

Technology Design – Video Surveillance Components

- Single View – Indoor Camera
- Two Way – Indoor Camera
- Three Way – Indoor Camera
- Four Way – Indoor Camera
- 180-Degree – Indoor Camera
- Fisheye – Indoor Camera
- Single View – Indoor Camera
- Two Way – Indoor Camera
- Three Way – Indoor Camera
- Four Way – Indoor Camera
- 180-Degree – Indoor Camera
- Fisheye – Indoor Camera
- Video Intercom
- Intercom Master Station

Technology Design – Door Access Control Components

- Card Reader
- Event Card Reader
- Keypad Card Reader
- ADA Operator Button

Technology Design – Audio/Visual Components

- Interactive Flat Panel
- Non-Interactive Flat Panel
- Audio Speaker
- Teacher Station Location

Technology Design – Public Address & Clocks Components

- Strobe
- PA Speaker – Ceiling (interior)
- PA Speaker – Wall (interior)
- PA Speaker – Outdoor (15W)
- PA Speaker – Outdoor (30W)
- Analog Clock
- Analog Clock – Dual Sided
- Digital Clock
- Digital Clock – Dual Sided
- Bell
- PA Control Console

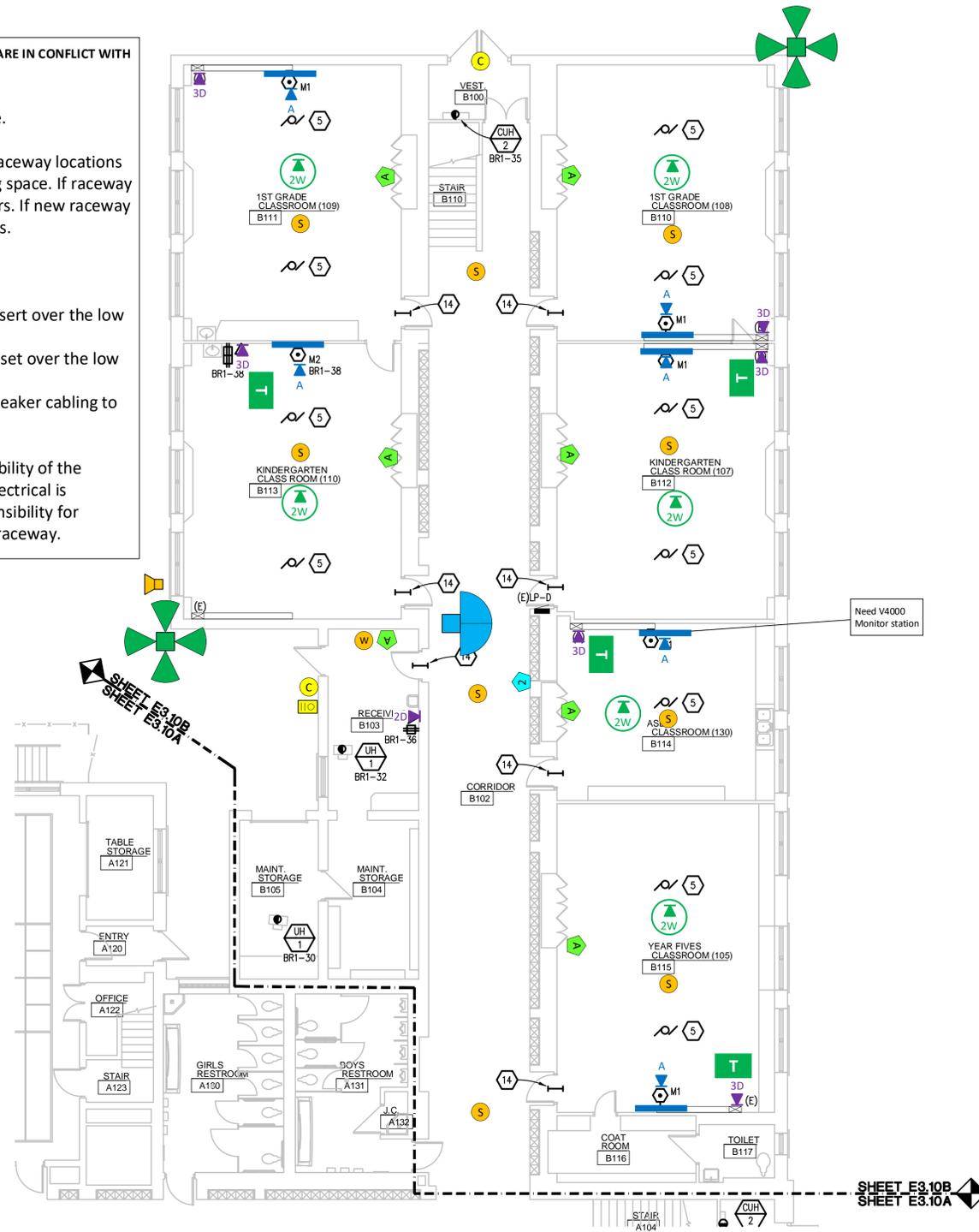
Technology Design – Structured Cabling Components

- General Data Cable (1 per location unless otherwise noted)
- Wireless Access Point Data Cable (1 per location unless otherwise noted)
- Audio/Visual Data Cable (1 per location unless otherwise noted)
- Clock Data Cable (2 per location unless otherwise noted)
- Camera Data Cable – see Video Surveillance Components (1 per location unless otherwise noted)
- Main Distribution Frame
- Intermediate Distribution Frame

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.



UNIT B FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS 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...
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS...
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. 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.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING NATIONAL TIME AND SIGNAL 902 SERIES 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.
13. CIRCUIT NEW EXIT SIGNS, ELLU, AND EMERGENCY BATTERY PACKS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
14. WHERE LIGHTING IS BEING REMOVED AND REPLACED/REINSTALLED, AND EXISTING CIRCUITING IS REUSED, PROVIDE GROUND WIRE AS REQUIRED PER NEC.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RAYWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE, STUB 1" C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE, PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW COMPATIBLE CONTROLLER. LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL ON E7 SERIES.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
8. RECEPTACLE FOR NEW MDF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO RTU SUPPLY/RETURN FAN MOTOR STARTER SUCH THAT UPON DETECTION OF SMOKE SUPPLY/RETURN FAN WILL SHUT DOWN. THIS SHALL BE ACCOMPLISHED VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WITH TEMPERATURE CONTROLS AND FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
16. RELOCATED FIRE ALARM CONTROL PANEL. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. PROVIDE PULL BOX IN ACCESSIBLE CEILING SPACE ABOVE EXISTING LOCATION AND EXTEND ALL CONDUIT AND WIRE TO NEW LOCATION.
17. EXTEND EXISTING CIRCUIT PREVIOUSLY SERVING PROJECTOR IN SPACE TO NEW MONITOR.
18. HEAT TRACE. COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN

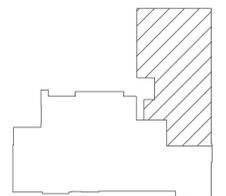


Table with columns: ISSUE DATE, ISSUED FOR. Rows: 09/29/2021, CONSTRUCTION DRAWINGS.

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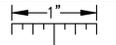
PROJECT: GROSE POINTE PUBLIC SCHOOLS MASON ES RENOVATIONS GROSE POINTE WOODS, MICHIGAN

SHEET: UNIT B FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2021-005

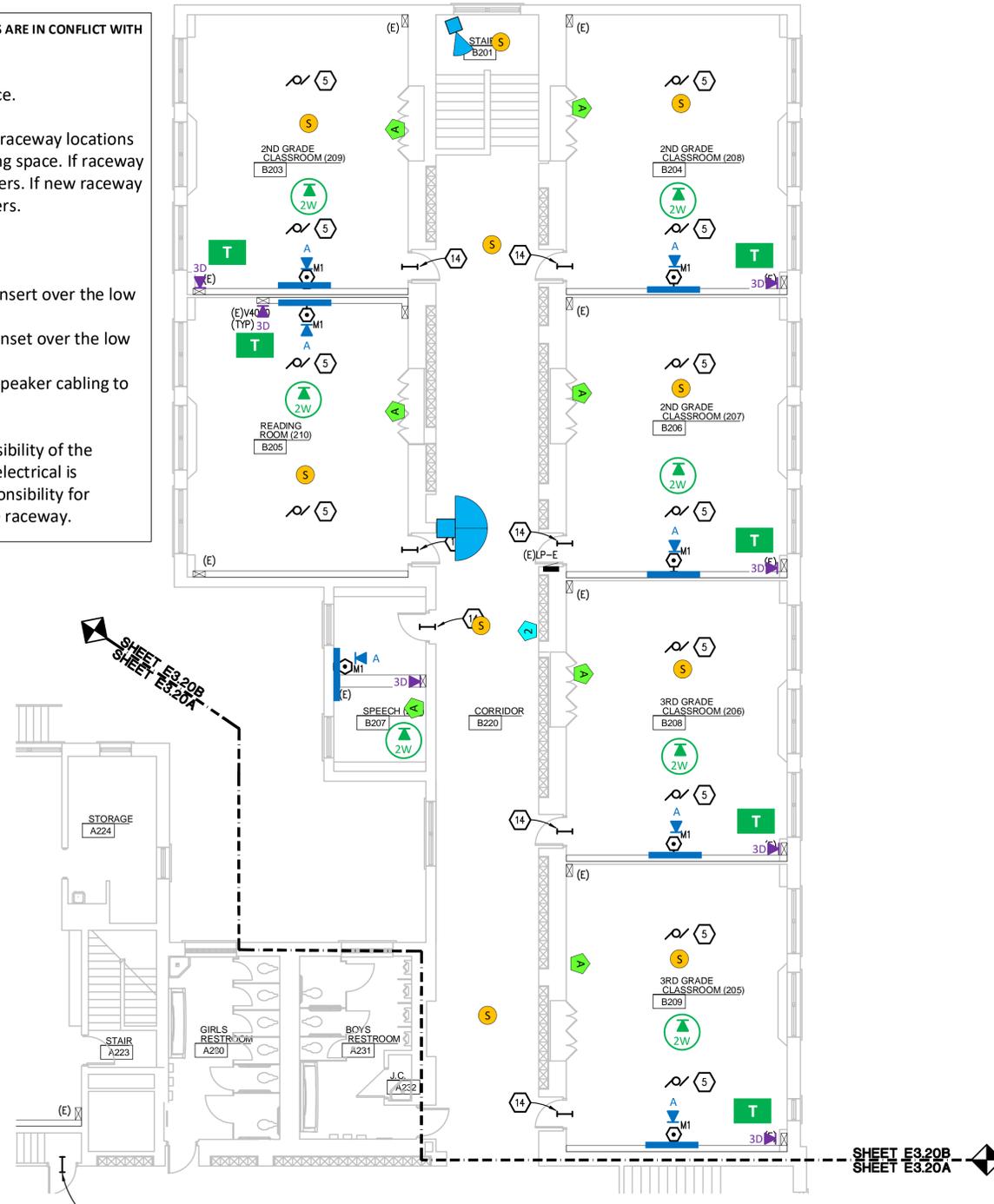
SHEET NUMBER: E3.10B

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.



UNIT B SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS 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...
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS...
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
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13. CIRCUIT NEW EXIT SIGNS, ELU, AND EMERGENCY BATTERY PACKS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
14. WHERE LIGHTING IS BEING REMOVED AND REPLACED/REINSTALLED, AND EXISTING CIRCUITING IS REUSED. PROVIDE GROUND WIRE AS REQUIRED PER NEC.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
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5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025MH AND NEW COMPATIBLE CONTROLLER, LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
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8. RECEPTACLE FOR NEW MDF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
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10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
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17. EXTEND EXISTING CIRCUIT PREVIOUSLY SERVING PROJECTOR IN SPACE TO NEW MONITOR.
18. HEAT TRACE. COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN

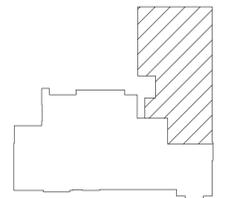


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PROJECT: GROSSE POINTE PUBLIC SCHOOLS MASON ES RENOVATIONS GROSSE POINTE WOODS, MICHIGAN

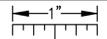
SHEET: UNIT B SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2021-005

SHEET NUMBER

E3.20B

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS... COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, FINAL CONNECTION REQUIREMENTS AND PROVIDE EACH SYSTEM COMPLETE INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
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3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS...
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...
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS...
9. PROVIDE THE INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES...
10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS...
11. CIRCUIT NEW EXIT SIGNS, EMERGENCY LIGHTING UNITS, AND EMERGENCY BATTERY PACKS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT...
12. WHERE LIGHTING IS BEING REMOVED AND REINSTALLED/REPLACED AND EXISTING IS TO BE REUSED, PROVIDE GROUND WIRE, AS REQUIRED, PER NEC.
13. WHERE WALLS ARE BEING FURRED OUT EXTEND EXISTING DEVICES TO NEW WALL.

KEY PLAN

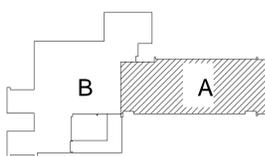


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Professional seal and contact information for Peter Basso Associates Inc. Consulting Engineers, including address, phone, and website.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS...
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE...
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR...
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT...
5. RECEPTACLE FOR CONDENSATE PUMP. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR...
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR...
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR...
8. RECEPTACLE FOR NEW MDF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR...
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT...
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING...
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR...
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING...
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING...
14. PROVIDE (2) 1 1/2" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING...
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR...
16. RELOCATED FARADAY FIRE ALARM CONTROL PANEL. CIRCUIT TO EXISTING BRANCH CIRCUIT...
17. NEW FIRE ALARM CONTROL PANEL. CROSS-TIE INTO EXISTING FARADAY FIRE ALARM CONTROL PANEL...
18. PROVIDE PARTITION FEED. COORDINATE WITH ARCHITECTURAL...
19. NEW CEILING FAN. PROVIDE KICHLER MODEL 330025WH AND COMPATIBLE CONTROLLER...

Professional seal and contact information for FRENCH associates, including address, phone, and website.

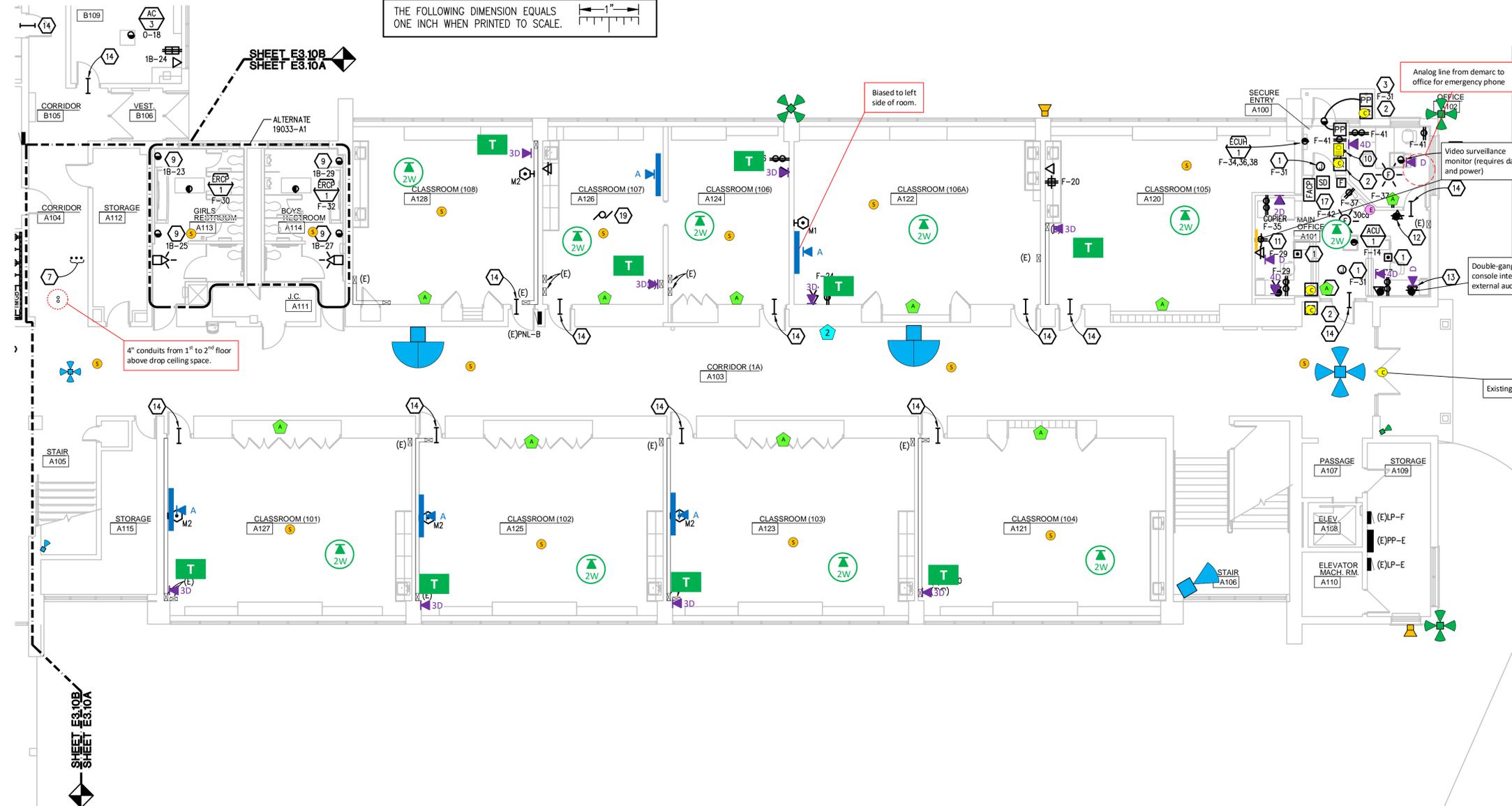
PROJECT: GROSSE POINTE PUBLIC SCHOOLS BARNES ECC RENOVATIONS GROSSE POINTE WOODS MICHIGAN

SHEET: UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-033 SHEET NUMBER

E3.10A

Revision Date:



UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" = 1' - 0"

Infrastructure Requirements - General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space...
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
- The raceway should also extend above drop ceiling to allow speaker cabling to pass through.
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings...

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Vertical text on the right margin: 2019-033 GPPS BARNES ECC RENOVATION

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. 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. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
8. 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 REQUIREMENTS. PROVIDE ALL ACCESSORIES INDICATED.

- 10. REFER TO LIGHTING CONTROL SCHEDULE FOR REQUIRED LIGHTING CONTROL REQUIREMENTS. DESIGN AS A LETTERED OVAL SYMBOL.
11. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. 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 REQUIREMENTS. PROVIDE ALL ACCESSORIES INDICATED.
12. CIRCUIT NEW EXIT SIGNS, EMERGENCY LIGHTING BATTERY BACKUP TO UNSWITCHED HOT LEG OF CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
13. WHERE EXISTING CIRCUITING IS TO BE REUSED, PER NEC.
14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES TO BE REMOVED, PROVIDE NEW STAINLESS STEEL COVER PLATES. PLANS FOR ALL FURRING LOCATIONS.

MDF Closet Location - General Notes: TO BE PROVIDED BY OTHERS

- 1. The space should be environmentally controlled to maintain a room temperature range of 64F to 75F (18°C to 24°C) with a relative humidity level between 37% to 55% non-condensing. Space should have a dedicated A/C unit.
2. Grounding busbars shall be provided and grounded to the main building ground. Mount and secure to backboard at 16" AFF.
3. Each equipment rack should have 1 - L5-30R, 120V and 1 - L5-20R, 120V duplex outlet. Receptacles should be split on diverse panels (A/B per rack). Mount receptacles inside of equipment racks provided by technology contractors.
4. One 4" trade-size conduit should be provided for a vertical riser from the first floor to the tunnel. The conduit should extend 6" AFF.
5. Three 4" conduits should be provided for horizontal pathway from the hallway.
6. 3/4" A/C fire treated plywood backboards to be installed behind the District-provided equipment racks, as high as possible without obstructing window, mounted so the bottom is 6" AFF, painted with fire retardant white paint.

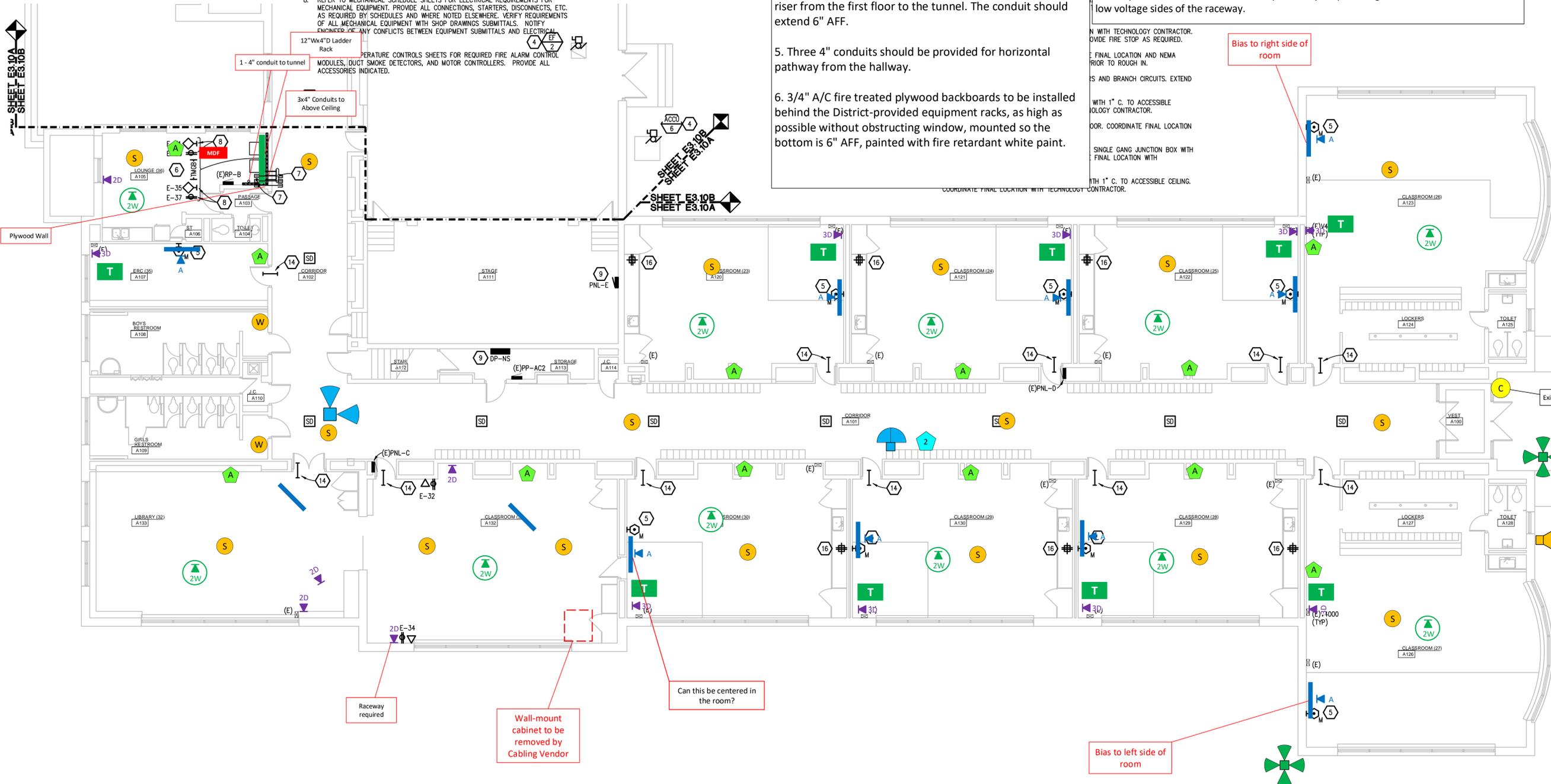
Infrastructure Requirements - General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space. If raceway includes power (V4000 type raceway) it will be extended by others. If new raceway includes power (V4000 type raceway) it will be provided by others.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
- The raceway should also extend above drop ceiling to allow speaker cabling to pass through.
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings. If electrical is removed from existing raceway, electrician should assume responsibility for providing a blank for both electrical and low voltage sides of the raceway.

COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE FIRE STOP AS REQUIRED. FINAL LOCATION AND NEMA PRIOR TO ROUGH IN. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. SINGLE GANG JUNCTION BOX WITH FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.

Bias to right side of room

Bias to left side of room



KEY PLAN

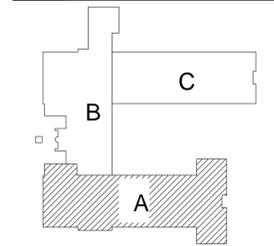


Table with columns for ISSUE DATE, ISSUED FOR, DRAWN, CHECKED, and APPROVED. Entries include dates like 09/19/2021 and names like ZDB and GJZ.

Professional seals and contact information for Peter Basso Associates Inc. Consulting Engineers and EHRESMAN ARCHITECTS.

Logo and contact information for FRENCH associates, including address and phone number.

PROJECT: GROSE POINTE PUBLIC SCHOOLS KERBY ES RENOVATIONS GROSE POINTE FARMS MICHIGAN

SHEET: UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-025

SHEET NUMBER

E3.10A

Revision Date:

UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" = 1' - 0"

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. 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.

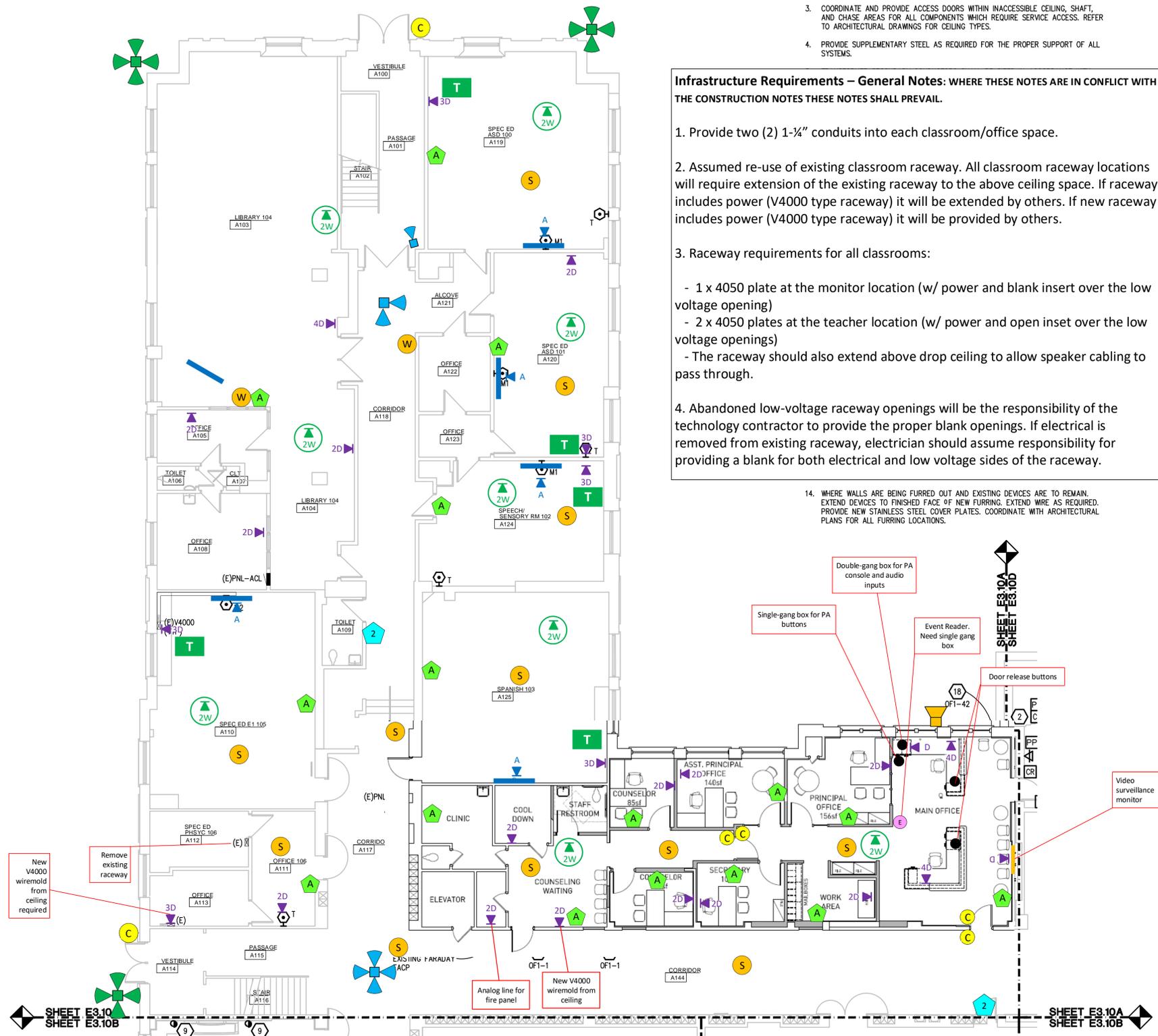
CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE. STUB 1" C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE, PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL. LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL ON E7 SERIES.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
8. RECEPTACLE FOR NEW MDF/DF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO RTU SUPPLY/RETURN FAN MOTOR STARTER SUCH THAT UPON DETECTION OF SMOKE SUPPLY/RETURN FAN WILL SHUT DOWN. THIS SHALL BE ACCOMPLISHED VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WITH TEMPERATURE CONTROLS AND FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
16. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS. EXTEND CONDUIT AND WIRE AS REQUIRED.
17. CIRCUIT NEW TRANSFORMER TO MAINTAINED PRIMARY FEEDER. EXTEND CONDUIT AND WIRE AS REQUIRED.
18. NEW FIRE ALARM CONTROL PANEL. CROSS TIE INTO EXISTING FARADAY FIRE ALARM SYSTEM.

Infrastructure Requirements - General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space. If raceway includes power (V4000 type raceway) it will be extended by others. If new raceway includes power (V4000 type raceway) it will be provided by others.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
- The raceway should also extend above drop ceiling to allow speaker cabling to pass through.
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings. If electrical is removed from existing raceway, electrician should assume responsibility for providing a blank for both electrical and low voltage sides of the raceway.

- 14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN. EXTEND DEVICES TO FINISHED FACE OF NEW FURRING. EXTEND WIRE AS REQUIRED. PROVIDE NEW STAINLESS STEEL COVER PLATES. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FURRING LOCATIONS.



UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" = 1' - 0"

KEY PLAN

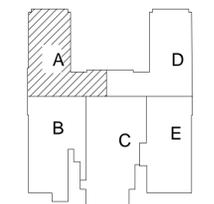


Table with columns for ISSUE DATE and ISSUED FOR. The table lists the following entries: 09/20/2021 CONSTRUCTION DRAWINGS, DRAWN ZDB, CHECKED ZDB, APPROVED G.JZ.

Professional seals and logos for Peter Basso Associates Inc. Consulting Engineers and EHRESMAN ARCHITECTS. Contact information for Peter Basso Associates Inc. is provided: 5145 Livernois, Suite 100, Troy, Michigan 48069-3276. Tel: 248-879-5666. FAX: 248-879-0007. www.PeterBassoAssociates.com. PBA Project No: 20190103.

Logo for FRENCH associates, architects planners interiors. Address: 236 MILL STREET ROCHESTER, MI 48307. T: 248.656.1377 frenchcia.com. © FRENCH associates, Inc.

PROJECT: GROSSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSSE POINTE PARK, MICHIGAN SHEET: UNIT A FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-031 SHEET NUMBER: E3.10A

Revision Date:

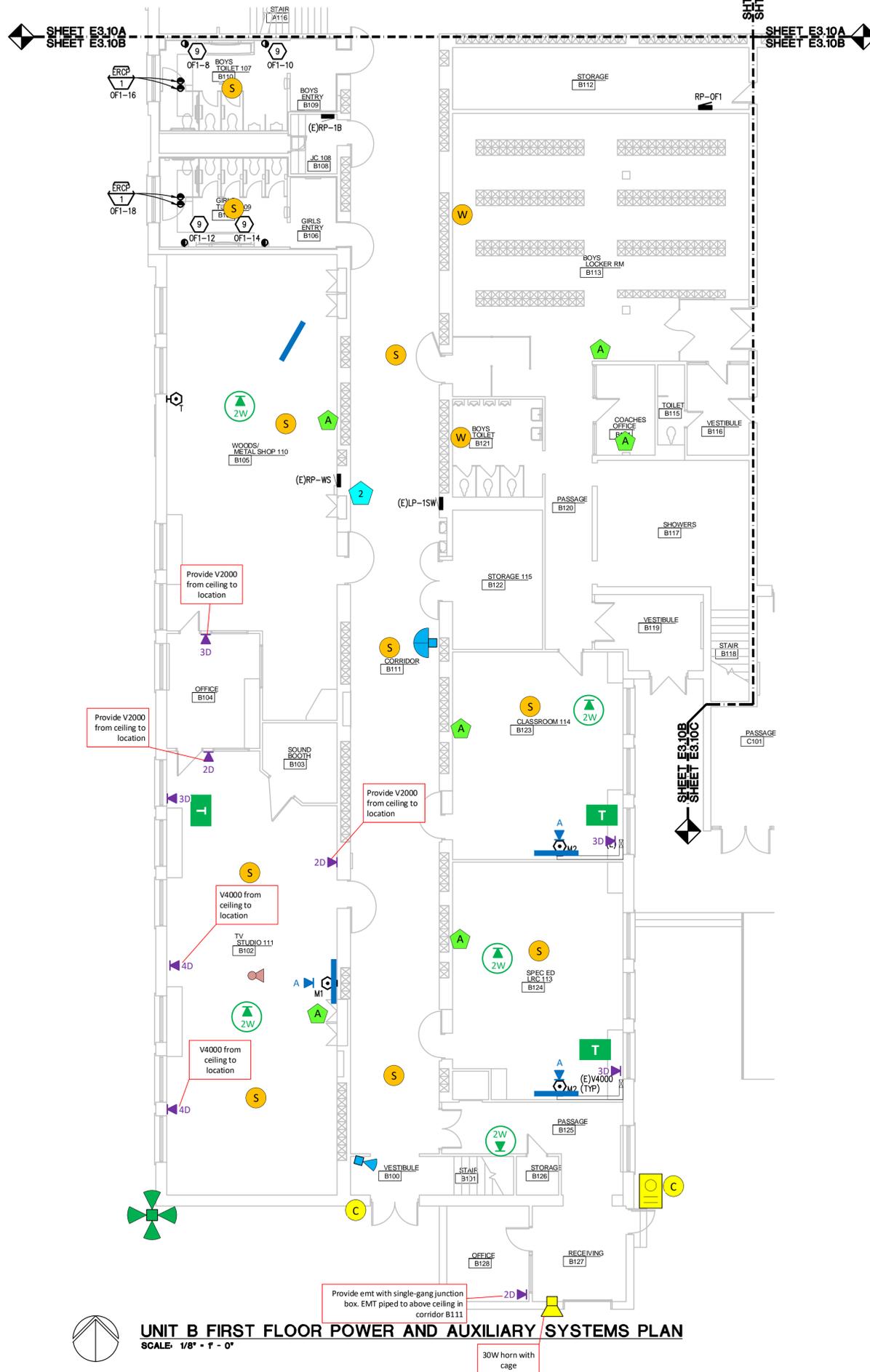
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Vertical text on the right margin: 2019-032 GROSS PIERCE MIDDLE SCHOOL RENOVATIONS

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location
- 2 x 4050 plates at the teacher location
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor...



UNIT B FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT...
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS...
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. 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.
10. REFER TO TEMPERATURE CONTROL SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS.
11. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES.
12. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT REQUIREMENTS.
13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.
14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN, EXTEND DEVICES TO FINISHED FACE OF NEW FURRING. EXTEND WIRE AS REQUIRED, PROVIDE NEW STAINLESS STEEL COVER PLATES. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FURRING LOCATIONS.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
8. RECEPTACLE FOR NEW MDF/DF RACK. COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
16. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS.
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18. NEW FIRE ALARM CONTROL PANEL. CROSS TIE INTO EXISTING FARADAY FIRE ALARM SYSTEM.

KEY PLAN

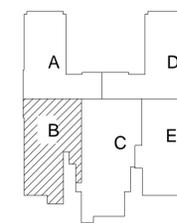


Table with columns: ISSUE DATE, ISSUED FOR. Rows: 09/20/2021, CONSTRUCTION DRAWINGS; DRAWN, ZDB; CHECKED, ZDB; APPROVED, GJZ.

Professional seals and contact information for Peter Basso Associates Inc. Consulting Engineers and EHRESMAN ARCHITECTS.

Logo and name for FRENCH associates, architects planners interiors.

236 MILL STREET ROCHESTER, MI 48307 T: 248.656.1377 frencha.com

PROJECT: GROSSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSSE POINTE PARK, MICHIGAN

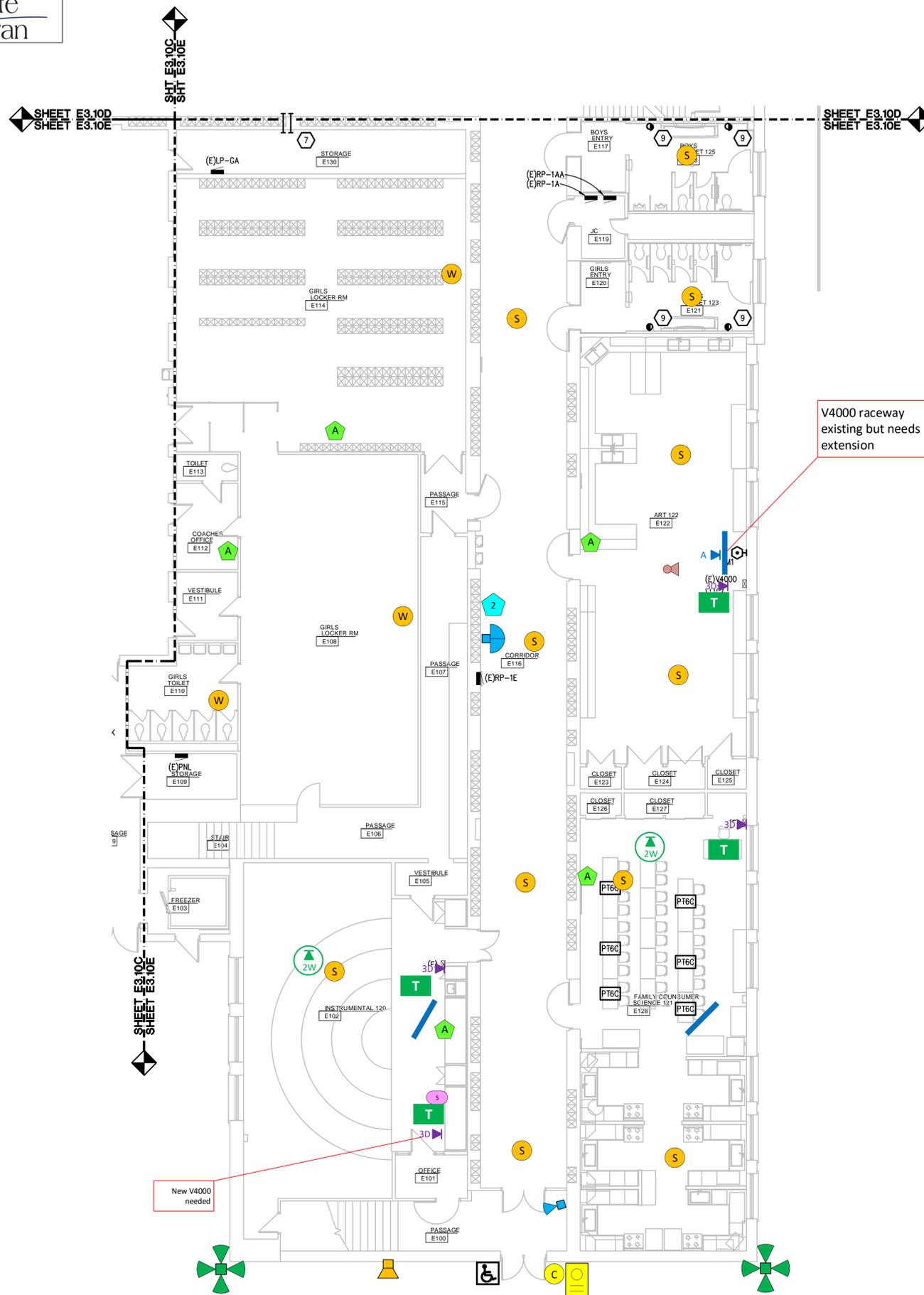
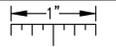
SHEET: UNIT B FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-031

SHEET NUMBER: E3.10B

Revision Date:

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



V4000 raceway existing but needs extension

New V4000 needed

Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

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4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.

ELECTRICAL GENERAL NOTES:

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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. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
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8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. 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.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
12. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAMPED STEEL FACE PLATE. STUB 1" C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE. PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL. LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL ON E7 SERIES.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
8. RECEPTACLE FOR NEW MDF/DF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO RTU SUPPLY/RETURN FAN MOTOR STARTER SUCH THAT UPON DETECTION OF SMOKE SUPPLY/RETURN FAN WILL SHUT DOWN. THIS SHALL BE ACCOMPLISHED VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WITH TEMPERATURE CONTROLS AND FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
16. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN. EXTEND DEVICES TO FINISHED FACE OF NEW FURRING. EXTEND WIRE AS REQUIRED. PROVIDE NEW STAINLESS STEEL COVER PLATES. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FURRING LOCATIONS.
17. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS. EXTEND CONDUIT AND WIRE AS REQUIRED.

KEY PLAN

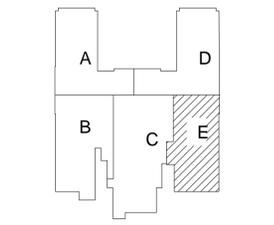


Table with columns for ISSUE DATE, ISSUED FOR, DRAWN, CHECKED, and APPROVED, with corresponding values for the project.

Logos for Peter Basso Associates Inc. Consulting Engineers and EHRESMAN ARCHITECTS, including contact information.

Logos for french associates and french architects, including address and contact information.

PROJECT: GROSSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSSE POINTE PARK, MICHIGAN

SHEET: UNIT E FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-031

SHEET NUMBER: E3.10E

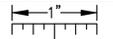
Revision Date:

UNIT E FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN SCALE: 1/8" = 1'-0"

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2019-031 0PIS PIERCE MIDDLE SCHOOL RENOVATIONS

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

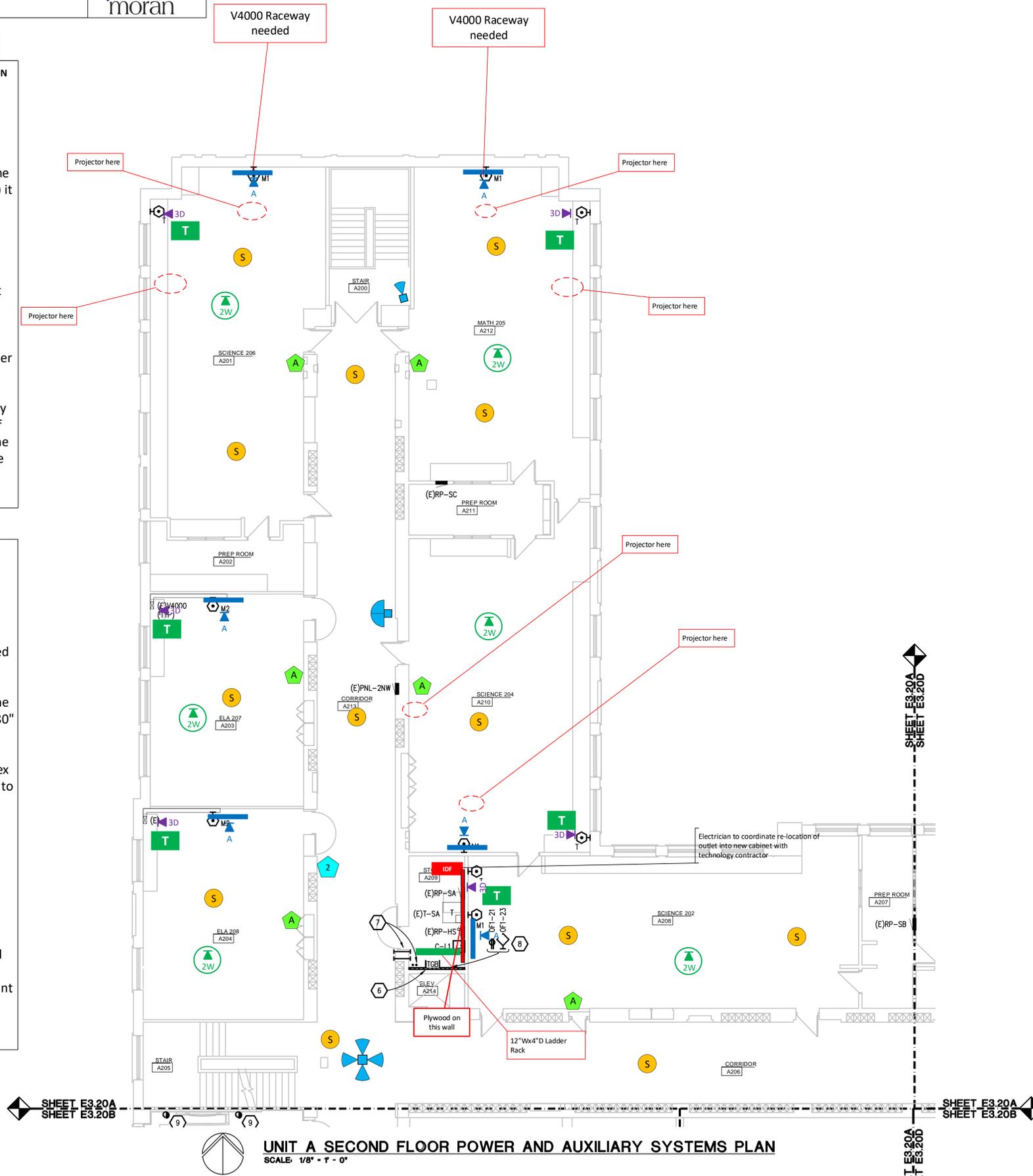


Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
- The raceway should also extend above drop ceiling to allow speaker cabling to pass through.
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.

IDF Closet Location – General Notes: TO BE PROVIDED BY OTHERS

- 1. The space should be environmentally controlled to maintain a room temperature range of 64F to 75F (18°C to 24°C) with a relative humidity level between 37% to 55% non-condensing.
2. Grounding busbars shall be provided and grounded to the main building ground.
3. Each equipment rack should have 1 – 5-20R, 120V duplex outlet.
4. One 4" trade-size conduits should be provided for a vertical riser from the first floor to the tunnel.
5. Two 4" conduits should be provided for horizontal pathway from the hallway.
6. 3/4" A/C fire treated plywood backboards to be installed behind the District-provided equipment racks.



UNIT A SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS.
11. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES.
12. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS.
13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.
14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN, EXTEND DEVICES TO FINISHED FACE OF NEW FURRING. EXTEND WIRE AS REQUIRED. PROVIDE NEW STAINLESS STEEL COVER PLATES. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FURRING LOCATIONS.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025MH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
8. RECEPTACLE FOR NEW IDF/DF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
16. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS.
17. CIRCUIT NEW TRANSFORMER TO MAINTAINED PRIMARY FEEDER.
18. NEW FIRE ALARM CONTROL PANEL. CROSS TIE INTO EXISTING FARADAY FIRE ALARM SYSTEM.

KEY PLAN

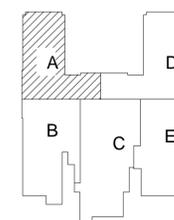


Table with columns for ISSUE DATE, ISSUED FOR, DRAWN, CHECKED, and APPROVED. Includes entries for 09/20/2021 and various roles like ZDB and G.J.Z.

Logos for Peter Basso Associates Inc. CONSULTING ENGINEERS and EHRESMAN ARCHITECTS. Includes contact information for both firms.

Logo for FRENCH associates architects planners interiors. Includes address and phone number.

PROJECT: GROSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSE POINTE PARK, MICHIGAN

SHEET: UNIT A SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

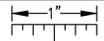
PROJECT NUMBER: 2019-031 SHEET NUMBER

E3.20A Revision Date:

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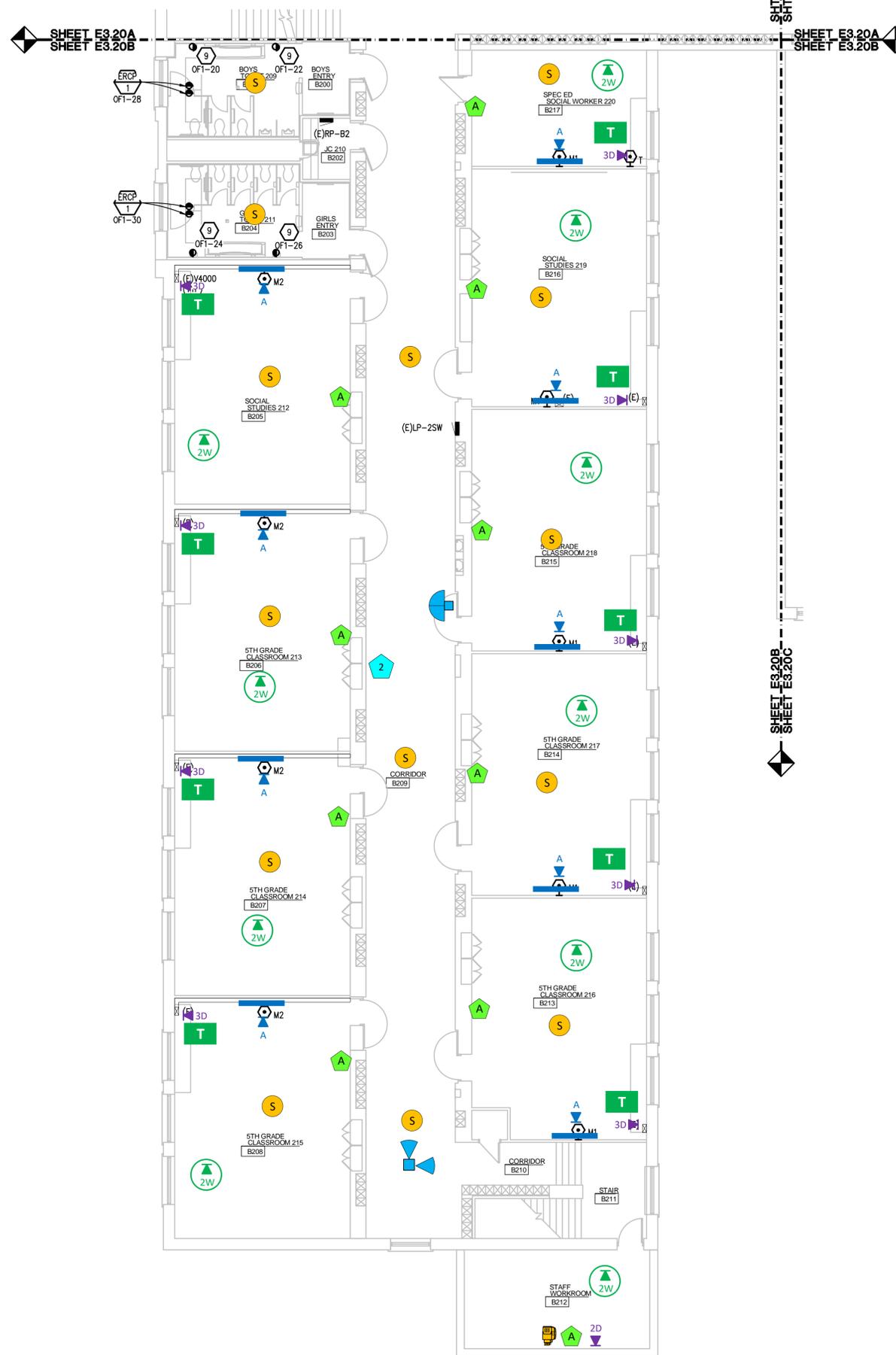
2019-032 OFFICE PIERCE MIDDLE SCHOOL RENOVATIONS

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
2. Assumed re-use of existing classroom raceway. All classroom raceway locations will require extension of the existing raceway to the above ceiling space.
3. Raceway requirements for all classrooms:
- 1 x 4050 plate at the monitor location (w/ power and blank insert over the low voltage opening)
- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
- The raceway should also extend above drop ceiling to allow speaker cabling to pass through.
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.



UNIT B SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS.
11. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES.
12. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT REQUIREMENTS.
13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.
14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN, EXTEND DEVICES TO FINISHED FACE OF NEW FURRING, EXTEND WIRE AS REQUIRED.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE, STUB 1" C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE, PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL. LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
8. RECEPTACLE FOR NEW MDF/DF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL CONTRACTOR.
16. CIRCUIT NEW TRANSFORMER TO MAINTAINED PRIMARY FEEDER. EXTEND CONDUIT AND WIRE AS REQUIRED.
17. CIRCUIT NEW TRANSFORMER TO MAINTAINED PRIMARY FEEDER. EXTEND CONDUIT AND WIRE AS REQUIRED.
18. NEW FIRE ALARM CONTROL PANEL CROSS TIE INTO EXISTING FARADAY FIRE ALARM SYSTEM.

KEY PLAN

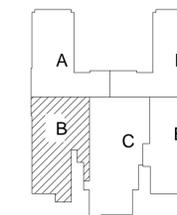


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Logo for FRENCH associates architects planners interiors. Includes contact information for French Associates.

PROJECT: GROSSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSSE POINTE PARK, MICHIGAN

SHEET: UNIT B SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

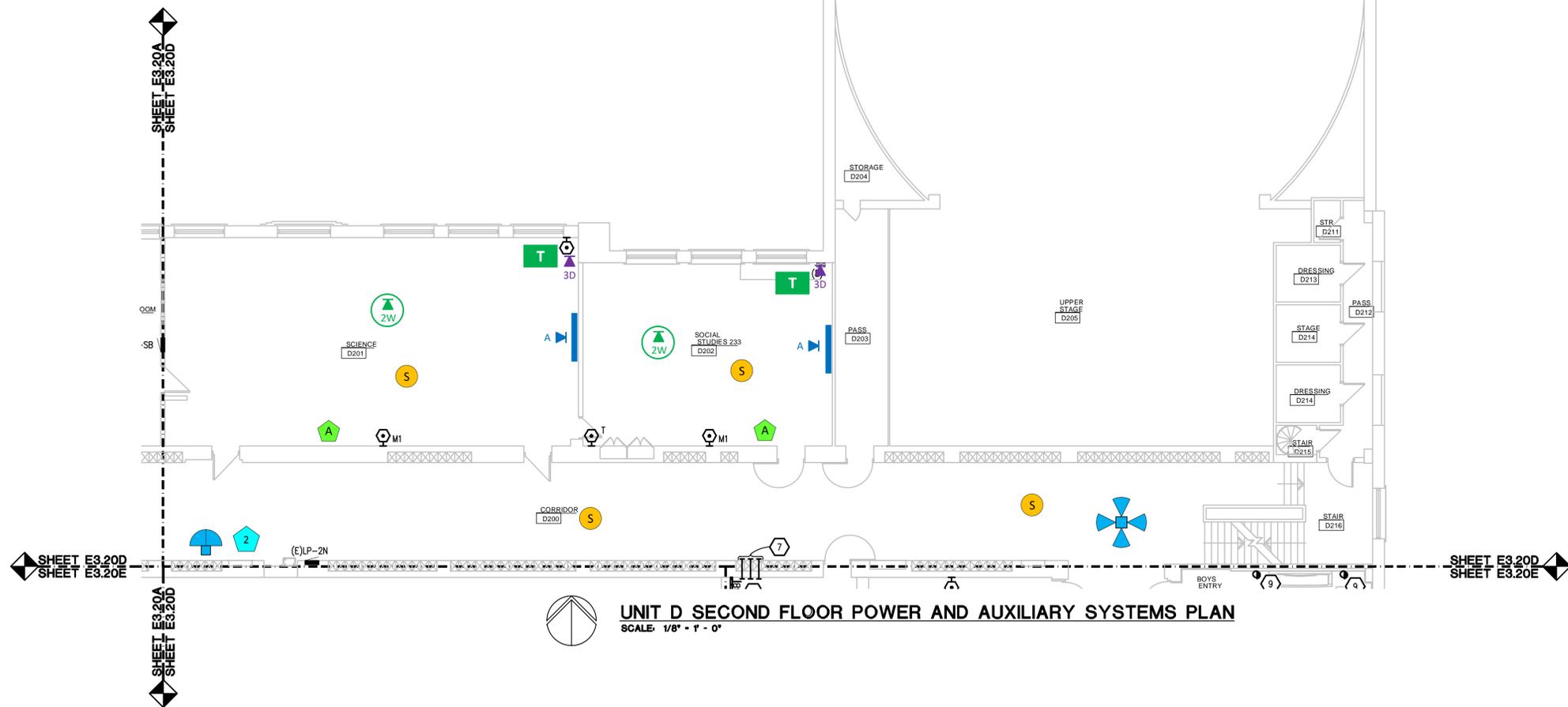
PROJECT NUMBER: 2019-031 SHEET NUMBER: E3.20B

Revision Date:

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

Infrastructure Requirements – General Notes: WHERE THESE NOTES ARE IN CONFLICT WITH THE CONSTRUCTION NOTES THESE NOTES SHALL PREVAIL.

- 1. Provide two (2) 1-1/4" conduits into each classroom/office space.
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- 2 x 4050 plates at the teacher location (w/ power and open inset over the low voltage openings)
4. Abandoned low-voltage raceway openings will be the responsibility of the technology contractor to provide the proper blank openings.



UNIT D SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN
SCALE: 1/8" = 1' - 0"

ELECTRICAL GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. 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. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. 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.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. PROVIDE THE DESIGN AND INSTALLATION FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
12. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
13. CIRCUIT NEW EXIT SIGNS TO UNSWITCHED HOT-LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.
14. WHERE WALLS ARE BEING FURRED OUT AND EXISTING DEVICES ARE TO REMAIN, EXTEND DEVICES TO FINISHED FACE OF NEW FURRING. EXTEND WIRE AS REQUIRED. PROVIDE NEW STAINLESS STEEL COVER PLATES. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FURRING LOCATIONS.

CONSTRUCTION KEY NOTES:

- 1. PROVIDE 120V CIRCUITING IN CEILING SPACE FOR DOOR SECURITY AND CONTROLS. REFER TO ARCHITECTURAL FLOOR PLANS, DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS, ACCESS CONTROL SYSTEM SPECIFICATION SECTION AND ACCESS CONTROL DIAGRAM(S) ON E7 SERIES FOR RACEWAYS AND BACK BOXES REQUIRED FOR DOOR OR BANK OF DOORS INDICATED. PROVIDE ALL REQUIRED RACEWAYS AND BACK BOXES. COORDINATE WITH DOOR HARDWARE CONTRACTOR. PROVIDE 1" CONDUIT FROM ARCHITECTURAL CASEWORK DOOR RELEASE BUTTON TO ACCESSIBLE CEILING SPACE ABOVE DOORS FOR SECURITY DOOR RELEASE.
2. FUTURE CARD ACCESS LOCATION. PROVIDE RECESSED SINGLE GANG JUNCTION BOX WITH BLANK STAINLESS STEEL FACE PLATE. STUB 1" C. UP INTO ACCESSIBLE CORRIDOR CEILING SPACE, PROVIDE NYLON PULL STRING WITH PLASTIC BUSHING ON END OF CONDUIT.
3. PUSH PAD FOR AUTOMATIC DOORS. ALL DOOR AND PUSH PAD HARDWARE IS PROVIDED BY DOOR CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PUSH PADS AND PROVIDE CONDUIT AND WIRE FOR COMPLETE OPERATION. COORDINATE WITH DOOR CONTRACTOR. PUSH PAD BACK BOX IS 2-GANG. NO EXTERIOR SURFACE MOUNT CONDUIT IS ACCEPTABLE.
4. CIRCUIT NEW MECHANICAL EQUIPMENT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
5. NEW CEILING FAN. PROVIDE KITCHLER MODEL 330025WH AND NEW MULTI-FAN CONTROLLER MODEL 3700032MUL. LOCATE NEW CONTROLS WHERE EXISTING WAS REMOVED, UNLESS OTHERWISE INDICATED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. NEW TELECOMMUNICATIONS GROUND BUS. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL ON E7 SERIES.
7. 4" CONDUIT SLEEVES. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR. PROVIDE PLASTIC BUSHING WITH PULL STRING. PROVIDE FIRE STOP AS REQUIRED.
8. RECEPTACLE FOR NEW MDF/DF RACK COORDINATE FINAL LOCATION AND NEMA CONFIGURATION WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH IN.
9. NEW ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
10. DOOR INTERCOM. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
11. SECURITY MONITOR. LOCATE 84" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
12. P.A. EMERGENCY PUSH BUTTON STATION. PROVIDE SINGLE GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
13. P.A. CONSOLE. PROVIDE 2 GANG JUNCTION BOX WITH 1" C. TO ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
14. PROVIDE (2) 1 1/4" CONDUIT SLEEVES WITH PLASTIC BUSHING AND PULL STRING. COORDINATE FINAL LOCATION WITH TECHNOLOGY CONTRACTOR.
15. DUCT SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE MOUNTING LOCATION AND QUANTITY WITH MECHANICAL DUCTWORK CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE DUCT SMOKE DETECTOR TO RTU SUPPLY/RETURN FAN MOTOR STARTER SUCH THAT UPON DETECTION OF SMOKE, SUPPLY/RETURN FAN WILL SHUT DOWN. THIS SHALL BE ACCOMPLISHED VIA THE FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED CONTROL MODULES AND RELAYS. COORDINATE WITH TEMPERATURE CONTROLS AND FIRE ALARM CONTRACTOR. PROVIDE WEATHER PROOF ENCLOSURES AS REQUIRED.
16. CIRCUIT NEW PANELBOARD TO MAINTAINED FEEDERS AND BRANCH CIRCUITS. EXTEND CONDUIT AND WIRE AS REQUIRED.
17. CIRCUIT NEW TRANSFORMER TO MAINTAINED PRIMARY FEEDER. EXTEND CONDUIT AND WIRE AS REQUIRED.
18. NEW FIRE ALARM CONTROL PANEL. CROSS TIE INTO EXISTING FARADAY FIRE ALARM SYSTEM.

KEY PLAN table with grid lines A-E and B-E. ISSUE DATE: 09/20/2021. ISSUED FOR: CONSTRUCTION DRAWINGS. DRAWN: ZDB. CHECKED: ZDB. APPROVED: G.J.Z.

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PROJECT: GROSSE POINTE PUBLIC SCHOOLS PIERCE MS RENOVATIONS GROSSE POINTE PARK, MICHIGAN

SHEET: UNIT D SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

PROJECT NUMBER: 2019-031

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