Fashion Institute of Technology
Seventh Avenue at 27 Street
New York City 10001-5992
www.fitnyc.edu

Purchasing Department
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Purchasing Dept. Tel. 212-217-3630
Purchasing Dept. Fax 212-217-3631
Purchasing@fitnyc.edu

NOTICE TO ALL FIRMS

Date: November 16, 2026

To: All Prospective Bidders

From: Sam Li
Director of Procurement Services

Re: Addendum Number 2
IFB # C1762 – Science Department Renovation

Notes:

See Electrical and AV Drawings attached.

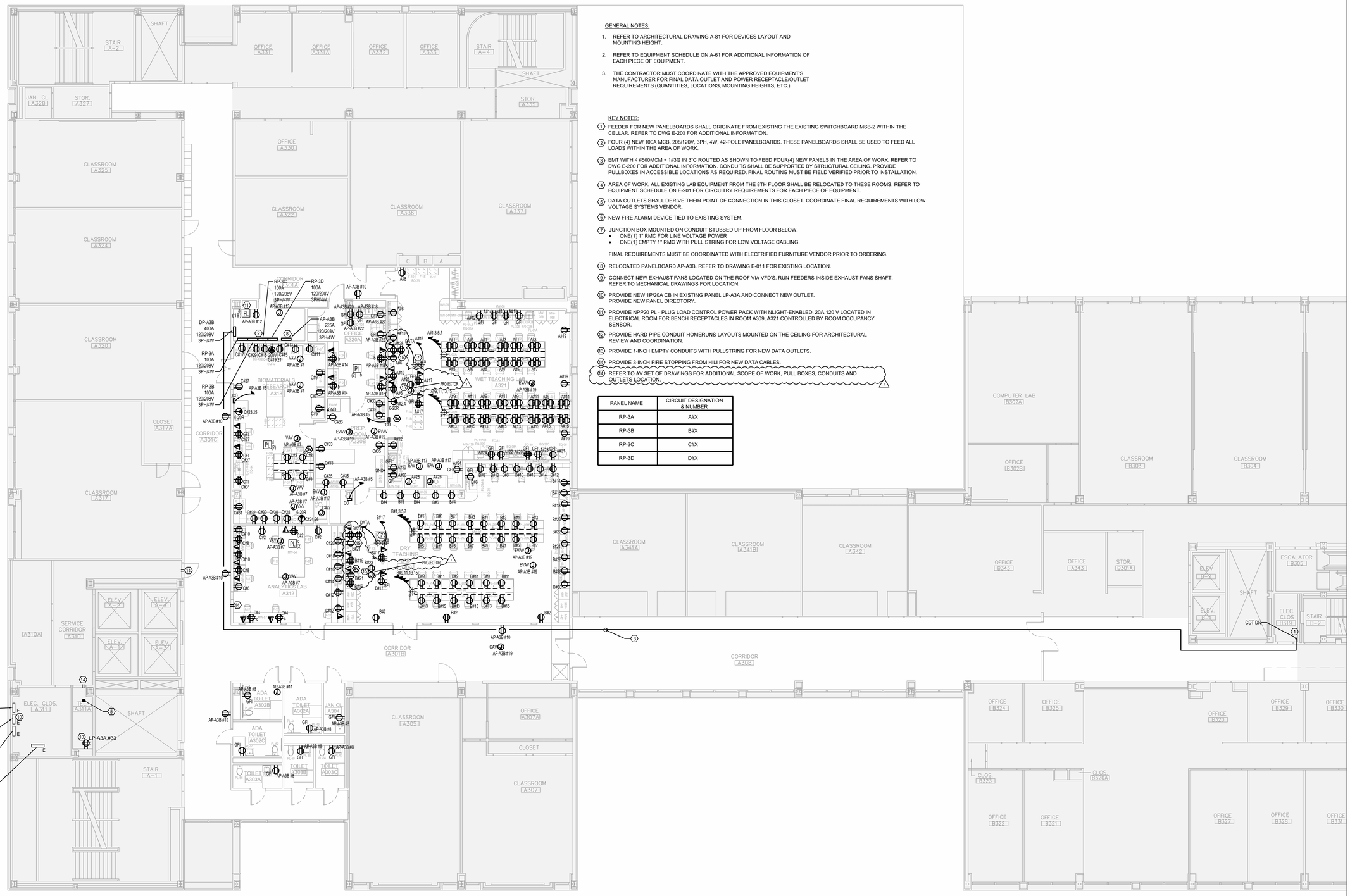
THIS ADDENDUM IS PART OF THE CONTRACT DOCUMENT AND SHALL BE INCLUDED WITH YOUR REQUEST FOR PROPOSAL SUBMITTAL. YOUR SIGNATURE BELOW WARRANTS THAT YOU UNDERSTAND THIS ADDENDUM AND THAT YOU HAVE MADE THE APPRORIATE ADJUSTMENTS IN YOUR PROPOSAL AND CALCULATIONS.

_____
Signature

_____
Print Name and Title of Authorized Representative

_____
Print Name of Company/Partnership/Individual

_____
Date



1 3RD FLOOR PLAN
1/8"=1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWING A-81 FOR DEVICES LAYOUT AND MOUNTING HEIGHT.
2. REFER TO EQUIPMENT SCHEDULE ON A-61 FOR ADDITIONAL INFORMATION OF EACH PIECE OF EQUIPMENT.
3. THE CONTRACTOR MUST COORDINATE WITH THE APPROVED EQUIPMENT'S MANUFACTURER FOR FINAL DATA OUTLET AND POWER RECEPTACLE/OUTLET REQUIREMENTS (QUANTITIES, LOCATIONS, MOUNTING HEIGHTS, ETC.).

KEY NOTES:

1. FEEDER FOR NEW PANELBOARDS SHALL ORIGINATE FROM EXISTING THE EXISTING SWITCHBOARD MSB-2 WITHIN THE CELLAR. REFER TO DWG E-203 FOR ADDITIONAL INFORMATION.
2. FOUR (4) NEW 100A MCB, 208/120V, 3PH, 4W, 42-POLE PANELBOARDS. THESE PANELBOARDS SHALL BE USED TO FEED ALL LOADS WITHIN THE AREA OF WORK.
3. EMT WITH 4 #500MCM + 1#3G IN 3"C ROUTED AS SHOWN TO FEED FOUR(4) NEW PANELS IN THE AREA OF WORK. REFER TO DWG E-200 FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE SUPPORTED BY STRUCTURAL CEILING. PROVIDE PULLBOXES IN ACCESSIBLE LOCATIONS AS REQUIRED. FINAL ROUTING MUST BE FIELD VERIFIED PRIOR TO INSTALLATION.
4. AREA OF WORK. ALL EXISTING LAB EQUIPMENT FROM THE 8TH FLOOR SHALL BE RELOCATED TO THESE ROOMS. REFER TO EQUIPMENT SCHEDULE ON E-201 FOR CIRCUITRY REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
5. DATA OUTLETS SHALL DERIVE THEIR POINT OF CONNECTION IN THIS CLOSET. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE SYSTEMS VENDOR.
6. NEW FIRE ALARM DEVICE TIED TO EXISTING SYSTEM.
7. JUNCTION BOX MOUNTED ON CONDUIT STUBBED UP FROM FLOOR BELOW.
   - ONE(1) 1" RMC FOR LINE VOLTAGE POWER
   - ONE(1) EMPTY 1" RMC WITH PULL STRING FOR LOW VOLTAGE CABLING.

   FINAL REQUIREMENTS MUST BE COORDINATED WITH ELECTRIFIED FURNITURE VENDOR PRIOR TO ORDERING.
8. RELOCATED PANELBOARD AP-A3B. REFER TO DRAWING E-011 FOR EXISTING LOCATION.
9. CONNECT NEW EXHAUST FANS LOCATED ON THE ROOF VIA VFD'S. RUN FEEDERS INSIDE EXHAUST FANS SHAFT. REFER TO MECHANICAL DRAWINGS FOR LOCATION.
10. PROVIDE NEW 1P/20A CB IN EXISTING PANEL LP-A3A AND CONNECT NEW OUTLET. PROVIDE NEW PANEL DIRECTORY.
11. PROVIDE NPP20 PL - PLUG LOAD CONTROL POWER PACK WITH NLIGHT-ENABLED, 20A,120 V LOCATED IN ELECTRICAL ROOM FOR BENCH RECEPTACLES IN ROOM A309, A321 CONTROLLED BY ROOM OCCUPANCY SENSOR.
12. PROVIDE HARD PIPE CONDUIT HOMERUNS LAYOUTS MOUNTED ON THE CEILING FOR ARCHITECTURAL REVIEW AND COORDINATION.
13. PROVIDE 1-INCH EMPTY CONDUITS WITH PULLSTRING FOR NEW DATA OUTLETS.
14. PROVIDE 3-INCH FIRE STOPPING FROM HILI FOR NEW DATA CABLES.
15. REFER TO AV SET OF DRAWINGS FOR ADDITIONAL SCOPE OF WORK, PULL BOXES, CONDUITS AND OUTLETS LOCATION.

PANEL NAME	CIRCUIT DESIGNATION & NUMBER
RP-3A	A#X
RP-3B	B#X
RP-3C	C#X
RP-3D	D#X

NEW YORK CITY ENERGY CONSERVATION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 NEW YORK CITY ENERGY CONSERVATION CODE.

FIT Science Lab Renovation

Project No. 2449

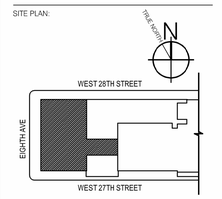
344 8TH AVE
NEW YORK, NY 10001
212.217.7999

ARCHITECT
SAMUEL ANDERSON ARCHITECTS
307 WEST 38TH ST, SUITE 1901
NEW YORK NY 10018
212.564.7002
SAMUELANDERSON.COM

MEP ENGINEER
MG ENGINEERING D.P.C
116 WEST 32ND STREET
NEW YORK, NY 10001
212.643.9055

LIGHTING DESIGNER
JEFFREY NASH LIGHTING DESIGN
150 WEST 28TH STREET, SUITE 1603
NEW YORK, NY 10001
212.206.8355

SITE PLAN:



SUBMITTAL:

100% Construction Documents

ISSUE / REVISION:

No.	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	2026.03.31
	100% CONSTRUCTION DOCUMENT	2026.08.19
	ISSUED FOR DOB FILING	2026.10.21
	100% BID DOCUMENTS	2026.10.28
△	BID ADDENDUM #2	2026.11.17

SEAL & SIGNATURE:

DRAWN BY: EGV CHECKED BY: EGV

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

PROJECT#: 8969.109

SHEET TITLE:

3RD FLOOR ELECTRICAL POWER PLAN

SHEET NUMBER:

E-201.00

- OF -

AUDIOVISUAL SYSTEMS BID ADDENDUM #2

FIT SCIENCE LAB RENOVATION

DUBINSKY CENTER, 3RD FLOOR — WET TEACHING LAB A321 & DRY TEACHING LAB A309

340 8TH AVENUE, NEW YORK, NY 10001

PROJECT TEAM

OWNER	Fashion Institute of Technology (FIT)
ARCHITECT	Samuel Anderson Architects
ELECTRICAL ENGINEER	MG Engineering
AV CONTRACTOR	Adwar Video 125 Gazza Blvd, Farmingdale, NY 11735 631-777-7070 · www.adwarvideo.com

DRAWING LIST

SHEET	TITLE	REV	DATE
AV-000	COVER SHEET	4	11/13/26
AV-001	AV EQUIPMENT RACK ELEVATION — TYPICAL A321 & A309	4	11/13/26
AV-002	SYSTEM DIAGRAM — TYPICAL A321 & A309	4	11/13/26
AV-003	CABLE PULL DIAGRAM — TYPICAL A321 & A309	4	11/13/26
AV-004	AV CONDUIT RISER DIAGRAM — TYPICAL A321 & A309	4	11/13/26
AV-101	AV PLAN — DRY TEACHING LAB A309	4	11/13/26
AV-102	AV PLAN — WET TEACHING LAB A321	4	11/13/26
AV-201	TEACHING WALL — AV ELEVATION — A309	4	11/13/26
AV-202	TEACHING WALL — AV ELEVATION — A321	4	11/13/26
AV-401	AV CABINET CAB-01 — TYPICAL A321 & A309	4	11/13/26
AV-501	CABLE SCHEDULE, EC INFRASTRUCTURE & NOTES — A309	4	11/13/26
AV-502	CABLE SCHEDULE, EC INFRASTRUCTURE & NOTES — A321	4	11/13/26

SCOPE RESPONSIBILITY (F = FURNISH · I = INSTALL)

ITEM	AV CONTR.	GC	EC	MILLWORK	FIT
AV equipment: projector, switcher, amplifier, speakers, controller, plates, rack	F / I				
Low-voltage AV cabling, terminations, programming	F / I				
Projection screen SCR-01	F	I			
In-wall blocking to mount the screen housing		F / I			
Cutouts in gypsum clouds for recessed speakers (7.6" dia.)		I			
Projector ceiling plate + mount, anchored to the slab	F / I				
Boxes, conduit and pull strings (AV-004, AV-501 / AV-502)			F / I		
AV receptacles and branch circuits P01–P04, screen power			F / I		
Base cabinet CAB-01, vents, cutouts, countertop grommet (AV-401)				F / I	
PC (Dell AIO) and its network drop					F / I

GENERAL NOTES

WITH THE EXCEPTION OF SCR-01 MOTORIZED PROJECTION SCREEN: FURNISHED BY ADWAR, INSTALLED BY GC

1. AV equipment to be furnished and installed by FIT's AV Contractor (Adwar Video).
2. Refer to the electrical drawings. GC to coordinate power and conduit with the electrical contractor.
3. See architectural drawings for location of devices. AV device locations and mounting heights are shown on AV-101/102 and AV-201/202 for coordination.
4. Conduit sizing and quantity, boxes and receptacles: AV-501 (A309) and AV-502 (A321).
5. All AV receptacles on circuits not controlled by the plug-load control (E-201 key note 11).
6. Dimensions are scaled from the architect's bid set (2026.08.19) and E-201; verify in the field before rough-in.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	**EC**	ELECTRICAL CONTRACTOR	**SCR**	PROJECTION SCREEN
AV	AUDIOVISUAL	**GC**	GENERAL CONTRACTOR	**SPK**	SPEAKER
AVP	AUDIO VIDEO PLATE	**JB**	JUNCTION / PULL BOX	**TYP**	TYPICAL
CAB	CABINET	**LV**	LOW VOLTAGE	**≈**	APPROXIMATELY
CD	CONDUIT	**OFE**	OWNER-FURNISHED EQUIPMENT		
CTL	CONTROLLER	**PJ**	PROJECTOR		

SYMBOLS

◉	CEILING SPEAKER	**C## / SP## / LV##**	CAT 6A / SPEAKER / CONTROL CABLE RUN
⊖	RECEPTACLE (P##) — BY EC	**CD-#**	CONDUIT RUN — BY EC
⊡	JUNCTION / PULL BOX (JB-##) — BY EC	**P##**	120V POWER — BY EC
▬	SCREEN CASE	**AVP-## / CTL-##**	AV PLATE / CONTROLLER BOX
- - - - - -	ABOVE / HIDDEN / IN WALL		

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

ADWAR VIDEO
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sales@adwarvideo.com

PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

COVER SHEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

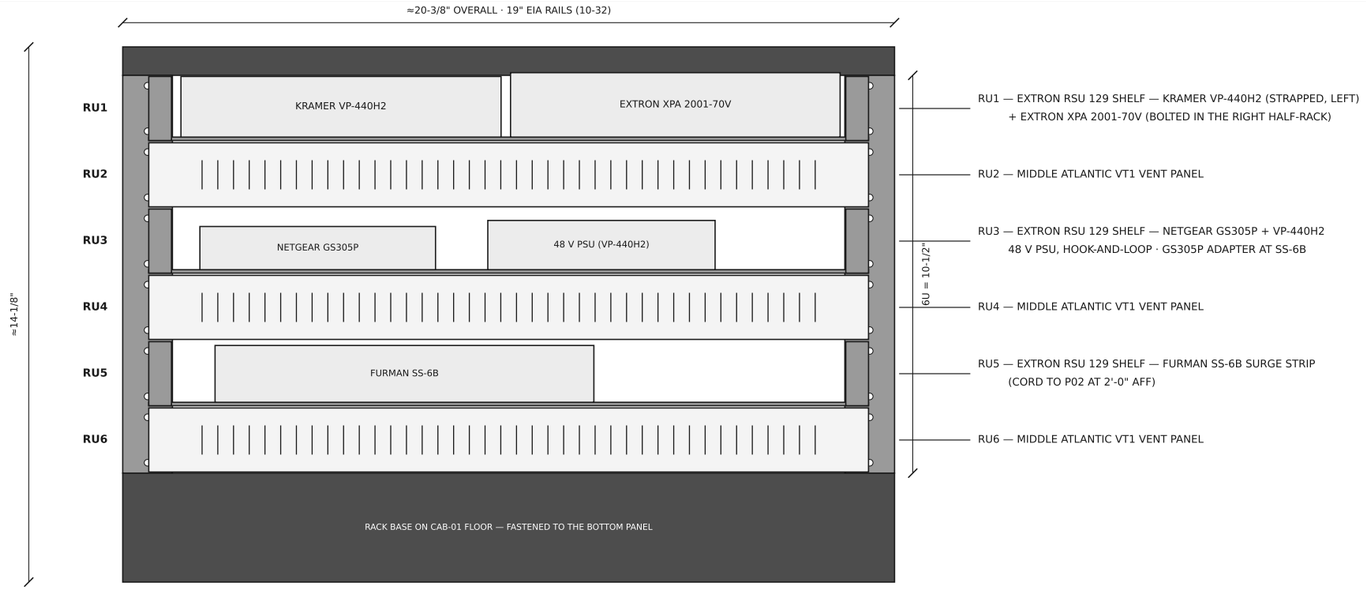
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-000



1 RACK FRONT ELEVATION

SCALE: 3" = 1'-0" · NAVEPOINT 6U 2-POST DESK RACK (00406578) · CAB-01 DOORS OPEN · RU1 AT TOP

RACK EQUIPMENT — CAB-01 (EACH ROOM)

RU	ITEM	MAKE / MODEL	MOUNTING
RU1	Equipment shelf, 1U, 9-1/2" deep	Extron RSU 129	Holds two half-rack products
	Auto-switcher / scaler	Kramer VP-440H2	Left half, strapped to the shelf; front to the doors
	70 V amplifier, 200 W	Extron XPA 2001-70V	Right half, bolted to the shelf; right-angle IEC cord at the rear
RU2	Vent panel, 1U	Middle Atlantic VT1	Air path between the shelves
RU3	Equipment shelf, 1U, 9-1/2" deep	Extron RSU 129	Netgear GS305P + VP-440H2 48 V PSU, hook-and-loop
RU4	Vent panel, 1U	Middle Atlantic VT1	—
RU5	Equipment shelf, 1U, 9-1/2" deep	Extron RSU 129	Furman SS-6B surge strip; cord up to P02 (2'-0" AFF)
RU6	Vent panel, 1U	Middle Atlantic VT1	—
RACK	6U 2-post open-frame desk rack	NavePoint 00406578	On the CAB-01 floor, base fastened to the bottom panel

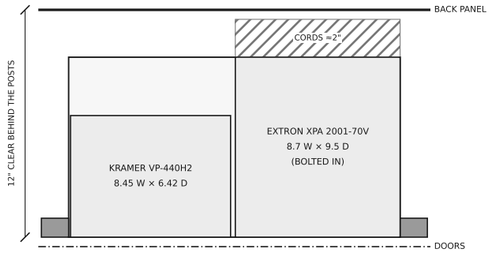
POWER & HEAT (ESTIMATED, EACH CABINET)

DEVICE	POWER	HEAT
Kramer VP-440H2 (incl. PoE to the WP-789T plate)	48 VDC external PSU	≈41 W
Extron XPA 2001-70V (96 W of speaker taps)	Internal PSU, 120 VAC	≈17 W
Netgear GS305P (PoE+ to the MLC Plus 100)	12 VDC external adapter	≈6 W
External PSU losses	—	≈5 W
TOTAL — surge strip on P02 (20 A circuit)		≈69 W (≈240 BTU/h)

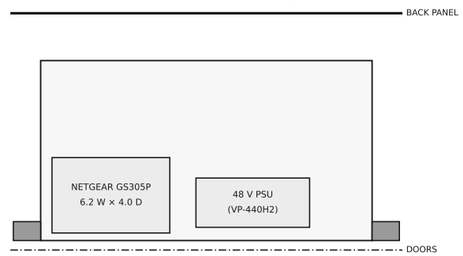
NOTES

1. Rack, shelves, vents, surge strip and all rack equipment are furnished and installed by FIT's AV Contractor. Cabinet requirements: AV-401.
2. Equipment depth: the XPA 2001-70V (9-1/2") plus its cords needs ≈11-1/2" behind the rack posts; keep ≥ 12" clear from the post face to the cabinet back panel.
3. Rack dimensions and post position are from the published listing; verify with the rack submittal.

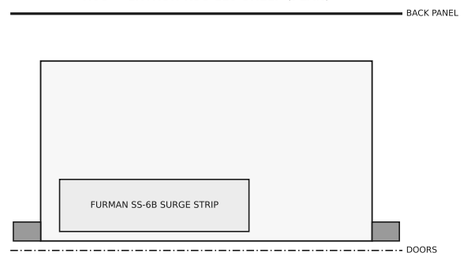
RU1 — EXTRON RSU 129 SHELF (PLAN)



RU3 — EXTRON RSU 129 SHELF (PLAN)



RU5 — EXTRON RSU 129 SHELF (PLAN)



2 SHELF PLANS

SCALE: 1-1/2" = 1'-0" · DOORS AT BOTTOM · POSTS AT THE FRONT OF THE RACK BASE

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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125 GAZZA BLVD
FARMINGDALE, NY 11735
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PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

AV EQUIPMENT RACK ELEVATION — TYPICAL A321 & A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

ENGINEER: JONATHAN YACKO

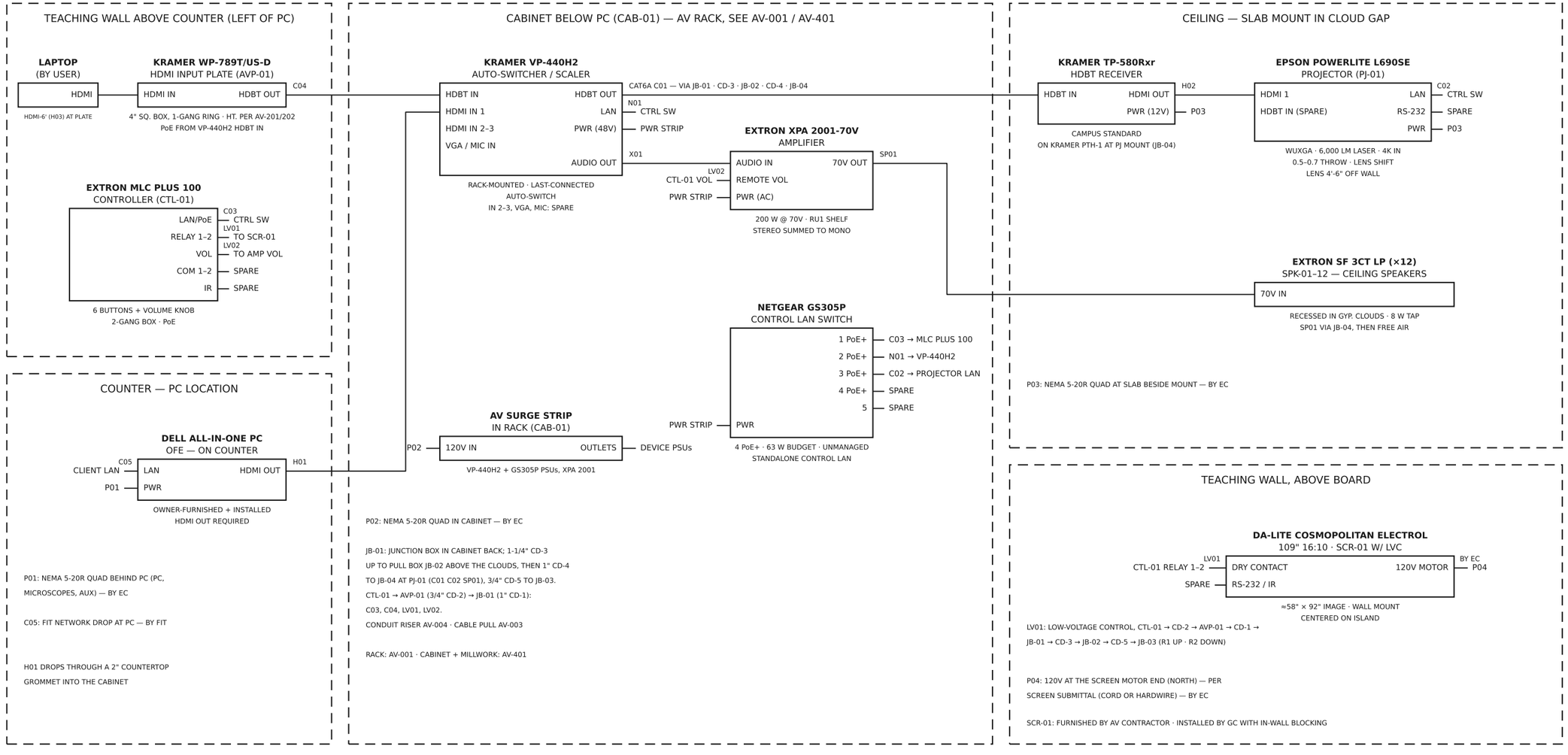
DRAWN BY: JY

SCALE: AS NOTED

SHEET NO:

AV-001

TYPICAL — WET TEACHING LAB A321 & DRY TEACHING LAB A309 (ONE SYSTEM PER ROOM)



GENERAL NOTES

A. AV equipment to be furnished and installed by FIT's AV Contractor (Adwar Video). Typical system for Wet Teaching Lab A321 and Dry Teaching Lab A309; one complete system per room.

B. Refer to the electrical drawings. GC to coordinate power and conduit with the electrical contractor.

C. See AV-501 (A309) and AV-502 (A321), cable schedule and EC infrastructure, for conduit sizing and quantity, boxes and receptacles. Device locations and heights: AV-101/102 and AV-201/202.

D. FIT's AV Contractor furnishes, installs, terminates and programs the AV equipment and low-voltage AV cabling, and furnishes the projection screen for installation by the GC. Owner furnishes and installs the PC.

CONTROL — EXTRON MLC PLUS 100 (CTL-01)

CONTROL	ACTION	PATH
ON	PROJECTOR ON + SCREEN DOWN	EPSON LAN (C02) · RELAY 2 → LVC (LV01)
OFF	PROJECTOR OFF + SCREEN UP	EPSON LAN (C02) · RELAY 1 → LVC (LV01)
BTN 1	PC (OVERRIDES AUTO-SWITCH)	VP-440H2 LAN (N01)
BTN 2	LAPTOP — HDMI PLATE (OVERRIDES AUTO-SWITCH)	VP-440H2 LAN (N01)
BTN 3	NOT USED	—
BTN 4	AUDIO MUTE (TOGGLE, LED ON WHEN MUTED)	VP-440H2 LAN (N01)
KNOB	PROGRAM VOLUME	VOL PORT → XPA 2001 (LV02)

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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FARMINGDALE, NY 11735
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sales@adwarvideo.com

PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

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3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

SYSTEM DIAGRAM —
TYPICAL A321 & A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

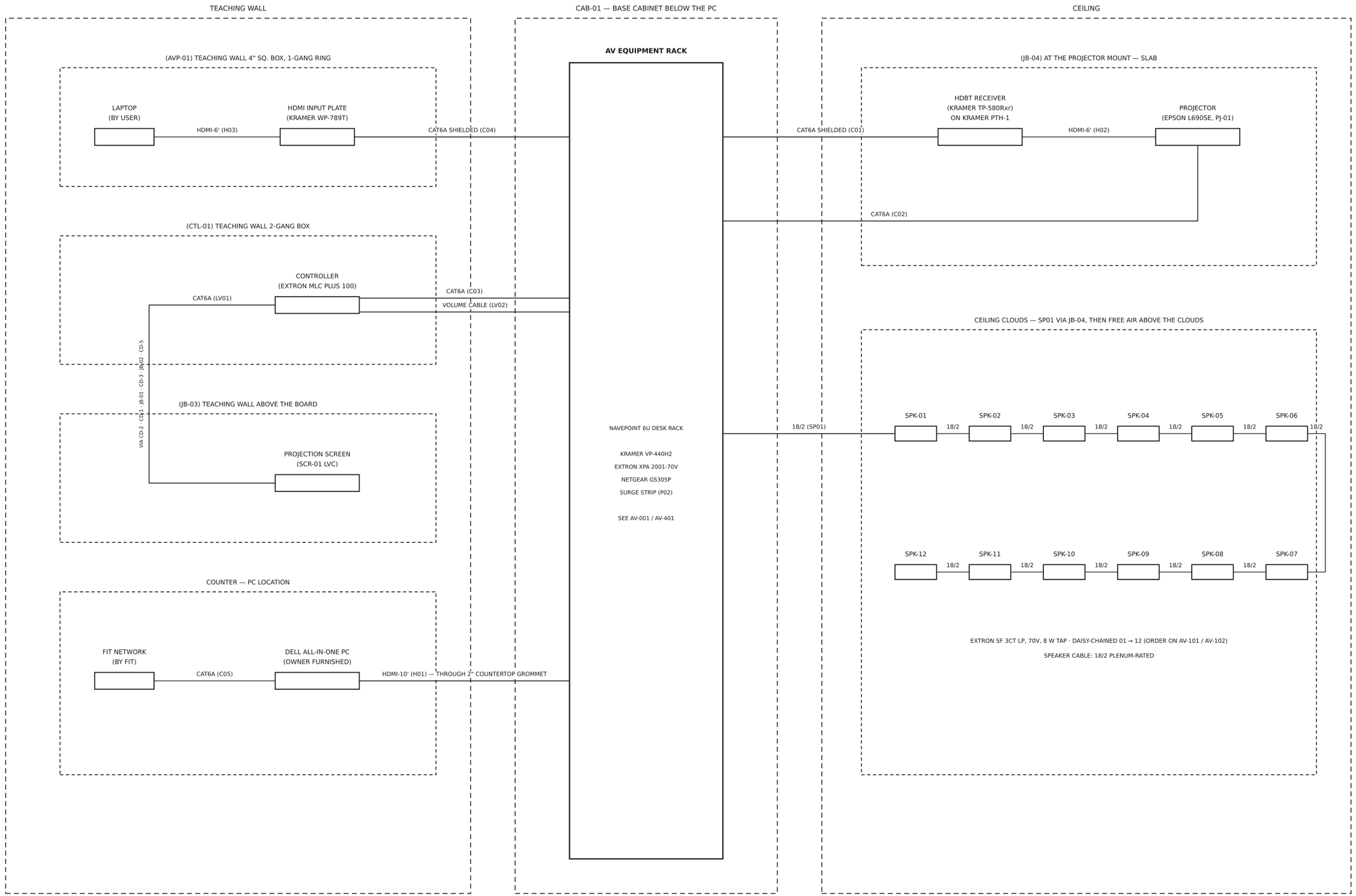
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-002



ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

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2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

CABLE PULL DIAGRAM — TYPICAL A321 & A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

ENGINEER: JONATHAN YACKO

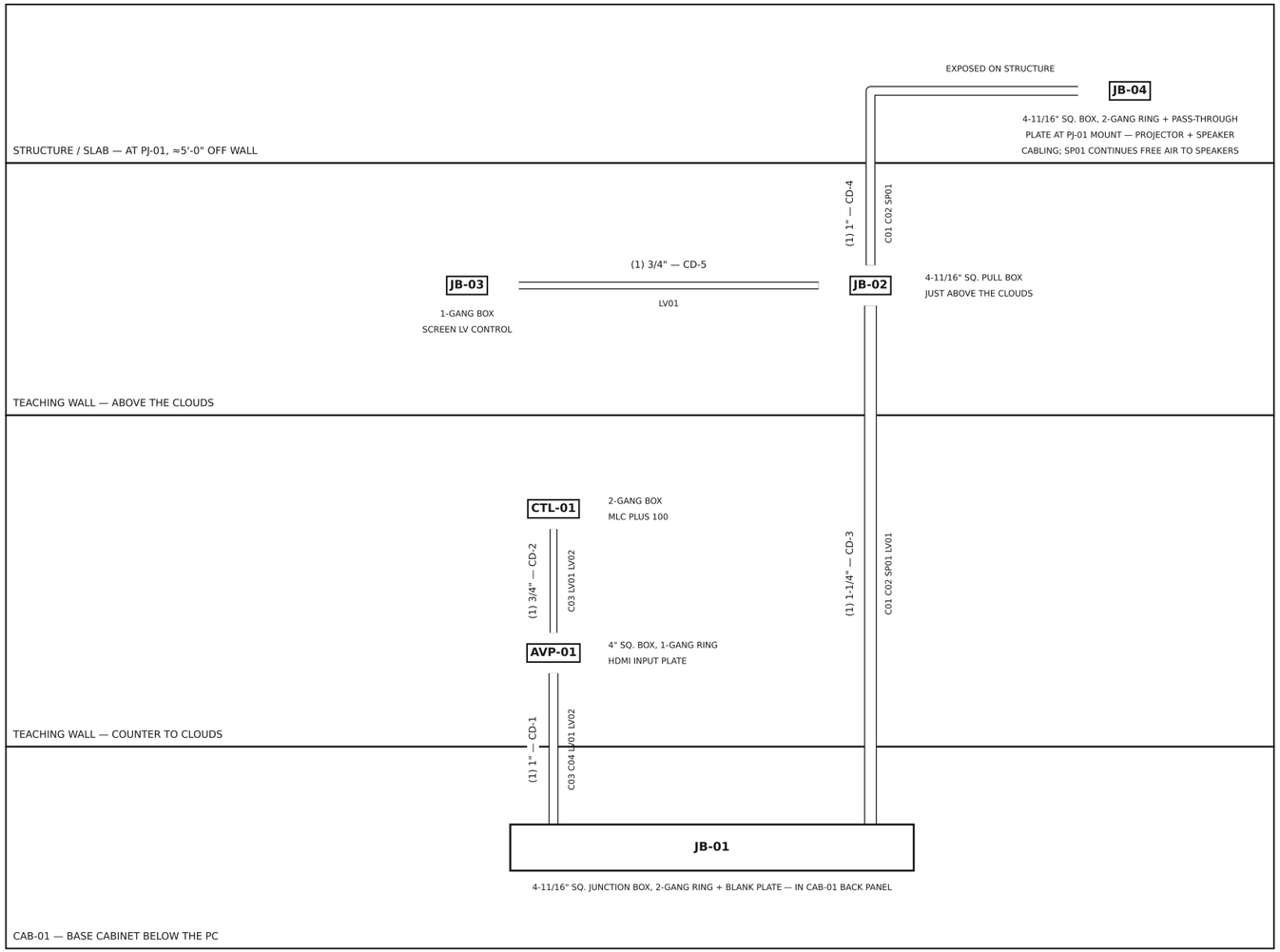
DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-003

ALL AV CONDUIT IS EMT, FURNISHED AND INSTALLED BY EC, AND STARTS AT JB-01 IN CAB-01 (TYP. BOTH ROOMS)



RISER NOTES

1. Conduit: EMT with a pull string and bushed ends, furnished and installed by the EC. Cables furnished, installed and terminated by FIT's AV Contractor.
2. No more than two 90° bends between pull boxes. JB-02 is the pull point for CD-3, CD-4 and CD-5.
3. CD-4 runs up the wall above the clouds and exposed on structure to JB-04 at the PJ-01 mount, keeping the projector and speaker cabling out of sight. SP01 continues free air in plenum-rated cable above the clouds from JB-04 to the speakers.
4. Power and data are by the EC / FIT per the electrical drawings and are not shown on this riser.
5. N.T.S. Box heights and locations: teaching-wall elevations AV-201 / AV-202.

CONDUIT SCHEDULE (EMT, PULL STRING, BUSHED ENDS — FURNISHED AND INSTALLED BY EC)

CONDUIT	SIZE	FROM → TO	ROUTE	CABLES (BY AV CONTR.)	FILL	A321	A309
CD-1	1"	AVP-01 → JB-01	In wall; offset into the CAB-01 bay	C03 C04 LV01 LV02	≈27%	≈1'-5"	≈1'-7"
CD-2	3/4"	CTL-01 → AVP-01	In wall, box to box	C03 LV01 LV02	≈31%	≈2"	≈1"
CD-3	1-1/4"	JB-01 → JB-02	In wall, straight riser	C01 C02 SP01 LV01	≈16%	≈5'-11"	≈5'-7"
CD-4	1"	JB-02 → JB-04	Up the wall above the clouds, then exposed on structure to JB-04 at PJ-01 (E-201 KN 12)	C01 C02 SP01	≈19%	≈12'-11"	≈13'-0"
CD-5	3/4"	JB-02 → JB-03	In wall above the clouds	LV01	≈12%	≈8"	≈6"

Fill from typical cable diameters (Cat 6A shielded ≈0.30", Cat 6A ≈0.29", 18/2 ≈0.20"); 40% max. Lengths approximate (scaled) — verify in field.

AV BOXES (BY EC)

BOX	TYPE	A321	A309	CONDUIT
AVP-01	4" sq. × 2-1/8", 1-gang ring	3'-3"	3'-5"	CD-1, 2
CTL-01	2-gang, 2-1/2" min. deep	3'-9"	3'-5"	CD-2
JB-01	4-11/16" sq. × 2-1/8", 2-gang ring	2'-0"	2'-0"	CD-1, 3
JB-02	4-11/16" sq. × 2-1/8", blank cover	8'-4"	8'-0"	CD-3, 4, 5
JB-03	1-gang, 2-1/8" deep	8'-4"	8'-0"	CD-5
JB-04	4-11/16" sq., 2-gang ring + pass-through plate	At slab	At slab	CD-4

Heights to box center AFF.

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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FARMINGDALE, NY 11735
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FX: 631-777-7011
http://www.adwarvideo.com
sales@adwarvideo.com

PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

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SHEET TITLE:

AV CONDUIT RISER DIAGRAM — TYPICAL A321 & A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

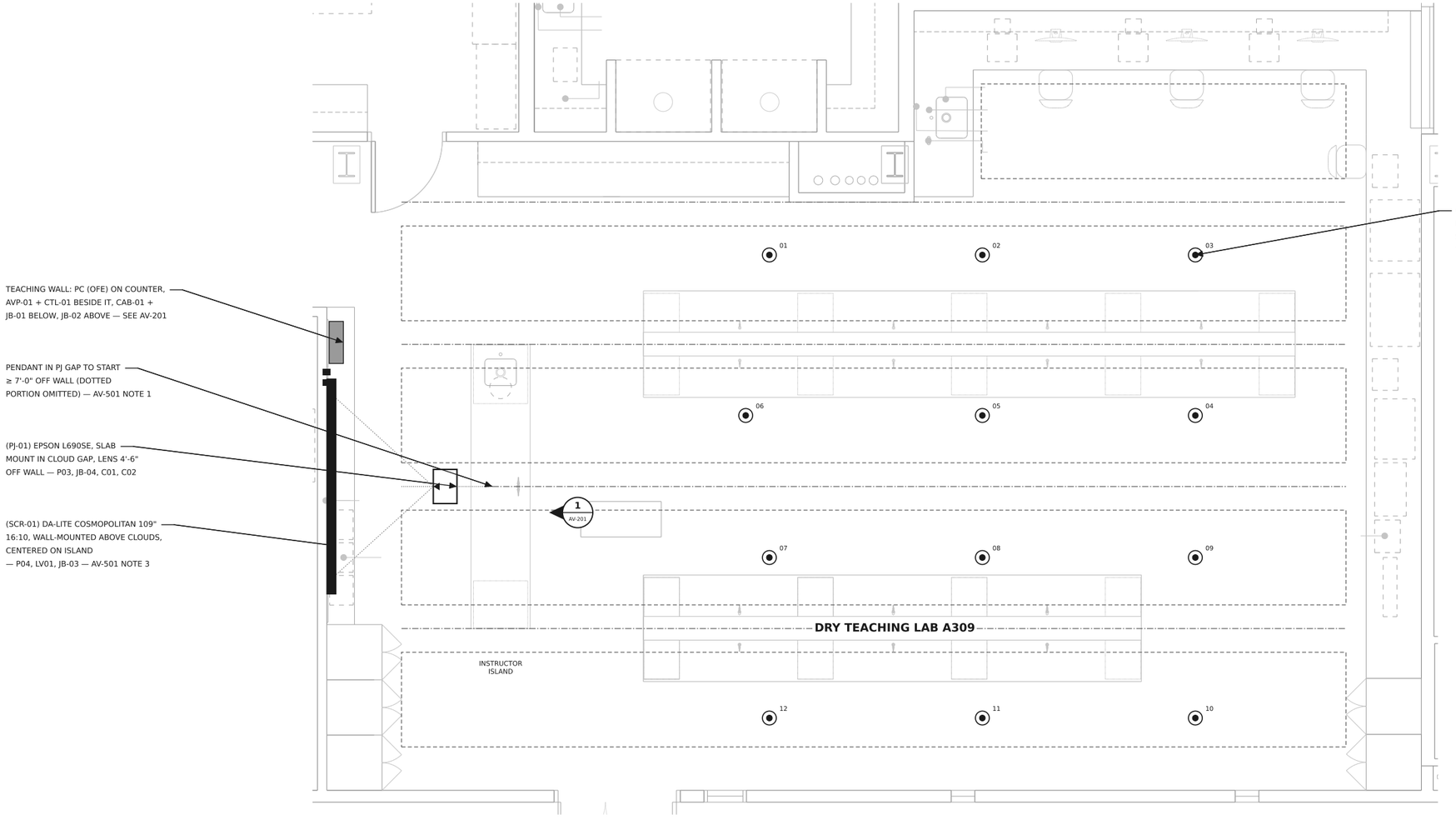
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-004



1 AV PLAN — DRY TEACHING LAB A309

SCALE: 3/16" = 1'-0" · BACKGROUND: SAMUEL ANDERSON A-12 EQUIPMENT PLAN (BID SET 2026.08.19), SCREENED; CLOUDS / PENDANTS FROM A-11 (DASHED = ABOVE)

DEVICE SCHEDULE

TAG	DEVICE	MOUNT / LOCATION	BOX / CABLE	PWR
PJ-01	EPSON POWERLITE L690SE WUXGA 6,000 LM LASER; KRAMER TP-580Rxr ON PTH-1 AT MOUNT	SLAB, CHIEF RPMAU + CMS0305 + CMA110; LENS 4'-6" OFF WALL, ≈7'-1" AFF	JB-04 · C01 C02	P03
SCR-01	DA-LITE COSMOPOLITAN ELECTROL 109" 16:10 (57-1/2" × 92"), MATTE WHITE, BUILT-IN LVC + SILENT MOTOR	TEACHING WALL; CASE ≈8'-1" AFF; IMAGE 3'-1"–7'-11"; FURNISHED BY AV CONTRACTOR, INSTALLED BY GC W/ IN-WALL BLOCKING	JB-03 · LV01	P04
SPK-01–12	EXTRON SF 3CT LP 70V, 8 W TAP	RECESSED IN GYPSUM CLOUDS; 7.6" DIA. CUTOUT BY GC	SP01	AMP
CTL-01	EXTRON MLC PLUS 100 (6 BUTTONS + VOLUME)	TEACHING WALL, 3'-5" AFF CTR, BESIDE AVP-01 (SOUTH SIDE)	2-GANG · C03 LV01 LV02	PoE
AVP-01	KRAMER WP-789T/US-D HDMI PLATE	TEACHING WALL, 3'-5" AFF CTR, LEFT OF PC	4" SQ. · C04	PoE
CAB-01	AV RACK (NAVEPOINT 6U DESK RACK): VP-440H2, XPA 2001-70V, GS305P, SURGE STRIP — AV-401	MW-46 BASE CABINET BELOW PC, ON THE CABINET FLOOR	JB-01	P02
PC	DELL AIO (OFE)	ON COUNTER, NORTH OF SCREEN	C05 · H01	P01

LEGEND

- CEILING SPEAKER (NUMBER = SP01 ORDER)
- GYPSUM CLOUD ABOVE (A-11)
- PENDANT FIXTURE BETWEEN CLOUDS (A-11)
- SCREEN CASE (WALL)

NOTES

1. See architectural drawings for location of devices.
2. GC / carpenter to cut holes for the ceiling recessed speakers (SPK-01–12): 7.6" dia. in the gypsum clouds at the locations shown; keep clear of cloud framing.
3. GC to install the screen (SCR-01, furnished by FIT's AV Contractor), including blocking in the wall to mount the screen housing. EC to provide power (P04).
4. Boxes, conduit and receptacles: AV-501; conduit riser AV-004. Heights and teaching-wall layout: AV-201. Coordination notes 1–7: AV-501.

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

ADWAR VIDEO
125 GAZZA BLVD
FARMINGDALE, NY 11735
PH: 631-777-7070
FX: 631-777-7011
http://www.adwarvideo.com
sales@adwarvideo.com

PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
DRY TEACHING LAB A309

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

AV PLAN — DRY TEACHING LAB A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

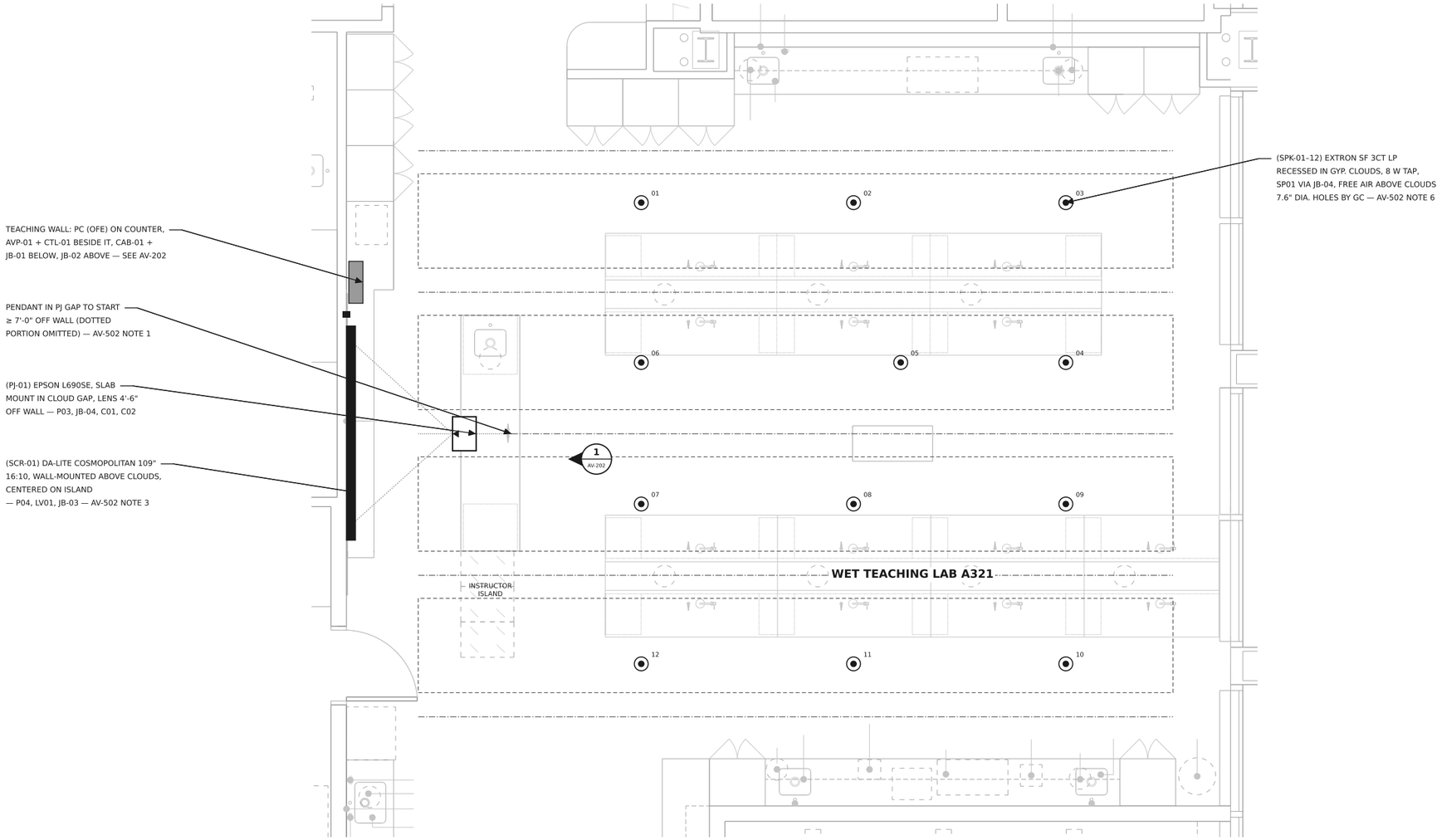
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: AS NOTED

SHEET NO:

AV-101



1 AV PLAN — WET TEACHING LAB A321

SCALE: 3/16" = 1'-0" · BACKGROUND: SAMUEL ANDERSON A-12 EQUIPMENT PLAN (BID SET 2026.08.19), SCREENED; CLOUDS / PENDANTS FROM A-11 (DASHED = ABOVE)

DEVICE SCHEDULE

TAG	DEVICE	MOUNT / LOCATION	BOX / CABLE	PWR
PJ-01	EPSON POWERLITE L690SE WUXGA 6,000 LM LASER; KRAMER TP-580Rxr ON PTH-1 AT MOUNT	SLAB, CHIEF RPMAU + CMS0305 + CMA110; LENS 4'-6" OFF WALL, ≈7'-5" AFF	JB-04 · C01 C02	P03
SCR-01	DA-LITE COSMOPOLITAN ELECTROL 109" 16:10 (57-1/2" × 92"), MATTE WHITE, BUILT-IN LVC + SILENT MOTOR	TEACHING WALL; CASE ≈8'-1" AFF; IMAGE 3'-1"–7'-11"; FURNISHED BY AV CONTRACTOR, INSTALLED BY GC W/ IN-WALL BLOCKING	JB-03 · LV01	P04
SPK-01–12	EXTRON SF 3CT LP 70V, 8 W TAP	RECESSED IN GYPSUM CLOUDS; 7.6" DIA. CUTOUT BY GC	SP01	AMP
CTL-01	EXTRON MLC PLUS 100 (6 BUTTONS + VOLUME)	TEACHING WALL, 3'-9" AFF CTR, DIRECTLY ABOVE AVP-01	2-GANG · C03 LV01 LV02	PoE
AVP-01	KRAMER WP-789T/US-D HDMI PLATE	TEACHING WALL, 3'-3" AFF CTR, LEFT OF PC	4" SQ. · C04	PoE
CAB-01	AV RACK (NAVEPOINT 6U DESK RACK): VP-440H2, XPA 2001-70V, GS305P, SURGE STRIP — AV-401	MW-17 BASE CABINET BELOW PC, ON THE CABINET FLOOR	JB-01	P02
PC	DELL AIO (OFE)	ON COUNTER, NORTH OF SCREEN	C05 · H01	P01

LEGEND

- CEILING SPEAKER (NUMBER = SP01 ORDER)
- GYPSUM CLOUD ABOVE (A-11)
- PENDANT FIXTURE BETWEEN CLOUDS (A-11)
- SCREEN CASE (WALL)

NOTES

1. See architectural drawings for location of devices.
2. GC / carpenter to cut holes for the ceiling recessed speakers (SPK-01–12): 7.6" dia. in the gypsum clouds at the locations shown; keep clear of cloud framing.
3. GC to install the screen (SCR-01, furnished by FIT's AV Contractor), including blocking in the wall to mount the screen housing. EC to provide power (P04).
4. Boxes, conduit and receptacles: AV-502; conduit riser AV-004. Heights and teaching-wall layout: AV-202. Coordination notes 1–6: AV-502.

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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http://www.adwarvideo.com
sales@adwarvideo.com

PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
WET TEACHING LAB A321

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

AV PLAN — WET TEACHING LAB A321

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

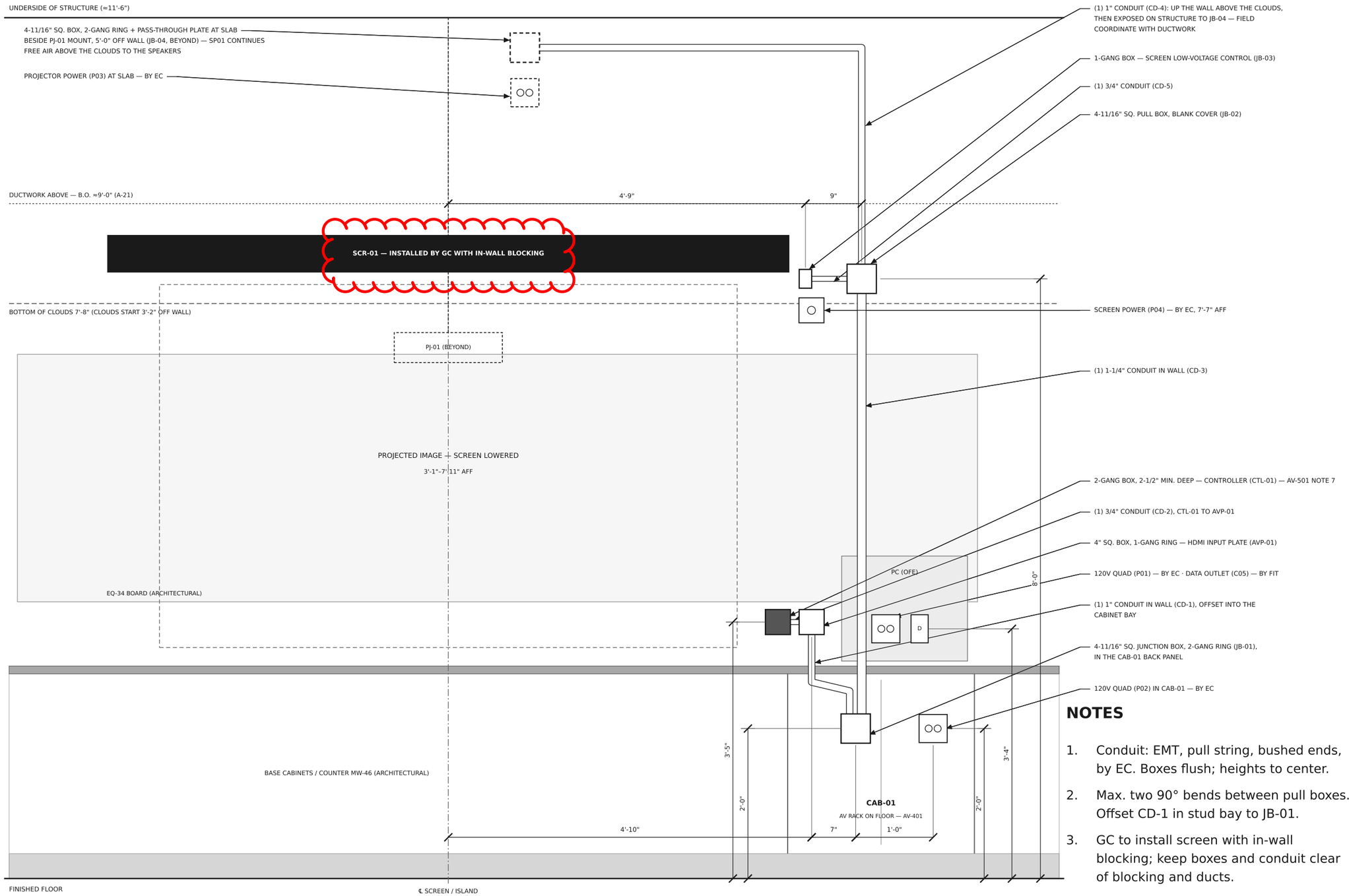
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: AS NOTED

SHEET NO:

AV-102



NOTES

1. Conduit: EMT, pull string, bushed ends, by EC. Boxes flush; heights to center.
2. Max. two 90° bends between pull boxes. Offset CD-1 in stud bay to JB-01.
3. GC to install screen with in-wall blocking; keep boxes and conduit clear of blocking and ducts.
4. See architectural drawings for device locations. Conduit sizes: riser AV-004.

1 **TEACHING WALL — AV ELEVATION — DRY TEACHING LAB A309**

SCALE: 3/4" = 1'-0" · LOOKING WEST (SOUTH AT LEFT) · ARCHITECTURE SIMPLIFIED FROM A-21 / A-11

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

ADWAR VIDEO
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PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
DRY TEACHING LAB A309

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
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3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

TEACHING WALL — AV ELEVATION

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

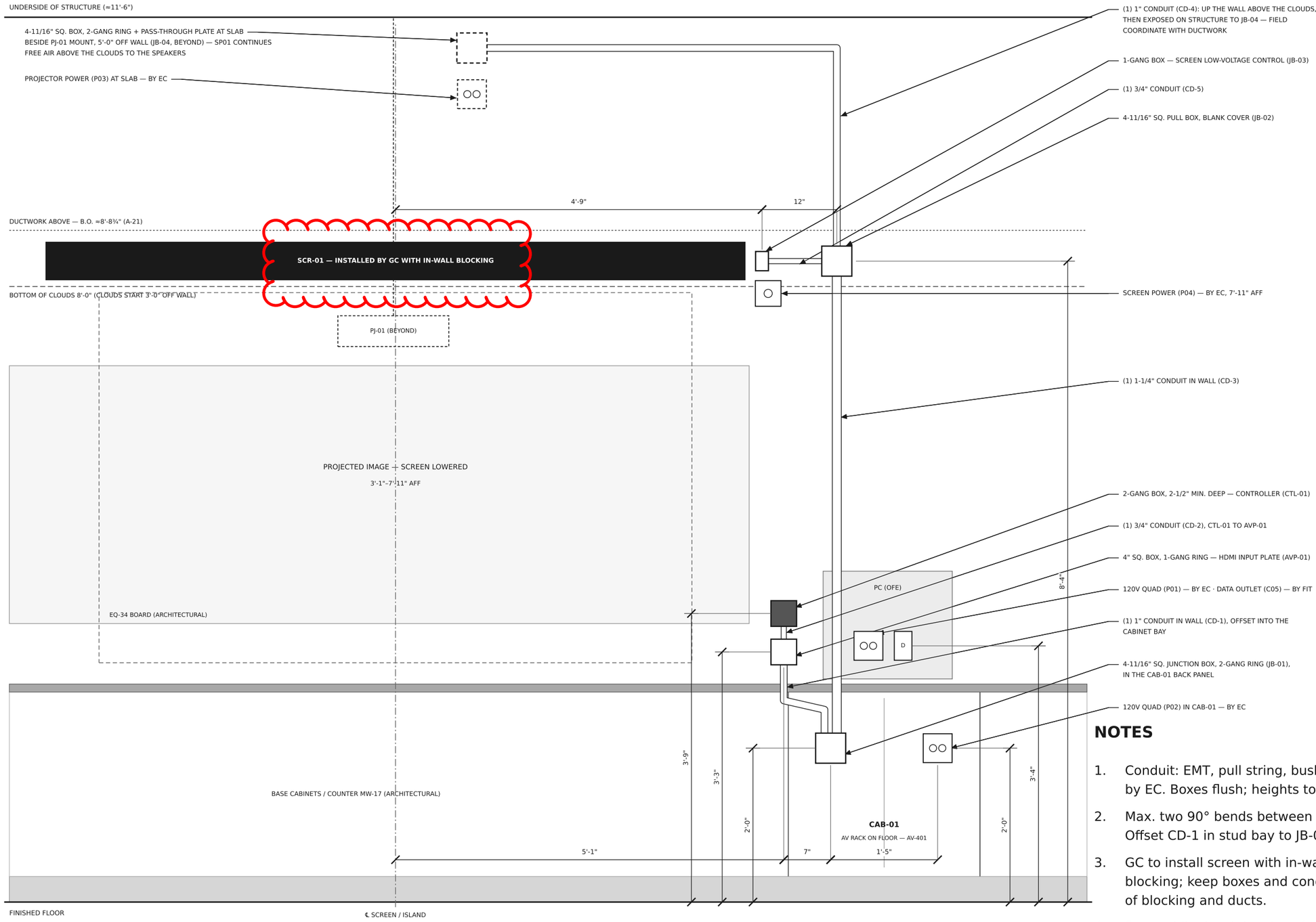
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: 3/4" = 1'-0"

SHEET NO:

AV-201



NOTES

1. Conduit: EMT, pull string, bushed ends, by EC. Boxes flush; heights to center.
2. Max. two 90° bends between pull boxes. Offset CD-1 in stud bay to JB-01.
3. GC to install screen with in-wall blocking; keep boxes and conduit clear of blocking and ducts.
4. See architectural drawings for device locations. Conduit sizes: riser AV-004.

1 **TEACHING WALL — AV ELEVATION — WET TEACHING LAB A321**

SCALE: 3/4" = 1'-0" · LOOKING WEST (SOUTH AT LEFT) · ARCHITECTURE SIMPLIFIED FROM A-21 / A-11

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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PROJECT MANAGER:

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PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
WET TEACHING LAB A321

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
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3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

TEACHING WALL — AV ELEVATION

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

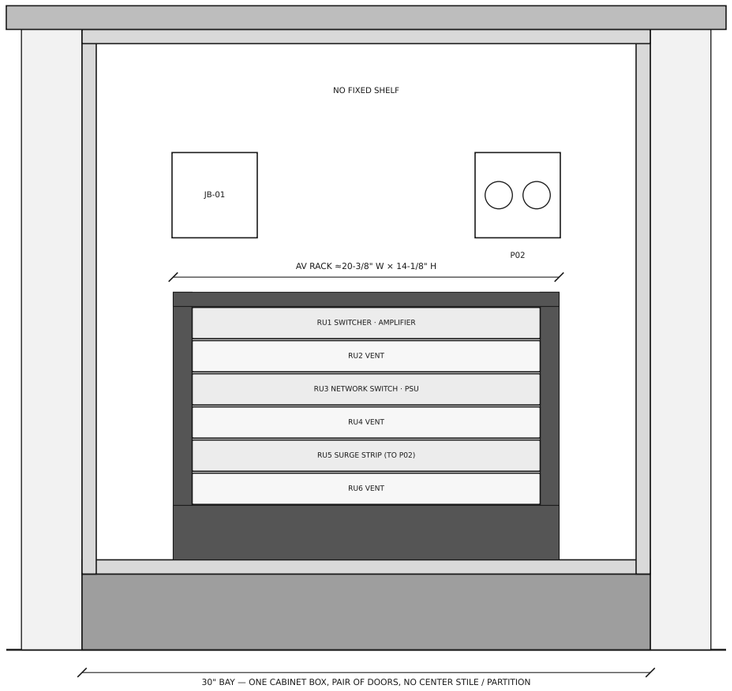
ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: 3/4" = 1'-0"

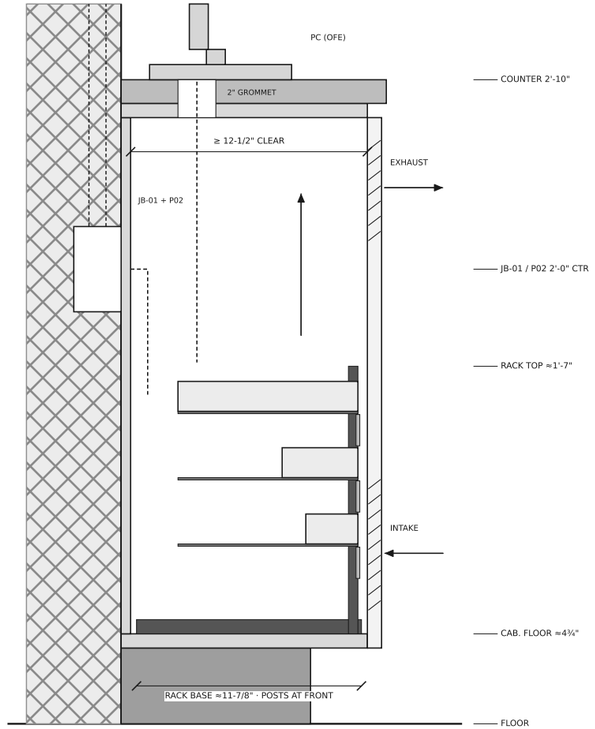
SHEET NO:

AV-202



1 **CAB-01 FRONT ELEVATION**

SCALE: 1-1/2" = 1'-0" · DOORS REMOVED · RACK LAYOUT ON AV-001



2 **SECTION THROUGH CAB-01**

SCALE: 1-1/2" = 1'-0" · WALL AT LEFT · LOUVERED / VENTED DOORS

MILLWORK REQUIREMENTS — CAB-01 (A321 MW-17 · A309 MW-46)

M1. One 30" cabinet box with a pair of doors; no center partition or fixed center stile (≥ 21" clear width for the AV rack).

M2. Clear interior depth ≥ 12-1/2" from the inside face of the doors to the back panel; clear interior height ≥ 24".

M3. Solid bottom panel; the AV rack sits on it and is fastened to it by FIT's AV Contractor. No fixed shelf, drawer or plumbing in the bay.

M4. Louvered or vented doors, or a grille low and high in each door (≥ 30 sq in free area each). AV equipment heat ≈69 W; no fan required.

M5. Back-panel cutouts at JB-01 and P02 (2-gang, 2'-0" AFF ctr; positions on AV-201 / AV-202).

M6. 2" grommet in the countertop behind the PC.

AV RACK — FURNISHED AND INSTALLED BY FIT'S AV CONTRACTOR

NavePoint 6U 2-post open-frame desk rack, threaded, heavy duty (00406578), ≈20-3/8" W × 11-7/8" D × 14-1/8" H, set on and fastened to the cabinet bottom panel. Holds the AV switcher, amplifier, control network switch and a surge strip fed from P02. Rack dimensions are from the published listing; verify with the rack submittal.

GENERAL NOTES

A. Typical for A321 and A309. Cabinet location: AV-201 (A309) and AV-202 (A321). Rack layout: AV-001.

B. Cabinet dimensions assume a 14"-deep counter, 2'-10" top and 4" toe kick; confirm on the millwork shop drawings.

C. EC provides the JB-01 box, P02 receptacle and conduit per AV-501 / AV-502 and conduit riser AV-004.

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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PROJECT MANAGER:

TBD

PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
A321 + A309 (TYPICAL)

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
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4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

AV CABINET CAB-01 — TYPICAL A321 & A309

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: AS NOTED

SHEET NO:

AV-401

CABLE SCHEDULE — DRY TEACHING LAB A309

AV cabling furnished, installed and terminated by FIT's AV Contractor in EC boxes / conduit. All patch cables Cat 6A.

RUN ID	FROM	TO	CABLE	FUNCTION	PATH	BY
FIELD RUNS (IN EC CONDUIT)						
C01	VP-440H2 HDBT OUT, CAB-01 (cabinet below PC)	TP-580Rxr at PJ-01 (slab, JB-04)	Cat 6A shielded (HDBT)	Video to projector	JB-01 · CD-3 · JB-02 · CD-4 · JB-04	FIT's AV Contractor
C02	GS305P port 4, CAB-01 (cabinet below PC)	PJ-01 LAN port	Cat 6A	Projector control (IP)	JB-01 · CD-3 · JB-02 · CD-4 · JB-04	FIT's AV Contractor
C03	GS305P port 1, CAB-01 (cabinet below PC)	CTL-01 MLC Plus 100 (teaching wall)	Cat 6A	Control + PoE	JB-01 · CD-1 · AVP-01 · CD-2	FIT's AV Contractor
C04	AVP-01 WP-789T HDBT OUT (teaching wall)	VP-440H2 HDBT IN, CAB-01 (cabinet below PC)	Cat 6A shielded (HDBT)	Laptop video + PoE to plate	CD-1 · JB-01	FIT's AV Contractor
C05	FIT network (IDF)	Data outlet beside P01, behind PC	Cat 6A	PC network	By FIT	FIT IT / vendor
SP01	XPA 2001-70V OUT, CAB-01 (cabinet below PC)	SPK-01 → 02 → … → 12 (serpentine)	18/2 plenum speaker	70V speaker line	JB-01 · CD-3 · JB-02 · CD-4 · JB-04 · free air	FIT's AV Contractor
LV01	CTL-01 MLC relays 1–2 (teaching wall)	SCR-01 LVC (JB-03)	Cat 6A	Screen up / down	CD-2 · CD-1 · JB-01 · CD-3 · JB-02 · CD-5	FIT's AV Contractor
LV02	CTL-01 MLC VOL port (teaching wall)	XPA 2001-70V remote volume, CAB-01 (cabinet below PC)	Extron volume cable (per MLC guide)	Program volume / mute	CD-2 · AVP-01 · CD-1 · JB-01	FIT's AV Contractor
POWER (BY EC) — ALL ON CIRCUITS NOT CONTROLLED BY THE nLIGHT PLUG-LOAD PACKS (E-201 KEY NOTE 11)						
P01	Branch circuit, 20A	NEMA 5-20R quad, wall behind PC, 3'-4" AFF	120 VAC	PC, microscopes, aux	—	EC
P02	Branch circuit, 20A	NEMA 5-20R quad in CAB-01, 2'-0" AFF	120 VAC	AV rack surge strip	—	EC
P03	Branch circuit, 20A	NEMA 5-20R quad at slab beside PJ-01 mount	120 VAC	Projector + TP-580Rxr PSU	—	EC
P04	Branch circuit, 20A	J-box / receptacle at SCR-01 north end, ≈7'-7" AFF	120 VAC	Screen motor	—	EC

EC INFRASTRUCTURE — BOXES, CONDUIT, POWER, SUPPORT (FURNISHED AND INSTALLED BY EC UNLESS NOTED)

TAG	ITEM	LOCATION / HEIGHT	SERVES	CONNECTS
BOXES (DEVICE PLATES, PANELS AND PASS-THROUGH PLATES BY FIT'S AV CONTRACTOR)				
AVP-01	4" sq. × 2-1/8" deep box, 1-gang ring	Teaching wall above counter, left of PC, 3'-5" AFF ctr	WP-789T HDMI plate	CD-1 to JB-01; CD-2 from CTL-01
CTL-01	2-gang box, 2-1/2" min. deep	Beside AVP-01 (south side), 3'-5" AFF ctr (top ≤ 48")	MLC Plus 100 controller	CD-2 to AVP-01
JB-01	4-11/16" sq. × 2-1/8" box, 2-gang ring + blank plate	In wall inside CAB-01 above the AV rack, 2'-0" AFF ctr (cabinet back cut by millwork)	Cable entry to the AV rack	CD-1 in; CD-3 out
JB-02	4-11/16" sq. × 2-1/8" pull box, blank cover	Teaching wall just above the clouds, ≈8'-0" AFF, directly above JB-01	Pull point	CD-3 in; CD-4, CD-5 out
JB-03	1-gang box, 2-1/8" deep	Teaching wall at SCR-01 north end, ≈8'-0" AFF	LV01 to screen LVC	CD-5 from JB-02
JB-04	4-11/16" sq. box, 2-gang ring + pass-through plate	At slab beside the PJ-01 mount, 5'-0" off wall	C01, C02 to PJ-01; SP01 free air to speakers	CD-4 from JB-02
CONDUIT (EMT; PULL STRING IN EACH; BUSHED ENDS) — CONDUIT RISER AV-004				
CD-1	1" EMT (in wall)	AVP-01 → JB-01 (≈1'-7")	C03, C04, LV01, LV02	Fill ≈27%
CD-2	3/4" EMT (in wall)	CTL-01 → AVP-01 (≈1")	C03, LV01, LV02	Fill ≈31%
CD-3	1-1/4" EMT (in wall)	JB-01 → JB-02 (≈5'-7")	C01, C02, SP01, LV01	Fill ≈16%
CD-4	1" EMT, in wall + exposed on structure	JB-02 → JB-04 (≈13'-0")	C01, C02, SP01	Fill ≈19%
CD-5	3/4" EMT (in wall)	JB-02 → JB-03 (≈6")	LV01	Fill ≈12%
POWER / DATA / SUPPORT / COORDINATION				
P01–P04	NEMA 5-20R quads (P04 per screen submittal)	See cable schedule	AV power	Uncontrolled circuits
C05	Cat 6A data outlet (FIT cabling vendor)	Beside P01 behind the PC	PC network	By FIT
DEL	Delete E-201 "PROJECTOR" receptacle + data and A-11 "PJ"	At ≈9' off the board wall (architect placeholder)	Replaced by P03 / JB-04	EC / Architect
CAB-01	Base cabinet: one 30" box, no center stile, vented doors, cutouts, grommet (AV-401)	MW-46 bay below the PC	AV rack on cabinet floor	Millwork; rack by AV Contractor
SCR-01	Install screen (furnished by AV Contractor); blocking in wall to mount the screen housing	Teaching wall above the clouds, case ≈8'-1"–8'-7" AFF	Projection screen	GC
SPK	Cut 7.6" dia. holes in the gypsum clouds for recessed speakers SPK-01–12	Locations on AV-101	Ceiling speakers	GC / carpenter
SUP	Chief CMA110 ceiling plate anchored to the slab for the PJ-01 mount	Slab above PJ-01	Projector	AV Contractor

COORDINATION NOTES — DRY TEACHING LAB A309

1. Projector PJ-01 hangs in the 2-ft gap between clouds on the island centerline. Start the A-11 pendant fixture in this gap ≥ 7'-0" off the board wall so PJ-01 and its mount clear it. [Architect / EC]
2. Delete the projector placeholder: A-11 "PJ" and the E-201 "PROJECTOR" receptacle + data at ≈9' off the board wall. PJ-01 power and cabling are at P03 / JB-04, ≈5' off the wall. [EC]
3. GC to install SCR-01 (Da-Lite Cosmopolitan Electrol 109", furnished by FIT's AV Contractor) on the board wall above the 7'-8" cloud plane, case ≈8'-1"–8'-7" AFF. Include blocking in the wall to mount the screen housing over its ≈9'-1" length. Keep ductwork clear of the wall to ≈8'-8" over the case length (A-21 duct bottom ≈9'-0" (ducts 9'-3")). EC provides P04 at the north (motor) end. [GC / MEP / EC]
4. Millwork CAB-01 (MW-46 bay below the PC): one 30" cabinet box with a pair of doors and no center partition or stile, ≥ 21" clear width and ≥ 12-1/2" clear depth for the AV rack, no fixed shelf, louvered or vented doors, back-panel cutouts at JB-01 and P02 (2'-0" AFF), and a 2" countertop grommet behind the PC. See AV-401. [Millwork]
5. All AV receptacles (P01–P04) on circuits NOT switched by the nLight plug-load packs that E-201 key note 11 puts on the bench receptacles. [EC]
6. GC / carpenter to cut 7.6" dia. holes in the gypsum clouds for recessed speakers SPK-01–12 at the locations on AV-101; keep the holes clear of cloud framing. [GC]
7. AVP-01 + CTL-01 sit side by side at 3'-5" in the band between the counter backsplash and the EQ-34 board bottom (≈3'-8"). Keep the backsplash ≤ 4" high and the board bottom ≥ 3'-8" AFF. [Architect / millwork]

GENERAL NOTES

A. Refer to the electrical drawings; GC to coordinate power and conduit. EC provides boxes, conduit, pull strings, receptacles and branch circuits per this sheet. FIT provides the PC and its network drop.

B. Dimensions scaled from the architect's bid set (A-11, A-12, A-21) and E-201; verify in the field before rough-in.

C. See architectural drawings for location of devices. AV plan AV-101; AV elevation AV-201; conduit riser AV-004; cable pull AV-003; AV cabinet AV-401.

D. SP01 runs in CD-3 and CD-4 to JB-04 at the projector, then free air in plenum-rated cable above the clouds.

ADWAR VIDEO
PROFESSIONAL AV SERVICES

AUDIOVISUAL CONTRACTOR:

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PROJECT MANAGER:

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PROJECT:

FIT SCIENCE LAB RENOVATION
DUBINSKY CENTER, 3RD FL
DRY TEACHING LAB A309

340 8TH AVENUE
NEW YORK, NY 10001

REVISION LIST:

REV.	DESCRIPTION	DATE
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3	ISSUED FOR BID	11/13/26
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SHEET TITLE:

CABLE SCHEDULE, EC INFRASTRUCTURE & NOTES

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-501

CABLE SCHEDULE — WET TEACHING LAB A321

AV cabling furnished, installed and terminated by FIT's AV Contractor in EC boxes / conduit. All patch cables Cat 6A.

RUN ID	FROM	TO	CABLE	FUNCTION	PATH	BY
FIELD RUNS (IN EC CONDUIT)						
C01	VP-440H2 HDBT OUT, CAB-01 (cabinet below PC)	TP-580Rxr at PJ-01 (slab, JB-04)	Cat 6A shielded (HDBT)	Video to projector	JB-01 · CD-3 · JB-02 · CD-4 · JB-04	FIT's AV Contractor
C02	GS305P port 4, CAB-01 (cabinet below PC)	PJ-01 LAN port	Cat 6A	Projector control (IP)	JB-01 · CD-3 · JB-02 · CD-4 · JB-04	FIT's AV Contractor
C03	GS305P port 1, CAB-01 (cabinet below PC)	CTL-01 MLC Plus 100 (teaching wall)	Cat 6A	Control + PoE	JB-01 · CD-1 · AVP-01 · CD-2	FIT's AV Contractor
C04	AVP-01 WP-789T HDBT OUT (teaching wall)	VP-440H2 HDBT IN, CAB-01 (cabinet below PC)	Cat 6A shielded (HDBT)	Laptop video + PoE to plate	CD-1 · JB-01	FIT's AV Contractor
C05	FIT network (IDF)	Data outlet beside P01, behind PC	Cat 6A	PC network	By FIT	FIT IT / vendor
SP01	XPA 2001-70V OUT, CAB-01 (cabinet below PC)	SPK-01 → 02 → … → 12 (serpentine)	18/2 plenum speaker	70V speaker line	JB-01 · CD-3 · JB-02 · CD-4 · JB-04 · free air	FIT's AV Contractor
LV01	CTL-01 MLC relays 1–2 (teaching wall)	SCR-01 LVC (JB-03)	Cat 6A	Screen up / down	CD-2 · CD-1 · JB-01 · CD-3 · JB-02 · CD-5	FIT's AV Contractor
LV02	CTL-01 MLC VOL port (teaching wall)	XPA 2001-70V remote volume, CAB-01 (cabinet below PC)	Extron volume cable (per MLC guide)	Program volume / mute	CD-2 · AVP-01 · CD-1 · JB-01	FIT's AV Contractor
POWER (BY EC) — ALL ON CIRCUITS NOT CONTROLLED BY THE nLIGHT PLUG-LOAD PACKS (E-201 KEY NOTE 11)						
P01	Branch circuit, 20A	NEMA 5-20R quad, wall behind PC, 3'-4" AFF	120 VAC	PC, microscopes, aux	—	EC
P02	Branch circuit, 20A	NEMA 5-20R quad in CAB-01, 2'-0" AFF	120 VAC	AV rack surge strip	—	EC
P03	Branch circuit, 20A	NEMA 5-20R quad at slab beside PJ-01 mount	120 VAC	Projector + TP-580Rxr PSU	—	EC
P04	Branch circuit, 20A	J-box / receptacle at SCR-01 north end, ≈7'-11" AFF	120 VAC	Screen motor	—	EC

EC INFRASTRUCTURE — BOXES, CONDUIT, POWER, SUPPORT (FURNISHED AND INSTALLED BY EC UNLESS NOTED)

TAG	ITEM	LOCATION / HEIGHT	SERVES	CONNECTS
BOXES (DEVICE PLATES, PANELS AND PASS-THROUGH PLATES BY FIT'S AV CONTRACTOR)				
AVP-01	4" sq. × 2-1/8" deep box, 1-gang ring	Teaching wall above counter, left of PC, 3'-3" AFF ctr	WP-789T HDMI plate	CD-1 to JB-01; CD-2 from CTL-01
CTL-01	2-gang box, 2-1/2" min. deep	Directly above AVP-01, 3'-9" AFF ctr (top ≤ 48")	MLC Plus 100 controller	CD-2 to AVP-01
JB-01	4-11/16" sq. × 2-1/8" box, 2-gang ring + blank plate	In wall inside CAB-01 above the AV rack, 2'-0" AFF ctr (cabinet back cut by millwork)	Cable entry to the AV rack	CD-1 in; CD-3 out
JB-02	4-11/16" sq. × 2-1/8" pull box, blank cover	Teaching wall just above the clouds, ≈8'-4" AFF, directly above JB-01	Pull point	CD-3 in; CD-4, CD-5 out
JB-03	1-gang box, 2-1/8" deep	Teaching wall at SCR-01 north end, ≈8'-4" AFF	LV01 to screen LVC	CD-5 from JB-02
JB-04	4-11/16" sq. box, 2-gang ring + pass-through plate	At slab beside the PJ-01 mount, 5'-0" off wall	C01, C02 to PJ-01; SP01 free air to speakers	CD-4 from JB-02
CONDUIT (EMT; PULL STRING IN EACH; BUSHED ENDS) — CONDUIT RISER AV-004				
CD-1	1" EMT (in wall)	AVP-01 → JB-01 (≈1'-5")	C03, C04, LV01, LV02	Fill ≈27%
CD-2	3/4" EMT (in wall)	CTL-01 → AVP-01 (≈2")	C03, LV01, LV02	Fill ≈31%
CD-3	1-1/4" EMT (in wall)	JB-01 → JB-02 (≈5'-11")	C01, C02, SP01, LV01	Fill ≈16%
CD-4	1" EMT, in wall + exposed on structure	JB-02 → JB-04 (≈12'-11")	C01, C02, SP01	Fill ≈19%
CD-5	3/4" EMT (in wall)	JB-02 → JB-03 (≈8")	LV01	Fill ≈12%
POWER / DATA / SUPPORT / COORDINATION				
P01–P04	NEMA 5-20R quads (P04 per screen submittal)	See cable schedule	AV power	Uncontrolled circuits
C05	Cat 6A data outlet (FIT cabling vendor)	Beside P01 behind the PC	PC network	By FIT
DEL	Delete E-201 "PROJECTOR" receptacle + data and A-11 "PJ"	At ≈9' off the board wall (architect placeholder)	Replaced by P03 / JB-04	EC / Architect
CAB-01	Base cabinet: one 30" box, no center stile, vented doors, cutouts, grommet (AV-401)	MW-17 bay below the PC	AV rack on cabinet floor	Millwork; rack by AV Contractor
SCR-01	Install screen (furnished by AV Contractor); blocking in wall to mount the screen housing	Teaching wall above the clouds, case ≈8'-1"–8'-7" AFF	Projection screen	GC
SPK	Cut 7.6" dia. holes in the gypsum clouds for recessed speakers SPK-01–12	Locations on AV-102	Ceiling speakers	GC / carpenter
SUP	Chief CMA110 ceiling plate anchored to the slab for the PJ-01 mount	Slab above PJ-01	Projector	AV Contractor

COORDINATION NOTES — WET TEACHING LAB A321

1. Projector PJ-01 hangs in the 2-ft gap between clouds on the island centerline. Start the A-11 pendant fixture in this gap ≥ 7'-0" off the board wall so PJ-01 and its mount clear it. [Architect / EC]
2. Delete the projector placeholder: A-11 "PJ" and the E-201 "PROJECTOR" receptacle + data at ≈9' off the board wall. PJ-01 power and cabling are at P03 / JB-04, ≈5' off the wall. [EC]
3. GC to install SCR-01 (Da-Lite Cosmopolitan Electrol 109", furnished by FIT's AV Contractor) on the board wall above the 8'-0" cloud plane, case ≈8'-1"–8'-7" AFF. Include blocking in the wall to mount the screen housing over its ≈9'-1" length. Keep ductwork clear of the wall to ≈8'-8" over the case length (A-21 duct bottom ≈8'-8¾"). EC provides P04 at the north (motor) end. [GC / MEP / EC]
4. Millwork CAB-01 (MW-17 bay below the PC): one 30" cabinet box with a pair of doors and no center partition or stile, ≥ 21" clear width and ≥ 12-1/2" clear depth for the AV rack, no fixed shelf, louvered or vented doors, back-panel cutouts at JB-01 and P02 (2'-0" AFF), and a 2" countertop grommet behind the PC. See AV-401. [Millwork]
5. All AV receptacles (P01–P04) on circuits NOT switched by the nLight plug-load packs that E-201 key note 11 puts on the bench receptacles. [EC]
6. GC / carpenter to cut 7.6" dia. holes in the gypsum clouds for recessed speakers SPK-01–12 at the locations on AV-102; keep the holes clear of cloud framing. [GC]

GENERAL NOTES

A. Refer to the electrical drawings; GC to coordinate power and conduit. EC provides boxes, conduit, pull strings, receptacles and branch circuits per this sheet. FIT provides the PC and its network drop.

B. Dimensions scaled from the architect's bid set (A-11, A-12, A-21) and E-201; verify in the field before rough-in.

C. See architectural drawings for location of devices. AV plan AV-102; AV elevation AV-202; conduit riser AV-004; cable pull AV-003; AV cabinet AV-401.

D. SP01 runs in CD-3 and CD-4 to JB-04 at the projector, then free air in plenum-rated cable above the clouds.

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REVISION LIST:

REV.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	11/02/26
2	ISSUED FOR DESIGN REVIEW	11/04/26
3	ISSUED FOR BID	11/13/26
4	RACK, RISER + PULL ADDED	11/13/26

SHEET TITLE:

CABLE SCHEDULE, EC INFRASTRUCTURE & NOTES

ISSUED FOR BID
NOT FOR CONSTRUCTION

PROJECT #: Q57992

ENGINEER: JONATHAN YACKO

DRAWN BY: JY

SCALE: N.T.S.

SHEET NO:

AV-502