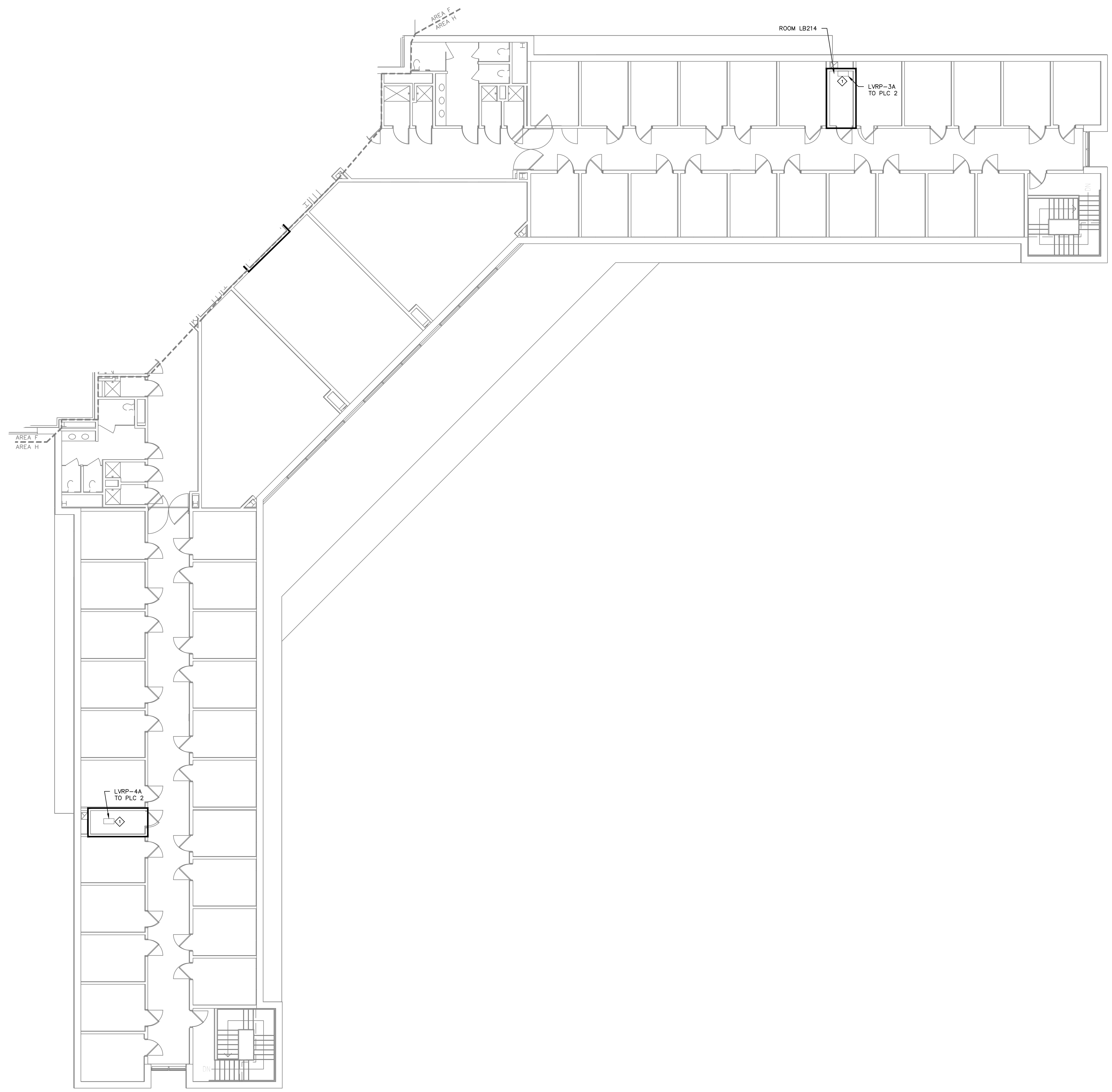
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SHEET NUMBER  
**TC.2G**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA G

1  
TC.2G

1/8"=1'-0"

0 1'



**GENERAL CABLING NOTES**

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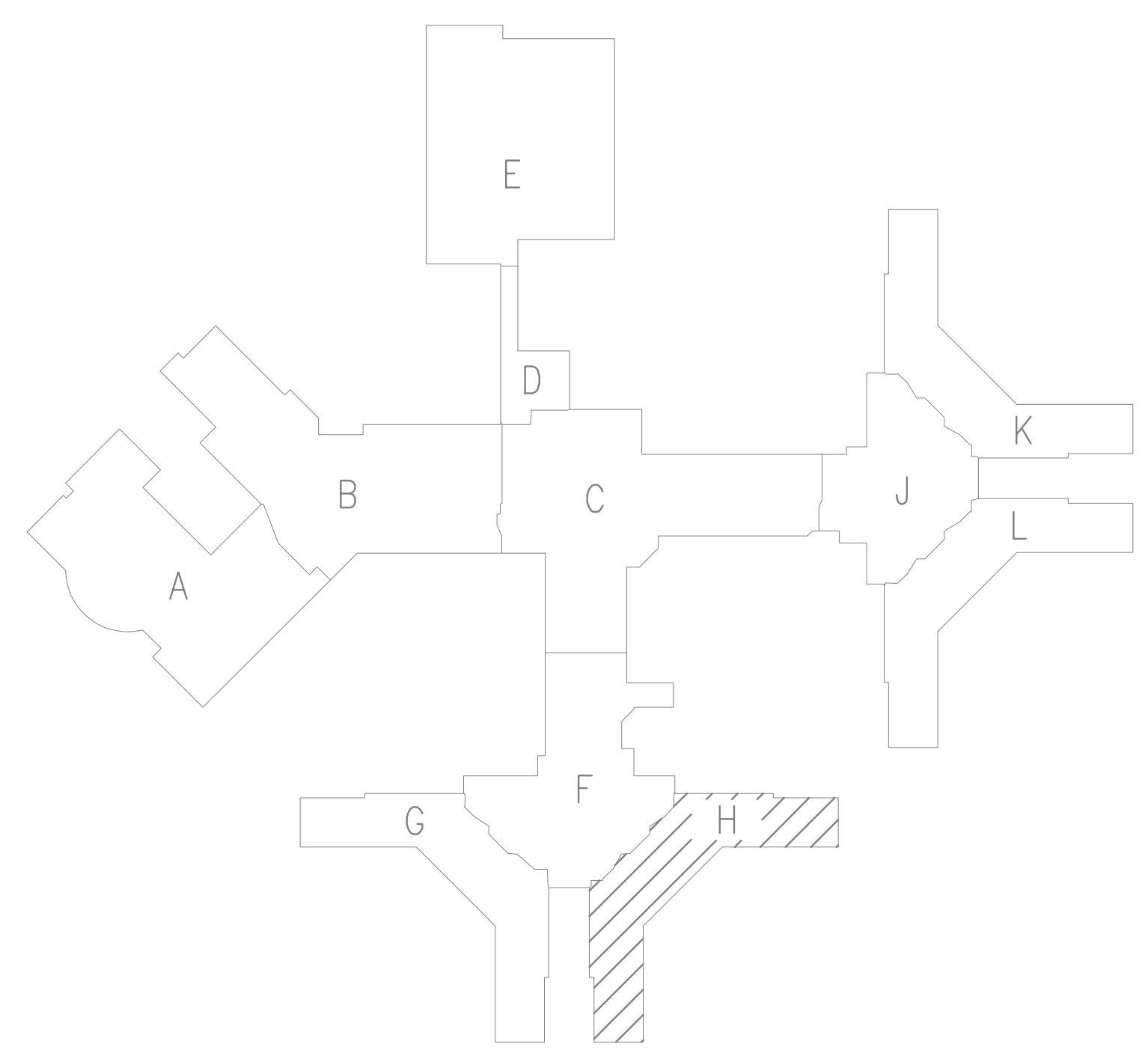
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consultant job no.  
 1065\_105

SHEET NUMBER  
**TC.2H**  
 FORENSIC PSYCH PLC  
 SECOND FLOOR CABLING  
 PLAN AREA H



1 FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA H  
 TC.2H 1/8"=1'-0" 0 1'

**GENERAL CABLING NOTES**

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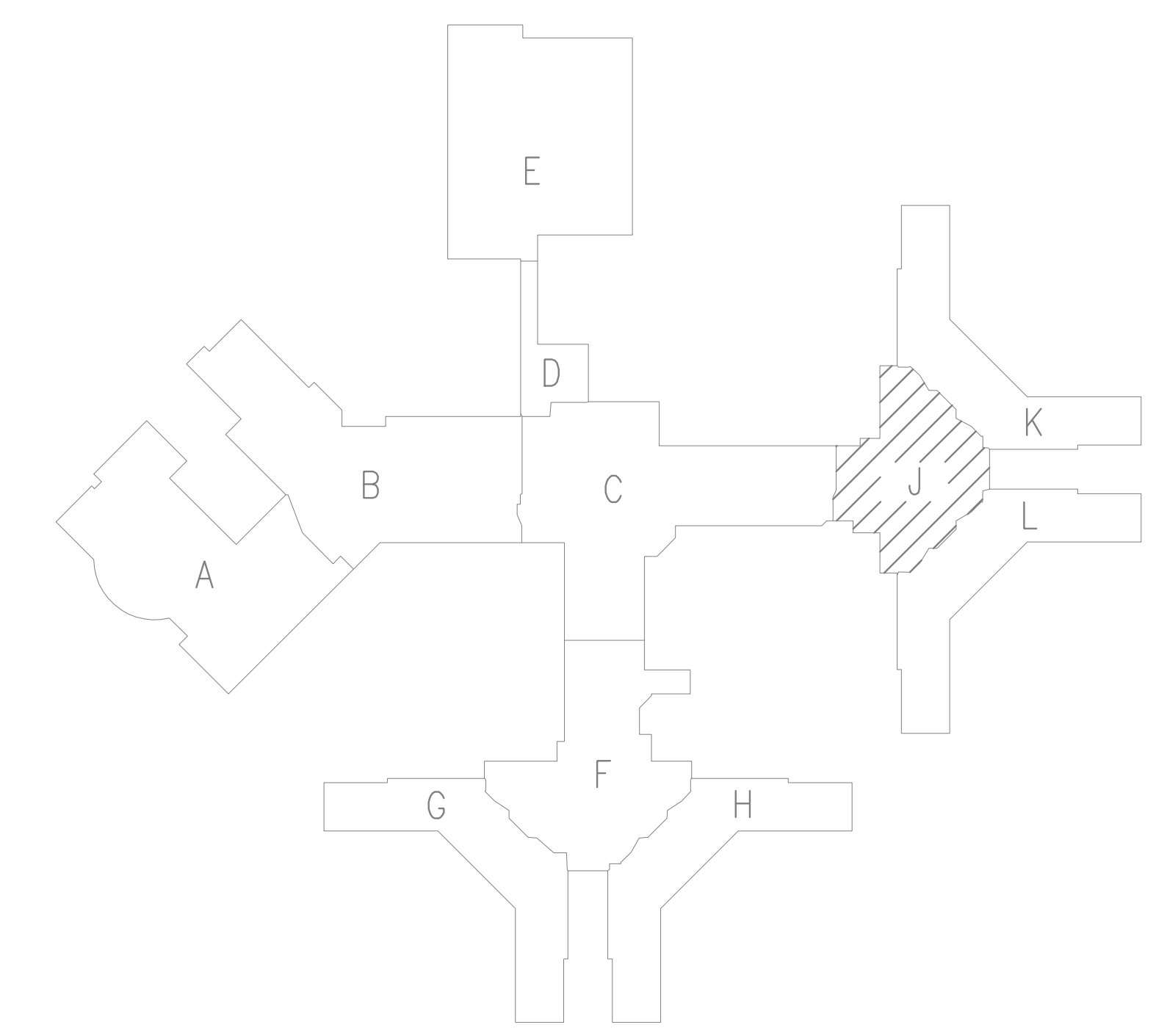
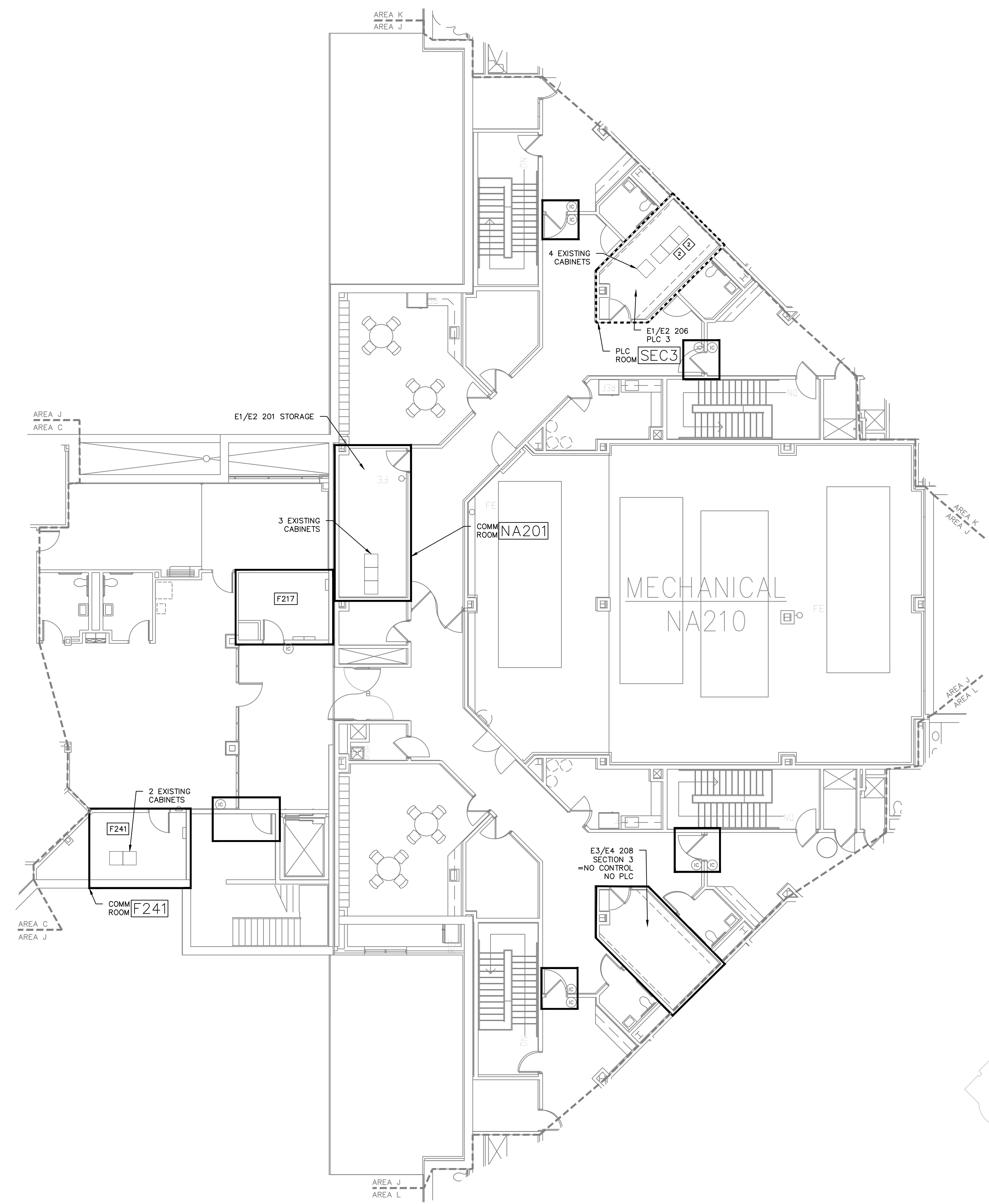
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1  
TC.2J

FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA J

1/8"=1'-0"



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SHEET NUMBER  
**TC.2J**

FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA J



**GENERAL CABLING NOTES**

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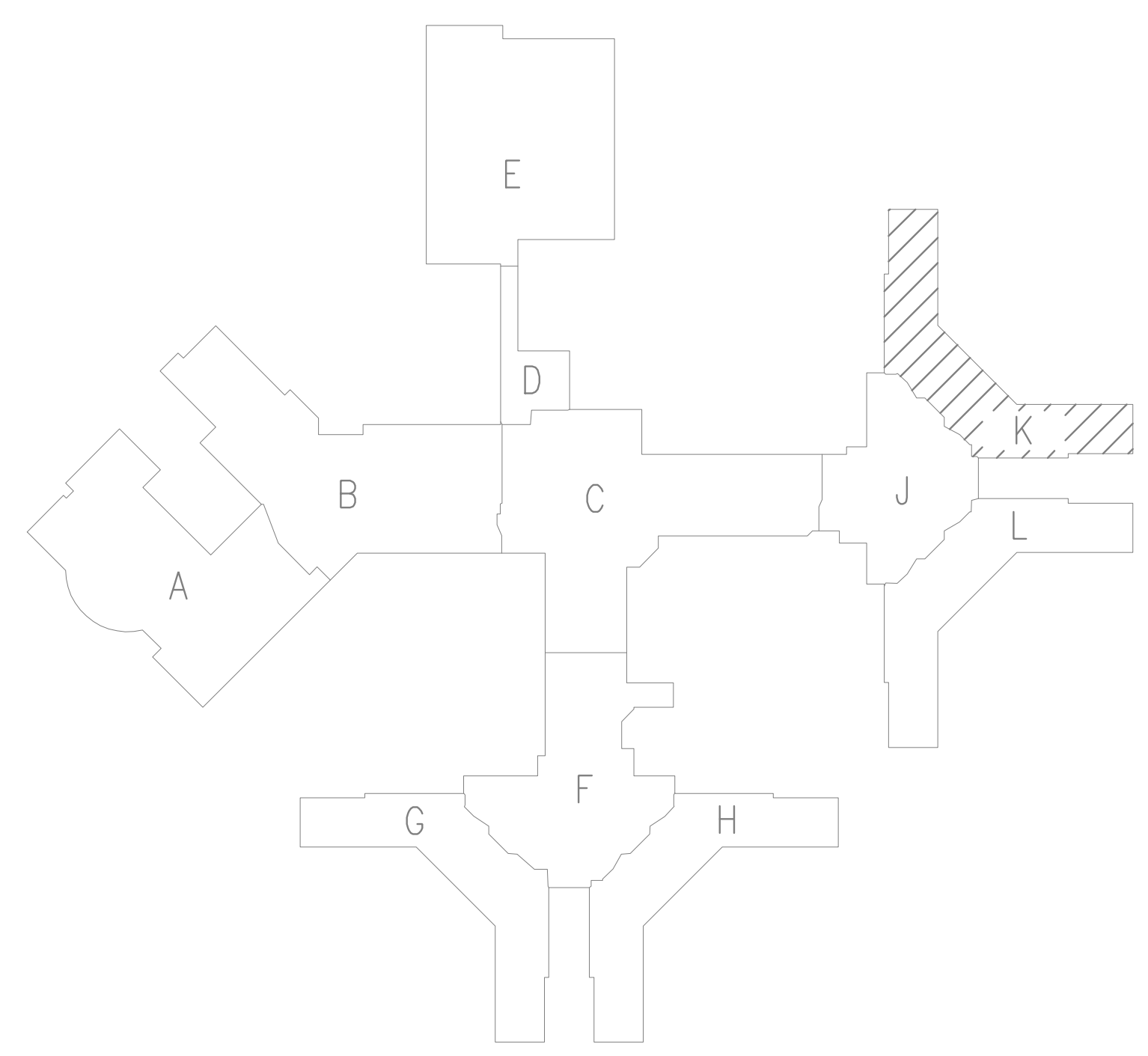
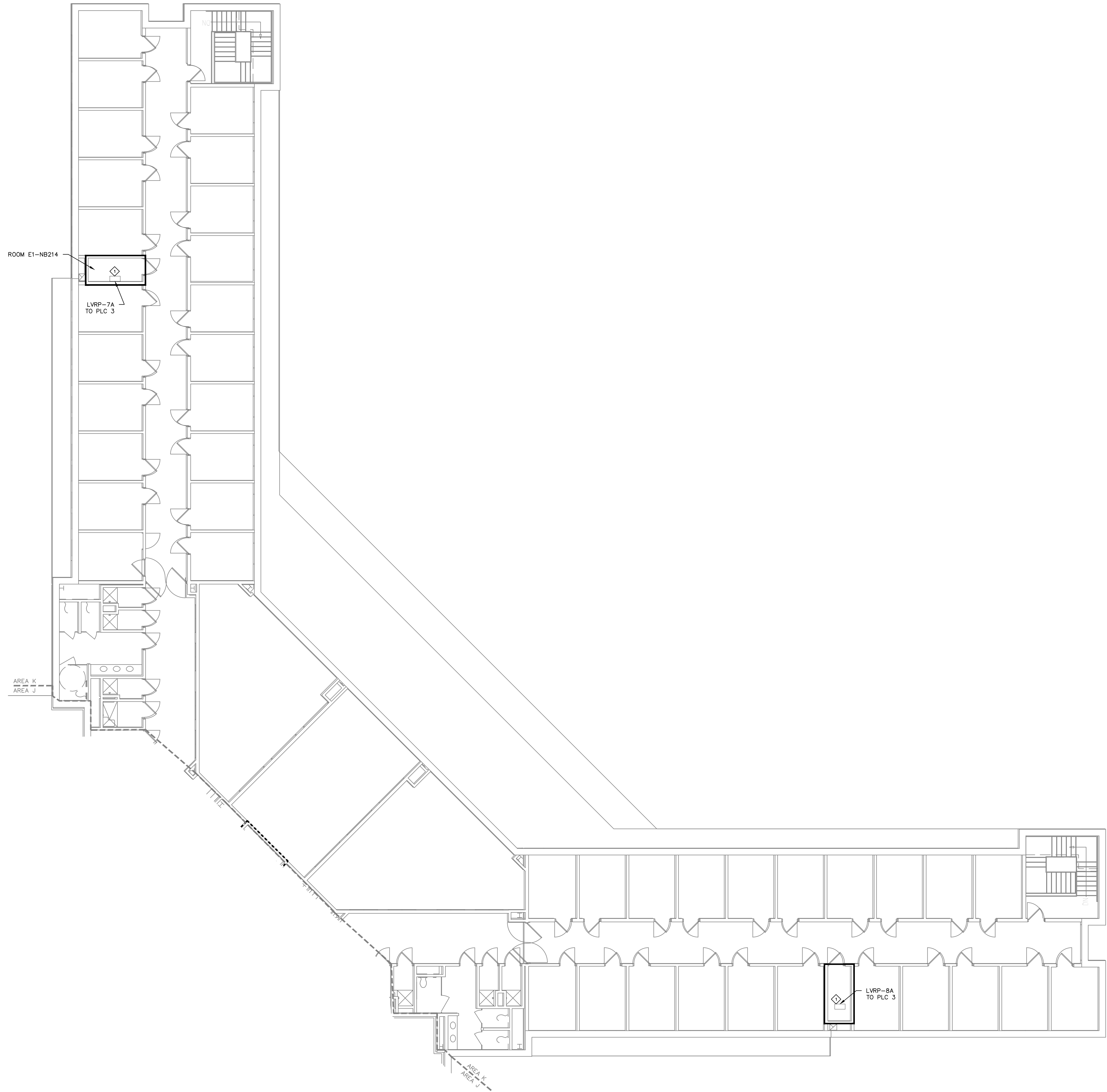


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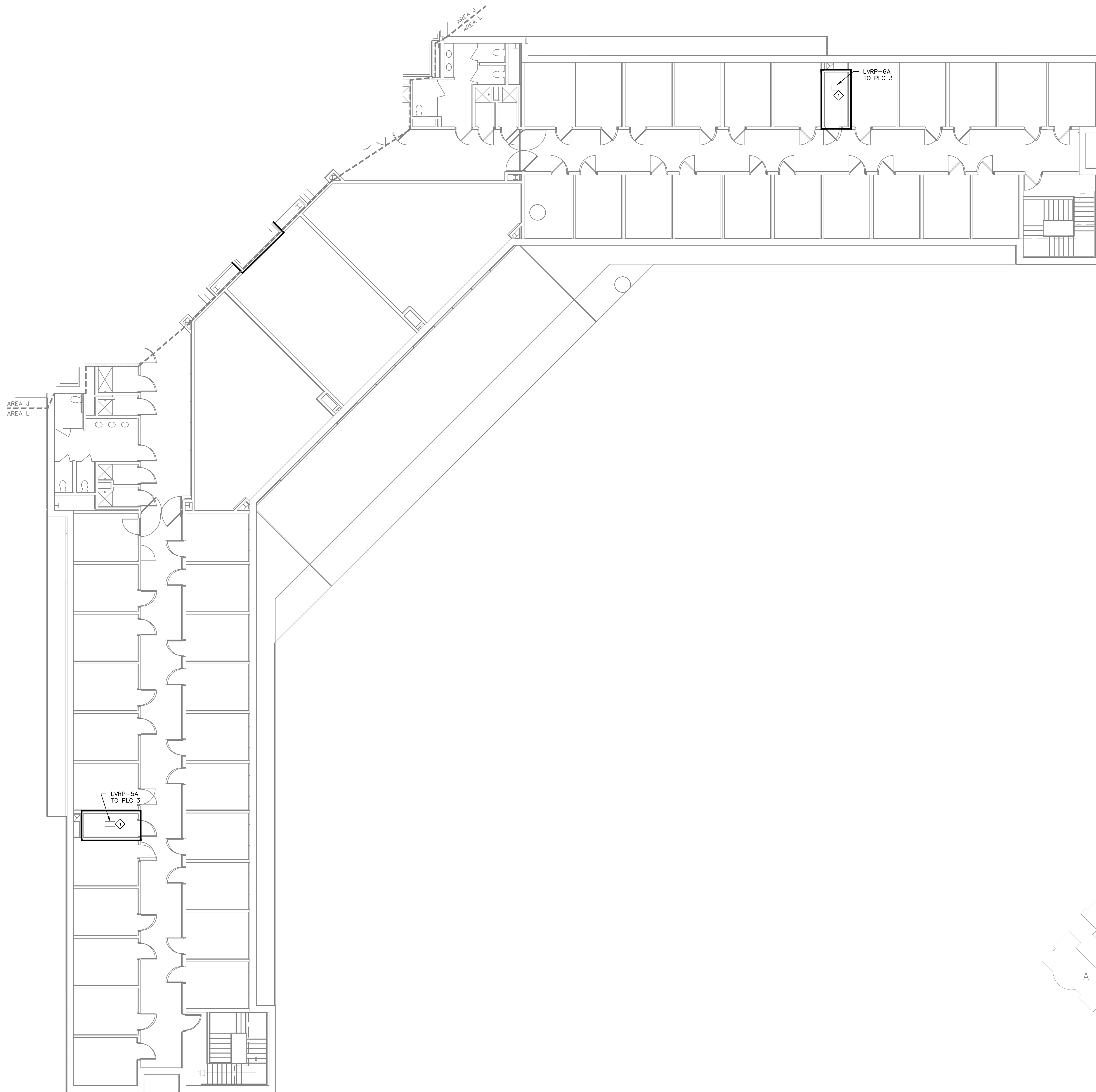
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SHEET NUMBER  
**TC.2K**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA K



1 FORENSIC PSYCH PLC SECOND FLOOR  
CABLING PLAN AREA K  
1/8"=1'-0" 0 1'



**GENERAL CABLING NOTES**

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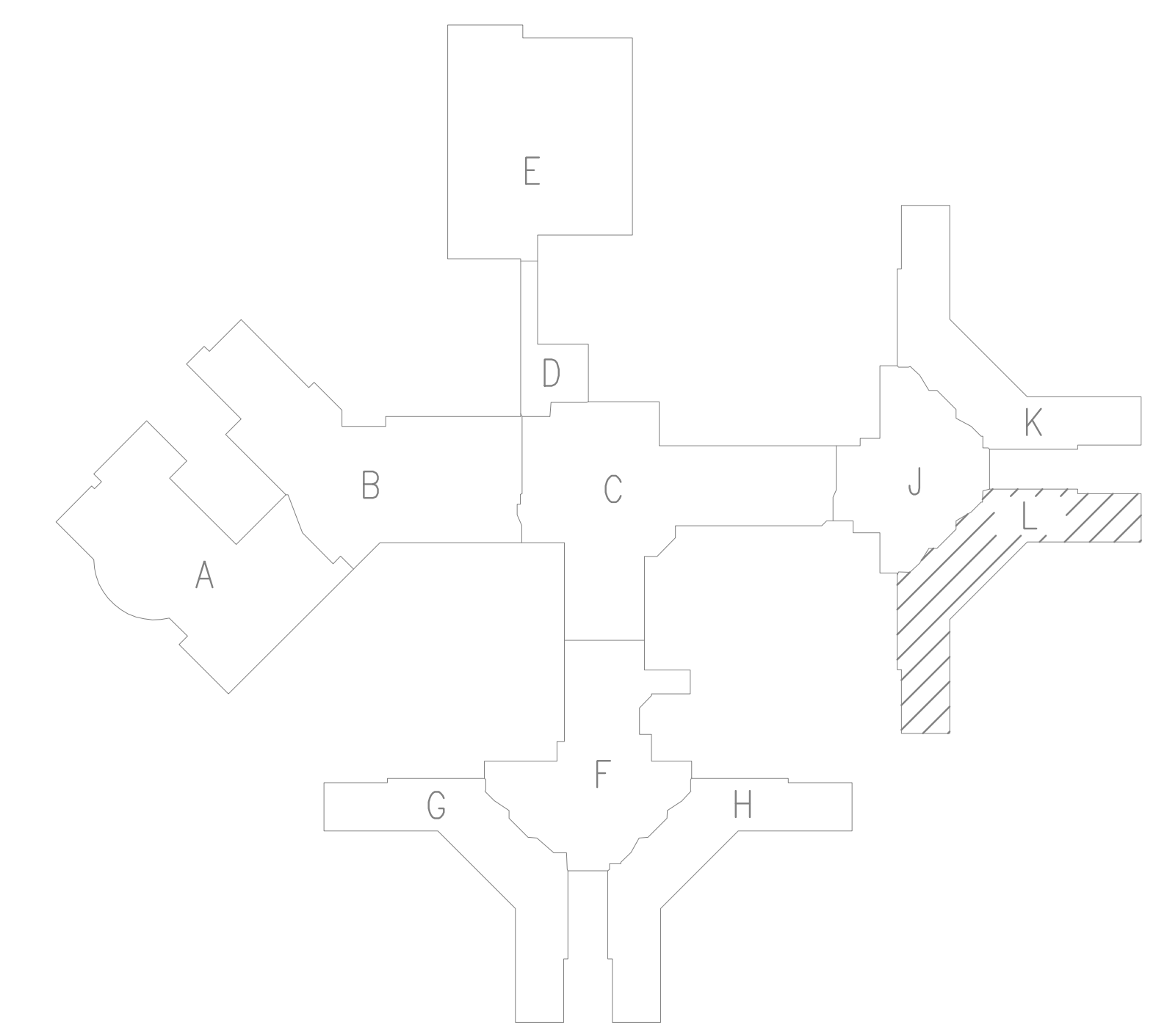
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SHEET NUMBER  
**TC.2L**  
FORENSIC PSYCH PLC  
SECOND FLOOR CABLING  
PLAN AREA L



1 FORENSIC PSYCH PLC SECOND FLOOR CABLING PLAN AREA L  
1/8"=1'-0" 0 1'