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## ADDENDUM

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|                  |   |                    |  |
|------------------|---|--------------------|--|
| Client / Address | Troy School District<br>4420 Livernois, Troy MI | Project / Location | Former ITT building structured cabling systems |
| Date Issued      | January 21, 2020                                | Project Number     | 9898   |

**A1-1 NOTICE: The bid documents are amended herein which adds to and/or supersedes conflicting or additional information in the Request for Proposal.**

1. Work covered by this Addendum shall be subject to the Introduction, Terms and Conditions and Technical Specifications.
2. Acknowledge this Addendum on the Cost Analysis Worksheet and include the cost of the work herein specified in the Bid.
3. **Notice:** The required electronic copies of the proposal must be in every way a duplicate of the hard copy. Provide the electronic copy in separate PDFs by tabular section as required by the hard copy. Failure to provide a duplicate of all information in both formats will be grounds for non-compliance and disqualification.

**A1-3 Pre-bid Meeting and Site Survey**

1. Schedule of Events – bids are due at 11 AM January 27, 2020, note change of location for submission and opening: Troy school District Services Building 4420 Livernois, Troy, MI in the lab rooms 1 & 2
  - a. Reviewed all dates
2. Change address on proposal form and Cost Analysis Worksheet to:

Troy School District  
Services Building  
4420 Livernois  
Troy, Michigan 48098  
Attn: Beth Soggs, Technology Director

3. BOM and all other forms required to be submitted with bid for bid to be compliant
4. PLM Bond is required if bid is over \$50,000
5. Final addendum to be released on or before January 22, 2020
6. Low voltage permit by the state of Michigan is required
7. Final location of furniture, location and type of conduit and boxes or raceway for telecommunications, etc. have not been determined. Final location in space TBD after award, The Bidder shall provide for this provision in their pricing.

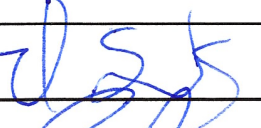



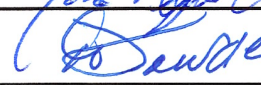


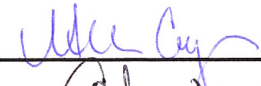
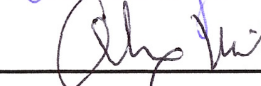
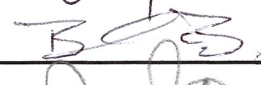


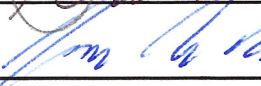
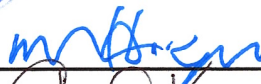

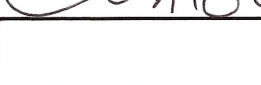
8. The project site has large amounts of low voltage/telecommunications cabling that ALL must be removed. The Bidder shall provide for this provision in their pricing, that shall be non-negotiable after award.
  - a. The District will provide a dumpster on site
9. All unused equipment and material required to be removed - Disposal offsite – check with district prior to disposing of electronics – District personnel will remove all electronics from rack
10. Do not disturb carrier equipment or cabling. Confirm alarm circuits on backbone cabling and do not disturb. Secure multipair copper from carrier demarcation point is unused properly to meet codes and standards and re-terminate as required in MDF in a neat and functional manner, label and test
11. Firestopping of new, reused or existing no longer used LV pathway required through fire or smoke rated partitions, see attached drawing
12. MDF Renovation required - New Bonding and Grounding system in MDF required
13. All new cabling Cat6, plenum - General Cable is approved
14. See attached drawing for electrical plan and demolition plan
15. The fire and HVAC systems and associated cabling have been verified that they are currently communicating and functioning. Alarm system and cabling are functional.
16. Delete camera location in Flex room 152
17. Pre-bid meeting sign in sheet attached

#### **A1-3 Questions and Answers to date**

1. Please verify that new fiber or copper backbone is not required.
  - a. Confirmed. Fiber and copper backbone is not required
2. Please verify we are utilizing the existing 7ft data/ladder rack in MDF.
  - a. Confirmed, but remove existing wall mount rack and patch panel brackets
3. Are any vertical wire managers required?
  - a. Yes, for wireless access point and camera patch cords – one side of rack only
4. It is understood that the data outlets will require 1ft patch cables and the WAPs and Cameras require 3ft in the MDF (supplied by contractor), are these to be installed by the contractor or owner?
  - a. Patch cords to be installed by owner
5. Please verify that ALL end device patch cables including WAPs and Cameras are furnished and installed by owner.
  - a. Confirmed. All end device patch cables are furnished and installed by owner

#### **End of Addendum 1**

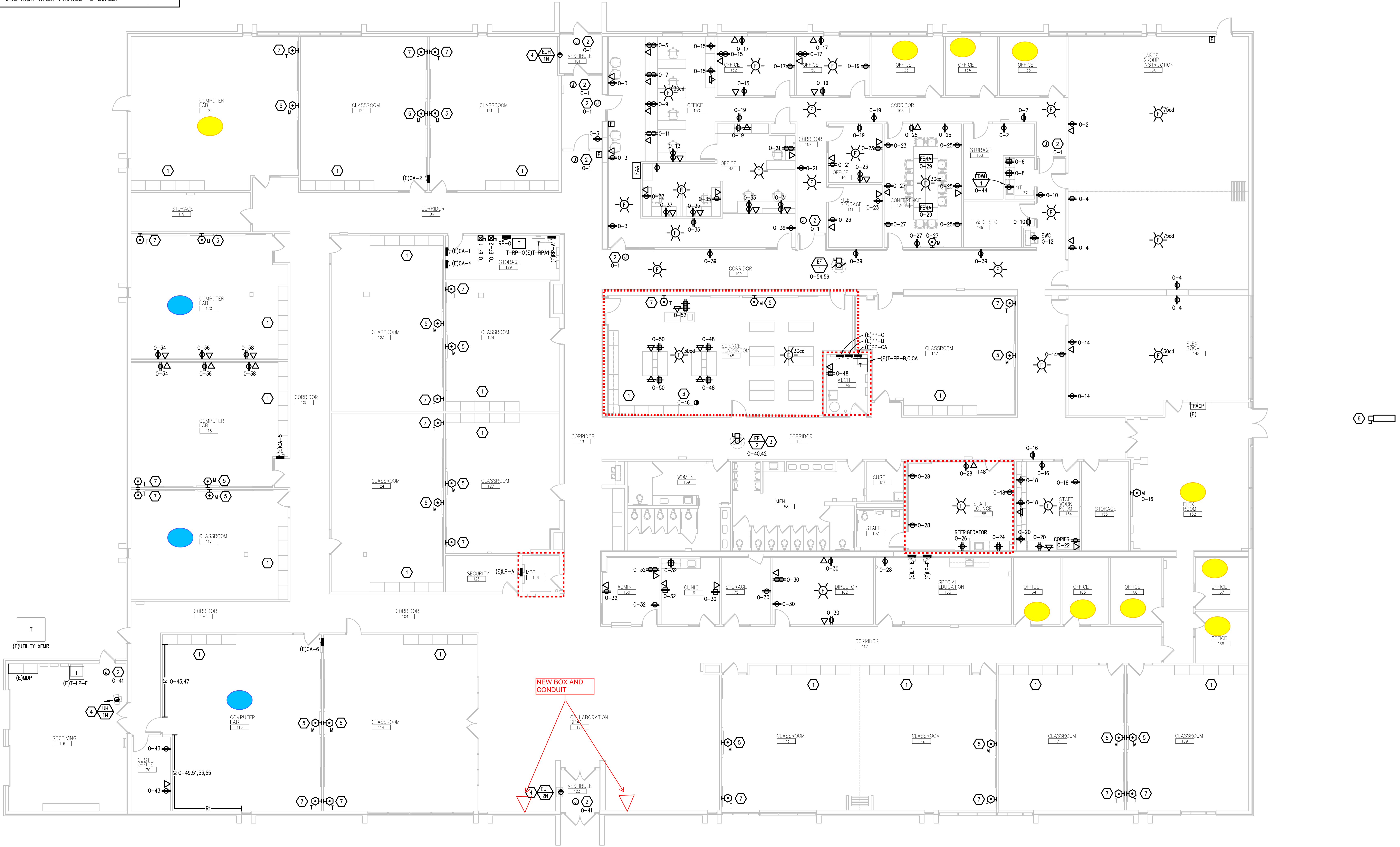
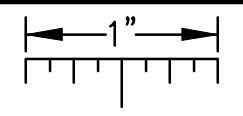
PLEASE WRITE LEGIBLY!

| NAME           | SIGNATURE   | REPRESENTING                   | EMAIL                           | TELEPHONE        |
|----------------|---|--------------------------------|---------------------------------|------------------|
| Eric Helsel    |   | Convergent Technology Partners | ehelsel@ctpartners.net          | 810-223-0531     |
| Beth Soggs     |   | Troy School District           |                                 |                  |
| Tom Szadek     |    | AMR Communications             | TSZADEK@AMRGroup.net            | 734-586-246-2607 |
| Ron Spencer    |    | MOSS                           | ron.spencer@mossco.com          | 616-241-4366     |
| Casey Johnson  |    | Trendset Comm Group            | CJohnson@TCG-pros.com           | 734-740-2815     |
| Tom Hyman      |    | Fiber Link Inc                 | TShoben@FiberLinkInc.com        | (810) 441-3038   |
| Chris Dowden   |    | DAT                            | CDOWDEN@DAT-INC.US              | 586-216-8810     |
| JEFF BRENDER   |    | CIT                            | JEFF.BRENDER@CIT-4U.COM         | 586-995-9052     |
| Sam Applebee   |    | Stingray Systems               | sapplebee@stingraysyst.com      | 248-943-0077     |
| Melissa Cooper |   | Newkirk Electric               | mkooper@newkirk-electric.com    | 810-577-5055     |
| Alex Mills     |  | Conference Tech Inc.           | amills@conference-tech.com      | 248-574-8522     |
| BRANDY BAYASE  |  | TTI                            | BBAYASE@TELECOMTECH.COM         | 586-864-1070     |
| Jon Stewart    |  | Bayview                        | jstewart@bayelectric.com        | (313) 255-5252   |
| David Hardy    |  | Blue Stone Comm Inc            | DHardy@bluestonecomm.com        | (734) 718-5560   |
| Jason Loucks   |  | SMC Electric LLC               | JLoucks@gmselectrical.com       | 586 563-9101     |
| MATT HIGGINS   |  | AmComm                         | MHIGGINS@Amcomminc.com          | 248 698 8868     |
| Carl Kowowicz  |  | CONTI                          | CKORWOWICZ@CONTICORPORATION.COM | 313-995-3496     |
| DAN DANGOLA    |  | CONTI                          | DDANGOLA@CONTICORPORATION.COM   | 734-674-5619     |
|                |   |                                |                                 |                  |
|                |   |                                |                                 |                  |



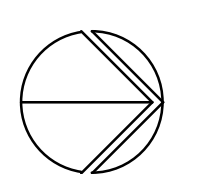
g:\2019\2019-0452-00\CA0\2019-0452-E3-PP1.dwg, E3.1, 1/13/2020 10:33:35 AM, Nadeen F. Homid, None, 1.10841, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS  
ONE INCH WHEN PRINTED TO SCALE.



USE EXISTING BOX/CONDUIT  
USE EXISTING AND NEW

DENOTES FORE RATED PARTITION



# FIRST FLOOR POWER AND AUXILIARY PLAN

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

## ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. WHERE LIGHTING IS BEING REMOVED AND REINSTALLED, PROVIDE GROUND WIRE AS REQUIRED PER NEC.
12. CIRCUIT EXIT SIGN TO UNSWITCHED HOT LEG OF ADJACENT LIGHTING CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

## CONSTRUCTION KEY NOTES:

1. REMOVE AND REINSTALL EXISTING RECEPTACLE AND TELECOMMUNICATIONS DEVICES WHERE NEW CASEWORK HAS INTERFERENCES. INSTALL DEVICES 8" ABOVE TOP OF COUNTERTOP. REUSE EXISTING CONDUIT AND WIRE. NO SURFACE MOUNT CONDUIT PERMITTED.
2. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEMS SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM ON E7 SERIES FOR RACEWAY AND BACK BOXES.
3. FUME HOOD BY MECHANICAL. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS BETWEEN EXHAUST FAN AND HOOD. COORDINATE WITH MANUFACTURERS ELECTRICAL WIRING DIAGRAMS.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. CIRCUIT NEW SIGN TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. CIRCUIT NEW SIGN TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
7. CIRCUIT TEACHER WORKSTATION TO ADJACENT 120V RECEPTACLE BRANCH CIRCUIT IN SPACE. NO SURFACE MOUNT CONDUIT PERMITTED.

FOR LOW VOLTAGE CABLING REFERENCE ONLY



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PBA Project No: 2019-0452

PROJECT TITLE

Niles  
Center  
Relocation

Troy School District  
Troy, Michigan

DRAWING TITLE

FIRST FLOOR POWER AND  
AUXILIARY PLAN

ISSUE DATES

|            |             |
|------------|-------------|
| 01-13-2020 | BIDS        |
| DATE:      | ISSUED FOR: |
| DRAWN      | ZDB         |
| CHECKED    | GJZ         |
| APPROVED   | GJZ         |

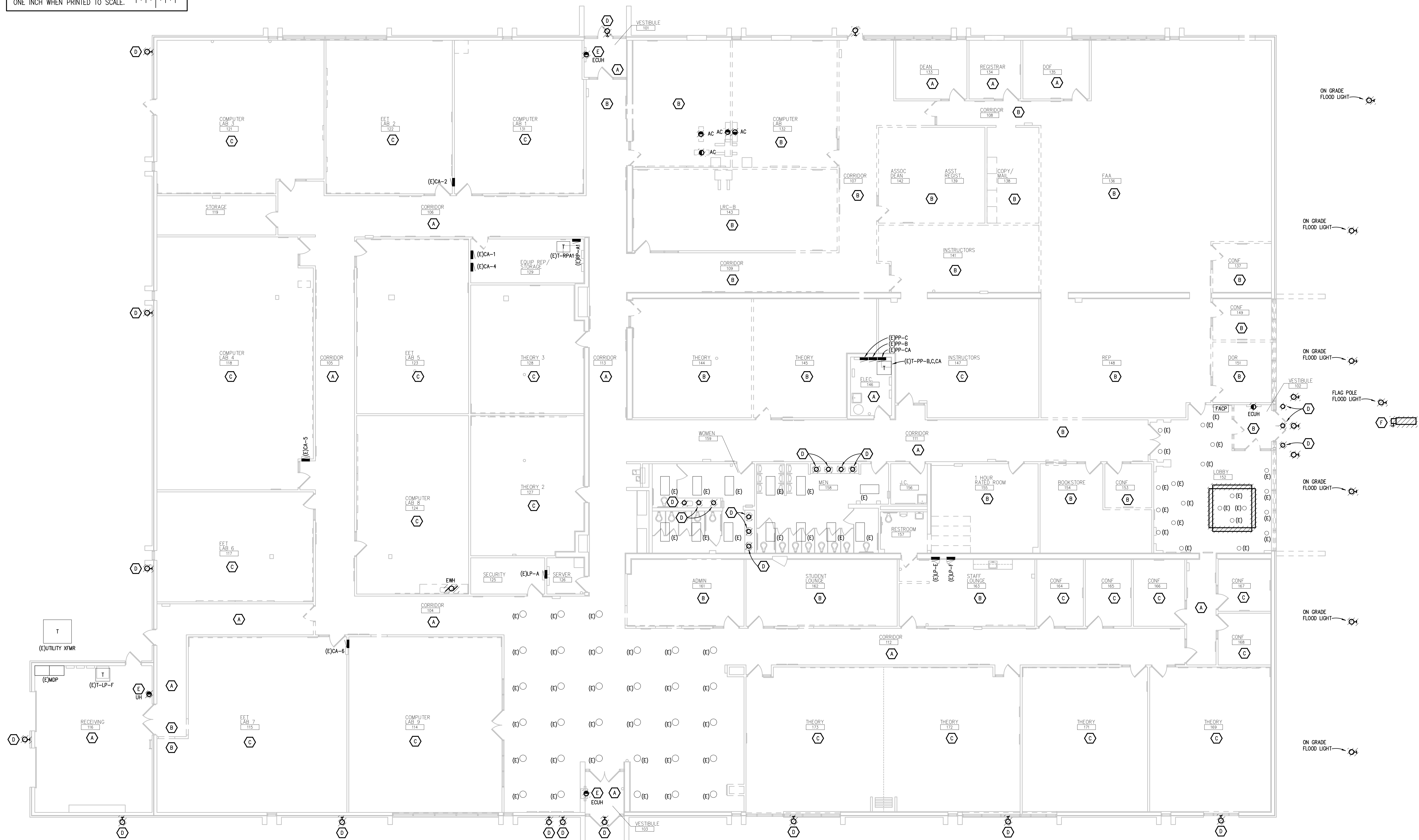
PROJECT NO.

19128

DRAWING NO.

E3.1





**ELECTRICAL DEMOLITION  
GENERAL NOTES:**

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE, AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. MATERIALS TO BE REMOVED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".

11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERSIGHT AND COSTS TO PERFORM THE SHUT DOWN. THE WORKMAN AND SERVICES INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR LONGER THAN 72 HOURS. THE CONTRACTOR COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REMOVE ALL EBU'S AND EXT SIGNS THROUGHOUT, INDICATED OR NOT.
15. REMOVE ALL EXISTING COVER PLATES IN ALL WALLS AND CEILINGS. PROVIDE NEW SLIMLESS STEEL SIGN PLATES.

**DEMOLITION KEY NOTES:**

- A. REMOVE LIGHT FIXTURES AND ASSOCIATED CONTROLS IN SPACE. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- B. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR THIS AREA. IN ALL WALLS AND/OR CEILINGS INDICATED FOR DEMOLITION, REMOVE ALL POWER, DATA AND LIGHTING DEVICES. DEVICES LOCATED ON WALLS NOT TO BE DEMOLISHED ARE TO REMAIN UNLESS OTHERWISE NOTED. MAINTAIN LIGHTING BRANCH CIRCUIT FOR REUSE. (WALLS TO BE DEMOLISHED ARE INDICATED AS DASHED).
- C. ALTERNATE E1:  
REMOVE LIGHT FIXTURES AND ASSOCIATED CONTROLS IN SPACE. MAINTAIN BRANCH CIRCUIT FOR REUSE. REFER TO E2.1.
- D. REMOVE LIGHT FIXTURE. MAINTAIN BRANCH CIRCUIT AND ASSOCIATED CONTROL FOR REUSE.
- E. DISCONNECT POWER TO MECHANICAL EQUIPMENT TO BE REPLACED. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- F. DISCONNECT AND REMOVE EXTERIOR SIGN. MAINTAIN BRANCH CIRCUIT FOR REUSE.



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PBA Project No: 2019-0452

PROJECT TITLE

# Niles Center Relocation

Troy School District  
Troy, Michigan

DRAWING TITLE  
FIRST FLOOR ELECTRICAL  
DEMOLITION PLAN

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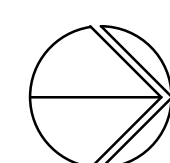
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**FIRST FLOOR ELECTRICAL DEMOLITION PLAN**

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