

**ADDENDUM
NO. 1**

October 19, 2021

**Portage Township School - Bid Package #2
PHS Learning Lab, Elementary Schools Media Centers, and Office Renovation
Portage IN, 46368**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated September 24, 2021 by Alliance Architects. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of page ADD 1-1 through ADD 1-2 and Addendum No. 1 from Alliance Architects dated October 18, 2021 and consisting of 4 pages and 6 drawings.

A. SPECIFICATION SECTION 00 00 20 - TABLE OF CONTENTS

1. Delete:

- a. Specification Section 04 01 05 - Masonry Restoration and Cleaning

B. SPECIFICATION SECTION 00 43 50 - SUB AND PRODUCTS

1. Delete:

- a. Division 4 - Masonry: Specification Section 04 01 05 - Masonry Restoration and Cleaning

C. **SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY**

Under 3.03 Bid Categories make the following adjustments:

1. **BID CATEGORY NO. 1 - GENERAL TRADES**

a. **Delete:**

1. Specification Section 04 01 05 - Masonry Restoration and Cleaning

b. **Revise:**

1. Clarification No. 12:

Reference the Guideline Schedule and the Portage Township Schools Calendar for the work associated with the Portage High School Learning Lab, and the Elementary Schools Media Center Projects; the **Bid Category No. 1, 2, and 3 Contractors** shall include in the base bid working a second shift (3:30PM to 11:00PM) and/or at third shift (11:00PM to 6:00AM) for the duration of the projects. No work shall occur during regular school hours for these specific projects.

2. **BID CATEGORY NO. 2 - PLUMBING/HVAC**

a. **Revise:**

1. Clarification No. 10:

Reference the Guideline Schedule and the Portage Township Schools Calendar for the work associated with the Portage High School Learning Lab, and the Elementary Schools Media Center Projects; the **Bid Category No. 1, 2, and 3 Contractors** shall include in the base bid working a second shift (3:30PM to 11:00PM) and/or at third shift (11:00PM to 6:00AM) for the duration of the projects. No work shall occur during regular school hours for these specific projects.

2. **BID CATEGORY NO. 3 - ELECTRICAL**

a. **Revise:**

1. Clarification No. 9:

Reference the Guideline Schedule and the Portage Township Schools Calendar for the work associated with the Portage High School Learning Lab, and the Elementary Schools Media Center Projects; the **Bid Category No. 1, 2, and 3 Contractors** shall include in the base bid working a second shift (3:30PM to 11:00PM) and/or at third shift (11:00PM to 6:00AM) for the duration of the projects. No work shall occur during regular school hours for these specific projects.

ADDENDUM NO. 1

RE: LEARNING LAB, MEDIA CENTERS & OFFICE PROJECT
Portage Township Schools
Portage, Indiana

DATE: October 18, 2021

TO: All Bidders

You are hereby directed to make the following changes in the Project Manual and/or Drawings of the subject job and each item shall become fully a part of the Construction Documents as if originally written and/or shown:

1. **SPECIFICATIONS**; 04 01 05 MASONRY RESTORATION AND CLEANING: Delete this section in its entirety without replacement.
2. **SPECIFICATIONS**; 10 14 00 SIGNAGE; B. PRODUCTS; 1. MANUFACTURER: Add sub-item a. to read: "a. Universal Sign, Inc., Grand Rapids Michigan is an acceptable signage manufacturer."
3. **SPECIFICATIONS**; 11 48 13 COMMERCIAL DISHWASHERS; B. MATERIALS; 2. DISHWASHER:
 - a. Revise sub-item a. heading to read: "Preparation 105".
 - b. 1). Change Model No. to read: "GDT665SSNSS".
4. **SPECIFICATIONS**; 12 35 00 SCIENCE LAB CASEWORK; B. PRODUCTS; 8. LABORATORY SERVICE FIXTURES, FITTINGS AND ACCESSORIES: Delete sub-item b. Gas fixtures are not part of this project.
5. **SPECIFICATIONS**; 16 12 00 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES: Add sub-item L. LOW VOLTAGE CABLING AND DEVICES SCHEDULE per the attached exhibit.
6. **DRAWINGS**; Sheet No. TITLE E6.2:
 - a. EXISTING ELECTRICAL RISER DIAGRAM NOTES: Revise note 3 as shown on Addendum Drawing No. TITLE E6.2a, dated 10/18/21.
 - b. PROPOSED ELECTRICAL LAB RISER DIAGRAM AND NOTES: Revise the Riser Diagram and Notes as shown on Addendum Drawing No. TITLE E6.2b, dated 10/18/21.
7. **DRAWINGS**; Sheet No. TITLE E6.3:
 - a. PANEL 1HV1: Revise the main breaker ampacity to 100A.
8. **DRAWINGS**; Sheet No. LAB E3.0:
 - a. ELECTRICAL SYSTEM PLAN AND NOTES: Revise the Electrical System Plan and Electrical Plan Notes as shown on Addendum Drawing No. LAB E3.0, dated 10/18/21.
9. **DRAWINGS**; Sheet No. OFFICE E0.1; ELECTRICAL DEMOLITION PLAN: Revise the Electrical Demolition Plan as shown on Addendum Drawing No. OFFICE E0.1, dated 10/18/21.
10. **DRAWINGS**; Sheet No. OFFICE E1.0: replace this sheet in its entirety with the attached Sheet OFFICE E1.0, dated ADD-1 (10/18/2021). Note that the power distribution has been revised in the Administration Offices and Crisis Room.

11. **DRAWINGS**; Sheet No. OFFICE E3.0: replace this sheet in its entirety with the attached Sheet OFFICE E3.0, dated ADD-1 (10/18/2021). Note the addition of the DATA CABLE SPECIFICATIONS.

END OF ADDENDUM NO. 1

All bidders must acknowledge receipt of this Addendum in their bid.

L. LOW VOLTAGE CABLING AND DEVICES SCHEDULE

- **Aiphone Intercom**
- Each of the following need a **Purple Cat 6 Ethernet Cable** run to each with NK6TMWH White NetKey Category 6 UTP Jack Module on each end
 - 1 Outside Door C
 - IX-DVF-P (With integrated card reader to not have to install one for this door)
 - Will need a SBX-IDVF as well
 - 1 in the airlock of Door c
 - IX-DVF-P (With integrated card reader to not have to install one for this door)
 - will need a SBX-IDVF if not going to be flush mounted
 - 1 outside of the secretaries service window
 - IX-DVF-HW
 - will need a SBX-IDVF if not flush mounted
- 1 x Aiphone IX-MV7-HB **for each spec'd out secretary station, including the head secretary**

- **Access Control**
 - **Brand: Kantech**
 - **Controller: Kantech** KT400, 1 for every 4 doors
 - **Readers: HID** Global 920PTNNEK00000 RP40 MULTICLASS RDR,STD,PRX,WIEG,Pig,BLK
 - **Cabling: Belden** 558AFJ - Access Control, 16c (#22-3pr, #18-4c, #22-6c), Shielded, Outer Jacket, CM
 - Should be mounted in the Fieldhouse east IDF room with the other Kantech

- **Ethernet Cabling**
 - ALL Cat6 either Belden or Berk-Tek LANmark
 - Green to all cameras
 - Purple to all AiPhone intercoms
 - Red to all SIP Intercom speakers
 - Yellow to all data jacks
 - Orange to all WiFi access Points
 - Pink to all televisions/smart TV's
 - All jacks should correspond to cable color
 - Panduit NK6TMGR for cameras
 - Panduit NK6TMWH for aiphone intercom and TV's
 - Panduit NK6TMRF for SIP speakers
 - Panduit NK6TMOR for Wireless Access Points
 - All wall plates should be

- Panduit 4 port regardless of the number of ports needed, with blanks to fill remaining ports
 - All patch panels should be
 - Panduit NKPP48P Patch Panel, NetKey, Modular Molded, 48 Port, 2RMU
- **Intercom Speakers**
 - Wall-mounted Algo 8190S IP Speaker – Clock & Visual Alerter, with a red ethernet run to the speaker
 - One in each office space
- **Electronics**
 - TV's (All must be airplay compatible)
 - In each principals office
 - 43" Class TU7000 Crystal UHD 4K Smart TV (2020)
UN43TU7000FXZA
 - Will need Wall mounts on the principal's desk that can be out and used swivel mount to turn towards visitor as well
 - Small Conference Rooms
 - 65" Class TU7000 Crystal UHD 4K Smart TV (2020)
N65TU7000FXZA
 - Wall Mounted
 - Wired ethernet run to TV
 - Large Meeting Room and Panic Room
 - Samsung Flip 2 WMR Series Flip 2 85" 4K UHD Display
MFG.PART: WM85R
 - Samsung WMN8200SF Wall Mount
 - Network will need to be run to both
 - Head Principals Office
 - Samsung Flip 2 WM65R WMR Series - 65" LED display - 4K
MFG#: WM65R
 - Samsung WMN-WM65R - wall mount

EXISTING ELECTRICAL RISER DIAGRAM NOTES

- ① EXISTING PANEL TO BE REMOVED.
- ② REMOVE EXISTING CIRCUIT WIRES BACK TO THE SOURCE. EXISTING STUBBED UP UNDERGROUND CONDUIT TO BE REMOVED. REFER TO PROPOSED ELECTRICAL LAB RISER DIAGRAM.
- ③ EXISTING FUSE TO REMAIN AND LEAVE AS SPARE.

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SCO ENGINEERING, LLC
SOLUTIONS PROVIDED • PROBLEMS SOLVED
FORT WAYNE (280) 438-9213
6534 Constitution Dr. (280) 432-5481 fax
Fort Wayne, Indiana 46804 scofw@sco-llc.com

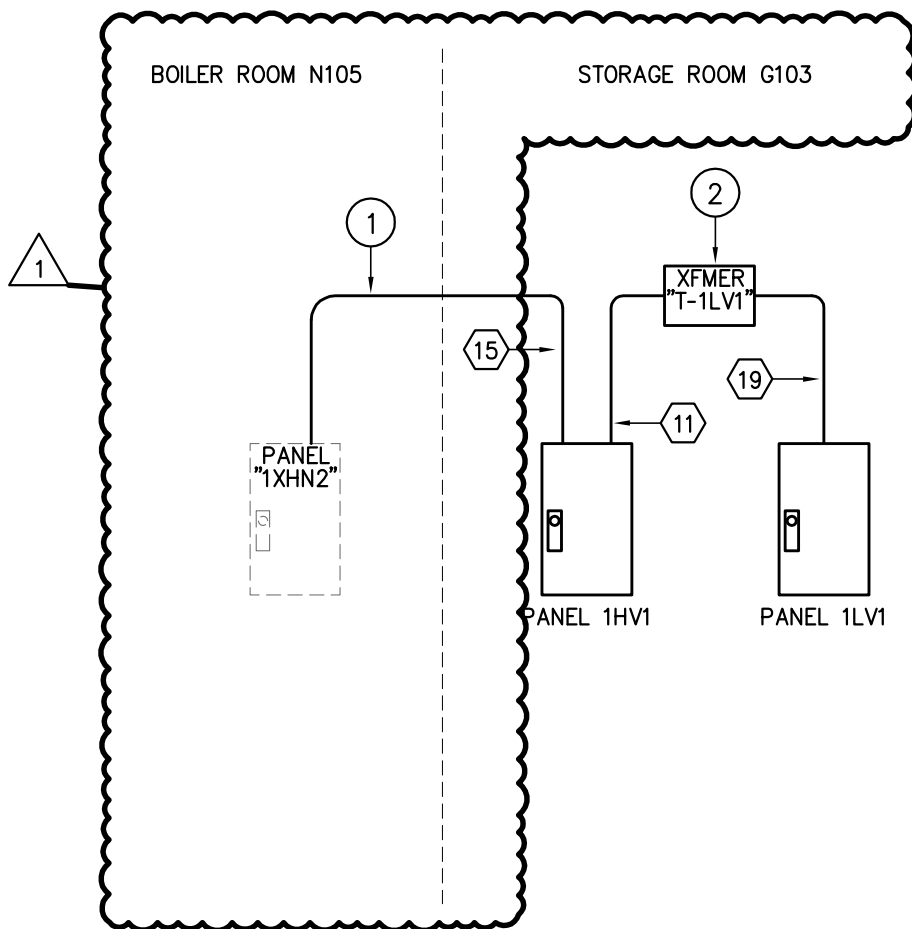


ADDENDUM #1

PORTAGE TOWNSHIP SCHOOLS
LEARNING LAB, MEDIA CENTERS,
AND OFFICE PROJECT
PORTAGE, INDIANA

DATE: 10-18-21
PROJECT NO.: 212562
CAD NAME: TITLE E6.2
SHEET NO.:

TITLE E6.2-10-18-21a



PROPOSED ELECTRICAL RISER DIAGRAM NOTES

- ① NEW EXPOSED INDOORS CONDUIT AND WIRES FOR NEW PANEL 1HV1. REFER TO POWER AND CONDUITS SCHEDULE. PROVIDE A 100A, 480V, 3PH BREAKER AT EXISTING PANEL "1XHN2" COMPATIBLE WITH EXISTING PANEL MANUFACTURER.
- ② NEW WALL MOUNTED TRANSFORMER. CONTRACTOR TO PROVIDE WALL MOUNTED ACCESSORIES AS NEEDED. REFER TO TRANSFORMER SCHEDULE FOR MORE DETAILS.

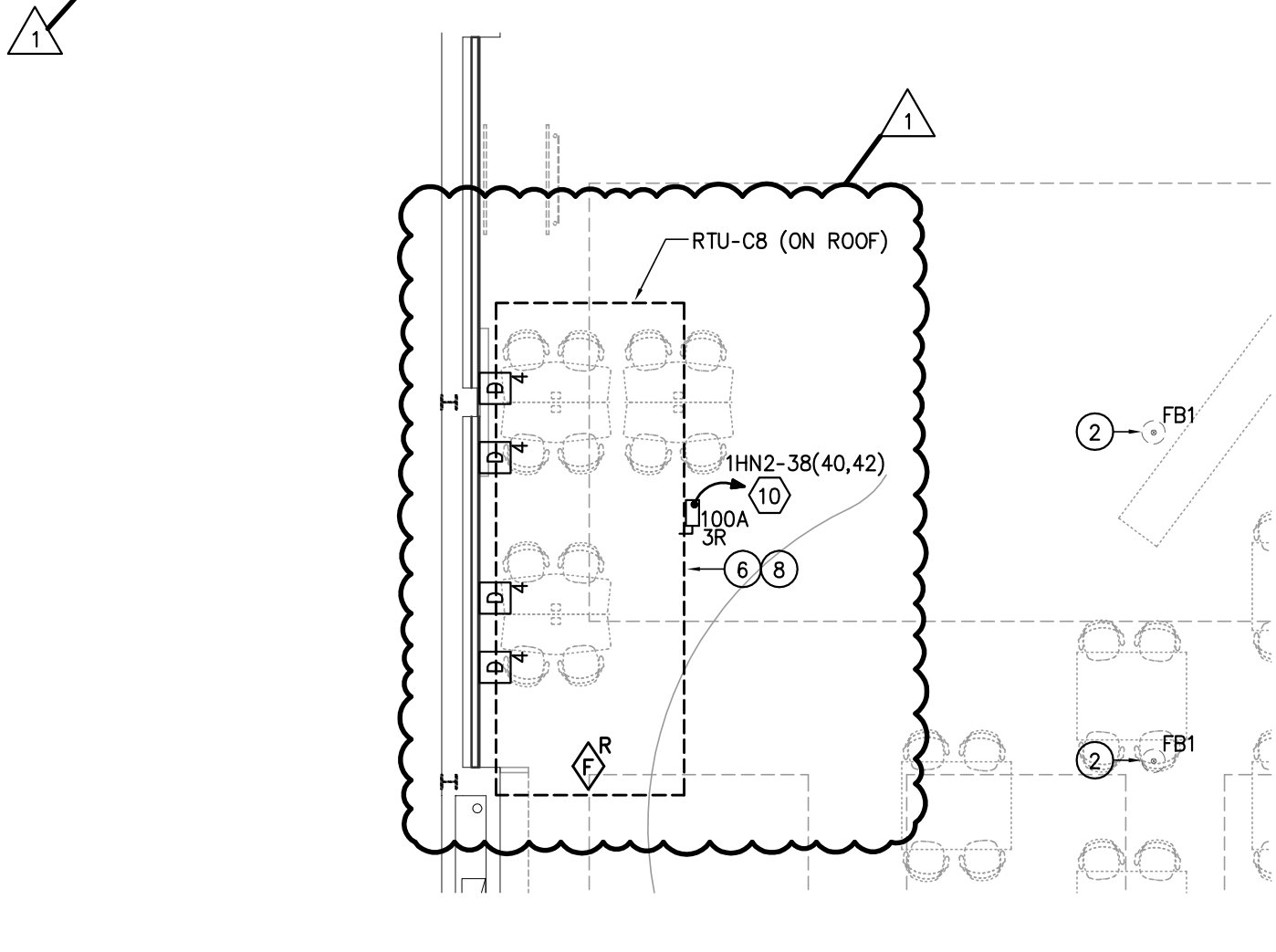
2 PROPOSED ELECTRICAL LAB RISER DIAGRAM

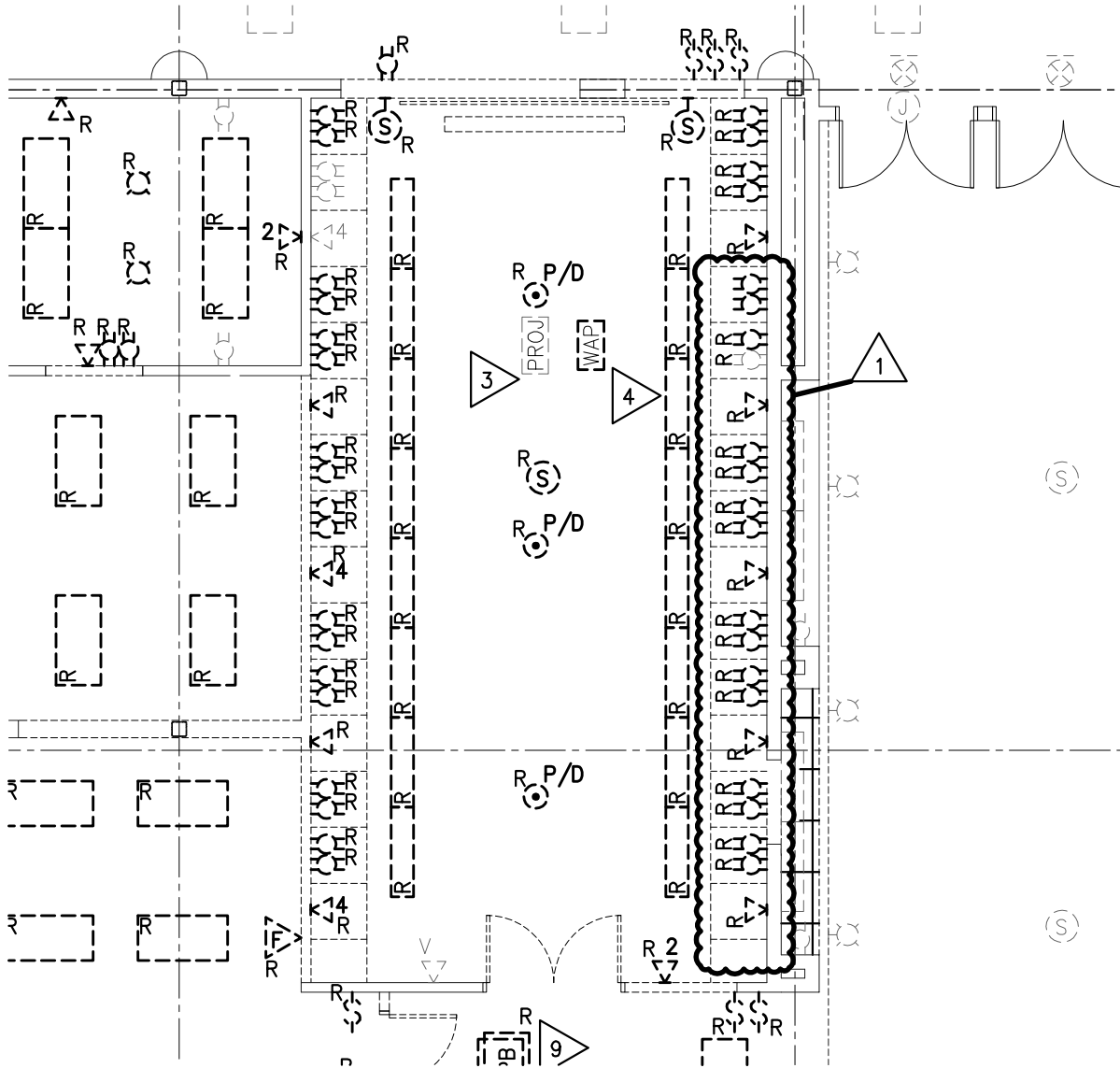
NOT TO SCALE

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ELECTRICAL PLAN NOTES

- ① FLOOR BOX INSTALLED IN FACE OF RAMP WALL.
- ② EXISTING LEGRAND FSR (FL-500P) FLOOR BOX FOR POWER, DATA AND A/V TO REMAIN.
- ③ EXISTING STUB CONDUITS FROM FLOOR BOXES TO REMAIN.
- ④ REFER TO NOTE 14 ON SHEET E1.0.
- ⑤ REFER TO NOTE 15 ON SHEET E1.0.
- ⑥ MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. COORDINATE EXACT LOCATION WITH PROVIDER AND TERMINATE AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD-SIDE WIRED.
- ⑦ DOOR HOLDERS PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL TERMINATE TO FIRE ALARM PANEL SUCH THAT UPON FIRE ALARM ACTIVATION, HOLDERS RELEASE. RE-PROGRAM FACP AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- ⑧ PANELBOARD 1HN2 LOCATED IN BOILER ROOM N-105. FOR BIDDING PURPOSES USE 200FT LONG POWER CIRCUIT.



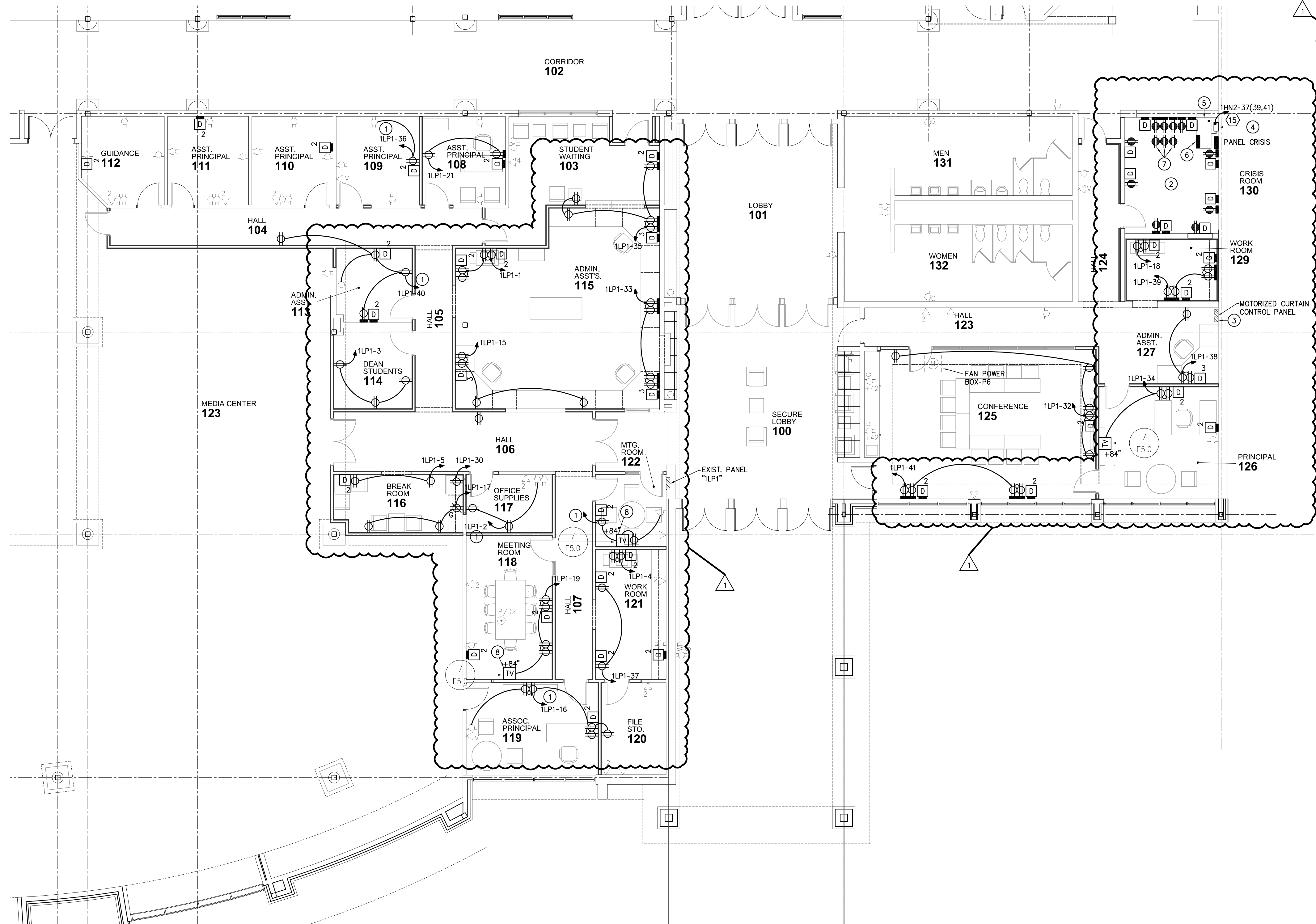


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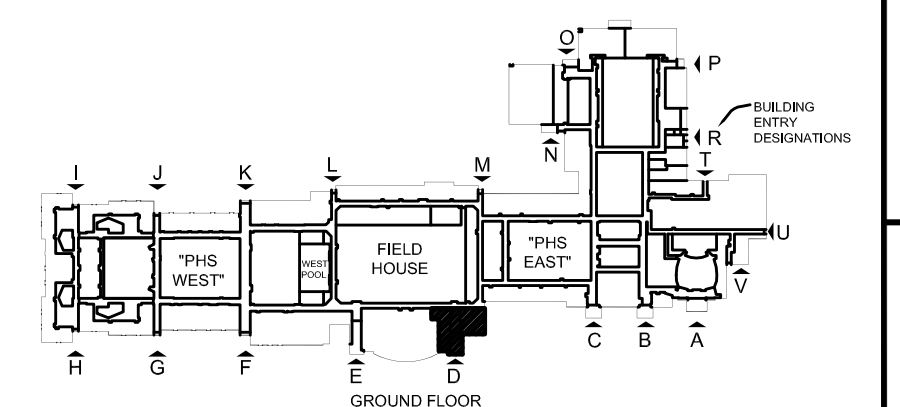
FINAL LOCATION OF ALL CRISIS ROOM EQUIPMENT SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION FOR A COMPLETE AND FUNCTIONAL SYSTEM.EQUIPMENT INSIDE CRISIS ROOM TO BE PROVIDED BY THE CONTRACTOR.

ELECTRICAL PLAN NOTES

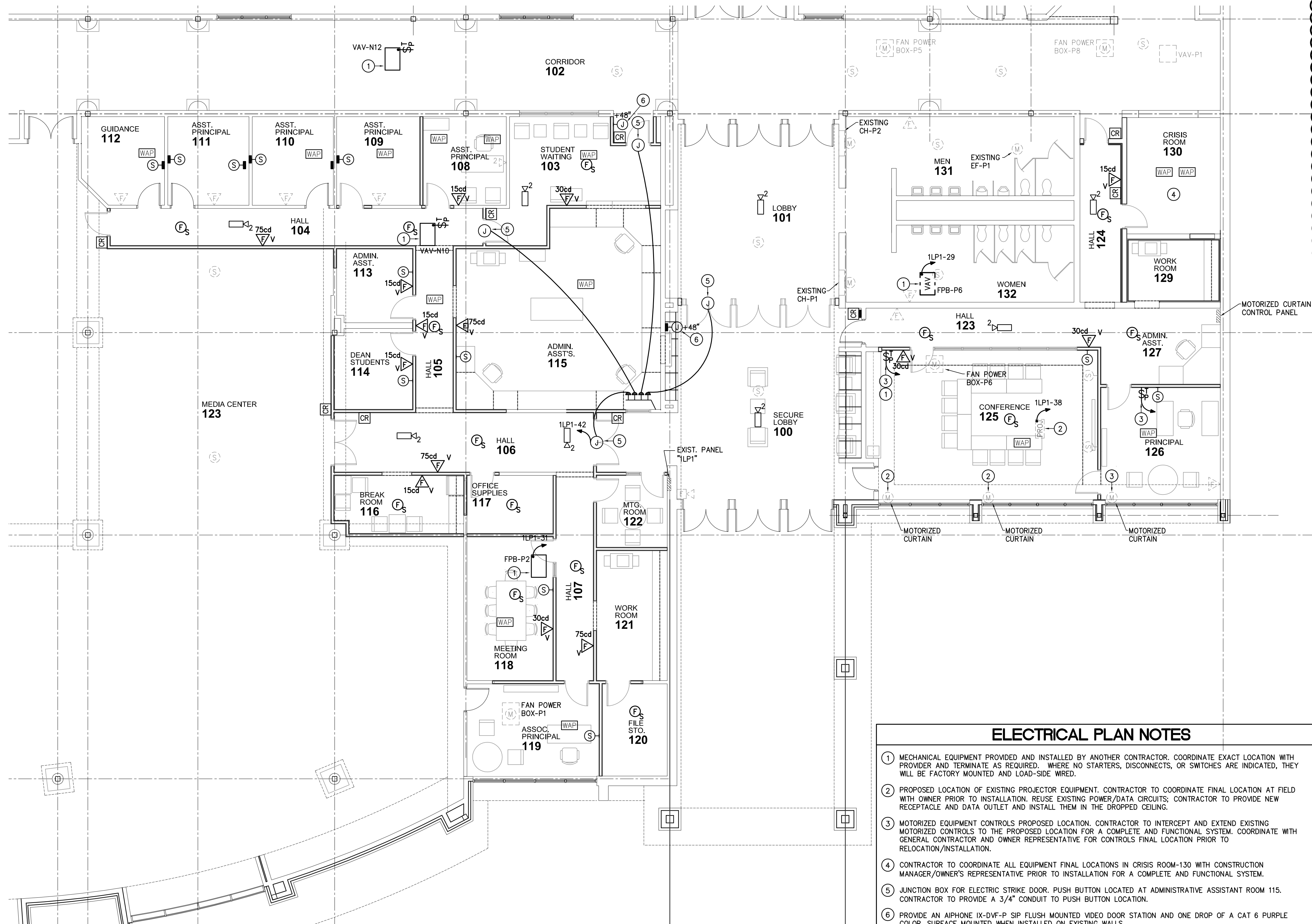
1. TERMINATE TO EXISTING ROOM POWER CIRCUIT AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. CONTRACTOR TO COORDINATE ALL EQUIPMENT FINAL LOCATIONS IN CRISIS ROOM-130 WITH CONSTRUCTION MANAGER/OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. MOTORIZED EQUIPMENT CONTROLS PROPOSED LOCATION. CONTRACTOR TO INTERCEPT AND EXTEND EXISTING MOTORIZED CONTROLS TO THE PROPOSED PANEL LOCATION FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE WITH GENERAL CONTRACTOR AND OWNER REPRESENTATIVE FOR FINAL PANEL LOCATION PRIOR TO RELOCATION/INSTALLATION.
4. 60A, 208V, 3-PHASE, DISCONNECT FOR UPS APC SYMMETRA 8KVA RACK MOUNTED UPS SCALABLE TO 8KVA N+1. SEE CRISIS ROOM ONE LINE DIAGRAM ON SHEET ES-2.
5. NETSHELTER SV 48U RACK.
6. APC SYMMETRA LX 8KVA SCALABLE TO 8KVA N+1 RACK MOUNT UPS.
7. 9 WALL MOUNTED RECEPTACLE BEHIND VIDEO RACK IN A 3X3 CONFIGURATION. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
8. PROVIDE TWO DATA DROPS.



ELECTRICAL POWER PLAN



KEY PLAN



ELECTRICAL SYSTEMS PLAN

2' 4' 8' 16' 32'

SCALE

FIRE ALARM DEVICES ARE SHOWN FOR QUANTITY AND GENERAL LOCATION, DEVICES MOUNTED ON CEILINGS AND/OR WALLS MAY REQUIRE UP TO A 24" LATERAL ADJUSTMENT TO AVOID INTERFERENCE WITH OTHER COMPONENTS (SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, DISPLAY WALLS, WHITE BOARDS, ETC.). ANY REQUIRED LATERAL ADJUSTMENT MUST BE BROUGHT TO THE ENGINEER'S ATTENTION AND BE DIRECTED BY THE ENGINEER.

FIRE ALARM SYSTEM NOTIFICATION DEVICE CANDELA (cd) RATINGS NOTED ON DRAWING IS PER NFPA 72 SECTION 4 WHICH IS A MEASUREMENT TESTED OFF-AXIS, EACH DEVICE IS STILL REQUIRED TO MEET ADA MINIMUM OF 75cd WHICH IS A MEASUREMENT TESTED ON-AXIS.

ELECTRICAL PLAN NOTES

- MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. COORDINATE EXACT LOCATION WITH PROVIDER AND TERMINATE AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD-SIDE WIRING.
- PROPOSED LOCATION OF EXISTING PROJECTOR EQUIPMENT. CONTRACTOR TO COORDINATE FINAL LOCATION AT FIELD WITH OWNER PRIOR TO INSTALLATION. REUSE EXISTING POWER/DATA CIRCUITS; CONTRACTOR TO PROVIDE NEW RECEPTACLE AND DATA OUTLET AND INSTALL THEM IN THE DROPPED CEILING.
- MOTORIZED EQUIPMENT CONTROLS PROPOSED LOCATION. CONTRACTOR TO INTERCEPT AND EXTEND EXISTING MOTORIZED CONTROLS TO THE PROPOSED LOCATION FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE WITH GENERAL CONTRACTOR AND OWNER REPRESENTATIVE FOR CONTROLS FINAL LOCATION PRIOR TO RELOCATION/INSTALLATION.
- CONTRACTOR TO COORDINATE ALL EQUIPMENT FINAL LOCATIONS IN CRISIS ROOM-130 WITH CONSTRUCTION MANAGER/OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- JUNCTION BOX FOR ELECTRIC STRIKE DOOR. PUSH BUTTON LOCATED AT ADMINISTRATIVE ASSISTANT ROOM 115. CONTRACTOR TO PROVIDE A 3/4" CONDUIT TO PUSH BUTTON LOCATION.
- PROVIDE AN AIPHONE IX-DVF-P SIP FLUSH MOUNTED VIDEO DOOR STATION AND ONE DROP OF A CAT 6 PURPLE COLOR. SURFACE MOUNTED WHEN INSTALLED ON EXISTING WALLS.

DATA CABLE SPECIFICATIONS

CAT-6 CABLE SPECIFICATIONS:

- THE HORIZONTAL CABLE SYSTEM SHALL BE CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) PLENUM RATED CABLE. THE CABLE RUN SHALL BE FROM EACH USER LOCATION TO THE (IDF/MDF-E IN ROOM L-104). THE PROPOSED DATA CABLE SHALL COMPLY WITH THE EIA/TIA-568-C.2 STANDARDS WITH GUARANTEED ELECTRICAL PERFORMANCE TO 400 MHZ.
- MANUFACTURER; EXCEPT AS INDICATED OTHERWISE BELOW AND/OR IN THE 'COMMUNICATIONS SPECIFICATION STANDARDS', ALL DATA/PHONE/CAMERA/WAP CABLE SHALL BE BELDEN OR BERK-TEK LANMARK AND ACCESSORIES SHALL BE NETKEY AS MANUFACTURED BY PANDUIT; REFER TO 'COMMUNICATIONS SPECIFICATION STANDARDS' AND OWNERS STANDARDS. PHONE AND ACCESSORIES SHALL BE AIPHONE INTERCOM PRODUCTS. ACCESS CONTROLS AND ACCESSORIES SHALL BE KANTEC AND ITS CABLING SHALL BE BELDEN.

DATA CABLE: CAT-6 YELLOW.

PHONE CABLE: CAT-6 BLUE.

CAMERA CABLE: CAT-6 GREEN.

WAP CABLE: CAT-6 ORANGE.

AIPHONE INTERCOM: CAT-6 PURPLE.

JACKS: NETKEY CAT-6, #T568-C.2, COLOR TO MATCH THAT OF CABLE.

FACEPLATE: NETKEY, ELECTRIC IVORY.

BLANK INSERTS: NETKEY, ELECTRIC IVORY.

ABOVE CEILING TERMINATIONS: NETKEY "BISCUIT BOX".

PATCH PANEL: NETKEY CAT-6 110 BACK, 48-PORT PATCH PANEL.

PATCH CORDS: NETKEY CAT-6 WITH CAT-6 JACK ON EACH END.

DATA CABLE INSTALLATION GUIDELINES:

- CAT-6 CABLES TO USER LOCATIONS SHALL BE TERMINATED PER TIA/EIA-568-C.2 STANDARDS.
- CAT-6 CABLES IN THE (IDF/MDF-E ROOM L-104) SHALL TERMINATE ONTO A CAT-6 PATCH PANEL AS PER TIA/EIA-568-C.2 STANDARDS.
- CABLES SHALL BE ROUTED THROUGH THE CABLE TRAY WHERE AVAILABLE. DROPS ARE TAKEN AT A RIGHT ANGLE TO THE DOOR UNLESS A SLEEVE EXISTS ELSEWHERE. CABLES ARE DISTRIBUTED ALONG THE FOUR WALLS. NO CABLES SHALL BE RAN IN A DIAGONAL MANNER. A MINIMUM 1" BEND RADIUS SHALL BE MAINTAINED WHEN ROUTING CABLES FROM THE STRAIGHT RUN.
- CABLE SHALL BE ANCHORED TO BUILDING STRUCTURE WHEREVER POSSIBLE, USING INDUSTRY STANDARD ATTACHMENT DEVICES. CABLE SHALL NOT BE ATTACHED DIRECTLY TO PIPES, DUCTWORK OR TO AC POWER CONDUITS.
- CADDY D-RINGS, BRIDLE RINGS WITH SADDLES, OR J-HOOKS ATTACHED TO STRUCTURE SHALL BE USED WHERE NO SUPPORT IS AVAILABLE.
- TO MAINTAIN PROPER CABLE TENSION, CABLE SUPPORTS SHALL BE NO MORE THAN 5 FEET APART. THE INSTALLED CABLE MUST EXHIBIT SOME SAG IN THE HANGING BETWEEN SUPPORTS.
- CABLE RUNS SHALL BE KEPT AT LEAST 6 INCHES FROM LIGHT FIXTURES, ELECTRIC MOTORS, AND ANY OTHER DEVICES THAT MIGHT CAUSE INTERFERENCE WITH DATA TRANSMISSION. IN GENERAL CABLE PATHWAY SHOULD AVOID ALL SOURCES OF EMI (ELECTRO MAGNETIC INTERFERENCE).
- IN AREAS WITH SUSPENDED CEILING, CABLE SHALL BE SUSPENDED AT LEAST TWO FEET (2FT) ABOVE THE CEILING GRID, OR AT INTERIOR ROOF HEIGHT IF LESS THAN TWO FEET IS AVAILABLE. UNDER NO CIRCUMSTANCES SHALL CABLE BE LAID DIRECTLY ON THE CEILING GRID.
- WHEN TYING CABLES, TWO CABLE TIES SHALL BE USED IN TANDEM WITH ONE BEING ATTACHED TO THE SUPPORT STRUCTURE AND THE OTHER FOR SUPPORTING THE ACTUAL CABLE RUN.
- THE CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING ANY PENETRATIONS PUT IN FLOORS, CEILINGS OR WALLS.
- PROVIDE AND INSTALL ALL REQUIRED PATCH PANELS IN IDF/MDF-E WITH 20% SPARE CAPACITY AT EACH IDF.
- PROVIDE AND INSTALL (6) CAT-6 CABLES, TERMINATED AND LABELED ON CLOSET PATCH PANELS.
- INCORPORATE INTO BID (5) EXTRA DATA DROPS INCLUDING ALL LABOR, MATERIALS, TERMINATIONS, AND TESTING FOR OWNER ADDITIONS DURING CONSTRUCTION.
- INSTALL ALL CABLES WITH A 15' SERVICE LOOP.

AIPHONE INTERCOM:

- SYSTEM TO BE PROGRAMMED BY THE OWNER.
- ETHERNET CABLE SHALL BE PURPLE IN COLOR.
- EACH RUN END OF INTERCOM EQUIPMENT SHALL HAVE NK6TMMH WHITE NETKEY CAT6 UTP JACK MODULE.
- INTERCOM SPEAKERS: WALL MOUNTED ALGO-8190S-IP PRODUCTS. CLOCK AND VISUAL ALERTER WITH RED COLOR ETHERNET RUN TO SPEAKER. REFER TO PLANS.

DATA CABLE LABELING:

- ALL CABLES SHALL BE NUMBERED BEFORE THE RUN. UTP CABLES AT EACH USER LOCATION SHALL HAVE A UNIQUE LOCATION NUMBER AS SHOWN BELOW. THIS SHALL BE SHOWN ON A LABEL AT EACH USER LOCATION. THE LABEL SHALL BE PRINTED IN BOLD WITH A STANDARD LABELING MACHINE USING THE HELVETICA OR GENEVA FONT AT A PITCH OF 10. THE NUMBER "0" (ZERO) AND THE LETTER "O" SHALL BE CLEARLY DISTINGUISHABLE.
- ONE IX-DVF-P WITH INTEGRATED CARD READER AND SBX-IDVF AT DOOR C, ON AIRLOCK AREA AND DOOR 103. REFER TO PLAN.
- ONE IX-DVF-HW ON WINDOW 115 WITH SBX-IDVF.
- PROVIDE AN AIPHONE IX-MV7-HB FOR EACH ADMINISTRATIVE ASSISTANT STATION.

CAMERAS:

- ARECON VISION PRODUCTS. TO BE PROGRAMMED BY THE OWNER. COORDINATE WITH OWNER SPECIFIC MODELS FOR DIFFERENT AREAS AS SHOWN ON PLANS PRIOR TO BID.

XXYZZ

WHERE:

XX - IS A 2 DIGIT CLOSET NUMBER, SUCH AS 00, 01, 02, ETC., WITH 00 BEING THE MDF AND SUBSEQUENT IDF'S NUMBERED FROM 01 ONWARDS.

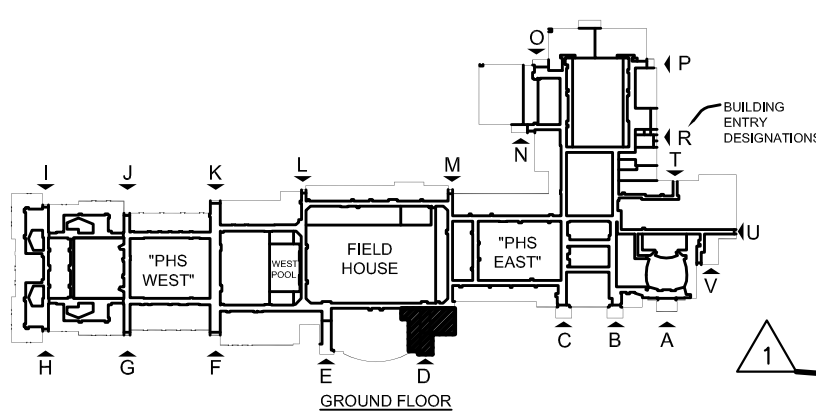
Y INDICATES THAT PATCH PANEL ID AND ALWAYS STARTS WITH A AND GOES ON FORWARD FOR EACH ADDITIONAL PANEL.

ZZ IS A 2 DIGIT NUMBER AND IS SAME AS THE NUMBER ON THE PATCH PANEL PORT ON WHICH THE CABLE TERMINATES. THIS NUMBER WOULD RUN FROM 1 THROUGH 48.

WIRING CLOSETS SHALL BE RECORDED IN CABLE MANAGEMENT INVENTORY RECORD PROVIDED.

TESTING:

- COPPER CABLING SHALL BE TESTED USING A CABLE CERTIFICATION DEVICE. MEASURES SHALL BE TAKEN TO ENSURE COMPLIANCE WITH EIA/TIA-568C.2 SPECIFIED CAT-6 INSTALLATION SPECIFICATIONS. CABLES SHALL BE TESTED FOR NEAR END CROSS TALK (NEXT), DISTANCE, RESISTANCE, dB LOSS, CONTINUITY, AND POLARITY. TEST RESULTS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER UPON COMPLETION. THE ENTIRE COPPER CABLE PLANT SHALL BE CERTIFIED FOR 400 MHZ TRANSMISSION SPEEDS.



KEY PLAN