

DEMOLITION ONE LINE DIAGRAM NOT TO SCALE

GENERAL NOTES:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE ADVANCE NOTICE TO OWNER PRIOR TO ANY ELECTRICAL SERVICE SHUT-DOWN(S).
- B. ANY EQUIPMENT, AS WELL AS IT'S ASSOCIATED FEEDERS, CIRCUITING AND CONDUITS LABELED (E) SHALL REMAIN UNLESS OTHERWISE NOTED.
- C. EXISTING AS-BUILT INFORMATION SHOWN ON DRAWINGS HAS BEEN TAKEN FROM EXISTING DOCUMENTS AND FIELD OBSERVATION. NOT ALL EXISTING RACEWAYS, DEVICES, JUNCTION BOXES, ETC. MAY BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING EQUIPMENT AND EXACT CONDUIT ROUTING TO NEW AUTOMATIC TRANSFER SWITCH DURING CONSTRUCTION.
- D. CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD SCHEDULE FOR ANY PANELBOARDS AFFECTED DURING CONSTRUCTION.
- E. REFER TO DRAWINGS CES-E100 AND CES-E101 FOR LOCATIONS OF ALL EXISTING AND DEMO EQUIPMENT.
- F. FOR EXISTING FEEDERS SHOWN BEING REMOVED IN THEIR ENTIRETY BACK TO SOURCE; THE ELECTRICAL CONTRACTOR HAS THE OPTION TO RE-USE A FEEDER PORTION IF LOCATION, SIZE AND CONDITION OF THAT FEEDER PERMITS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF POSSIBLE FEEDER RE-USE. UPON APPROVAL FROM ENGINEER, CONTRACTOR SHALL INSTALL ASSOCIATED JUNCTION/SPLICE BOX SIZED PER NEC AND SPLICES TO ACCOMMODATE EXTENSION OF EXISTING FEEDER WITH SIZE SHOWN OF NEW ON ONE-LINE DIAGRAM.

KEY NOTES:

- DISCONNECT AND REMOVE MAIN SWITCHGEAR IN ITS ENTIRETY. FEEDER CONDUITS TO REMAIN. PULL BACK CONDUITS AS NECESSARY TO REMOVE EXISTING PANELBOARD. LABEL ALL CONDUITS ACCORDINGLY FOR RECONNECTION.
- 2) DISCONNECT AND REMOVE EXISTING PANELBOARD IN ITS ENTIRETY. PULL BACK ALL BRANCH CIRCUITRY CONDUIT AND WIRING AS NECESSARY TO REMOVE EXISTING PANELBOARD. LABEL ALL BRANCH CIRCUITRY ACCORDINGLY FOR RECONNECTION.
- 3) DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH IN ITS ENTIRETY. FEEDER CONDUITS TO REMAIN. PULL BACK CONDUITS AS NECESSARY TO REMOVE EXISTING DISCONNECT SWITCH. LABEL ALL CONDUITS ACCORDINGLY FOR RECONNECTION.
- DISCONNECT AND REMOVE EXISTING TRANSFORMER IN ITS ENTIRETY. FEEDER CONDUITS TO REMAIN. PULL BACK CONDUITS AS NECESSARY TO REMOVE EXISTING TRANSFORMER. ALL MOUNTING EQUIPMENT TO REMAIN. LABEL ALL CONDUITS ACCORDINGLY FOR RECONNECTION.
- 5) DISCONNECT AND REMOVE EXISTING FEEDER WIRING. CONDUIT TO REMAIN. LABEL ALL CONDUITS ACCORDINGLY FOR RECONNECTION.
- 6 EXISTING PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, FEEDERS AND CONDUIT TO REMAIN.
- 7) DISCONNECT AND REMOVE EXISTING FEEDER CONDUIT AND WIRING BACK TO SOURCE.
- 8 DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH IN ITS ENTIRETY. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.



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	DESCRIPTION	BID ADDENDUM 02	
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REVISIONS	DATE	03/29/21	
REVI	NO.	l	

PINE BUSH CSD

2019 CAPITAL IMPROVEMENT PROJECT
PHASE 2

PINE BUSH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015
CIRCLEVILLE ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-009-016

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DATE	DRAWN	CHECKE
03/08/2021	MAY	JBT

scale AS NOTED

SHEET TITLE

ELECTRICAL ONE-LINE
DIAGRAM

DEMOLITION

PROJECT NUMBER 14533.05

EOO1

EXISTING

800-AMP

DISCONNECT

SWITCH

TO UTILITY S

NEW 800-AMP, 277/480V, 3Ø, 4W MAIN SWITCHGEAR (1)

5 5KVA

EXISTING FIRE ALARM PANEL

120/240V 1Ø 3W

30A/2P

—(2) #12, (1)

#12GND

480Δ-120/240

1Ø 3W

400A/3P

200A/3P

200A/3P

30A/2P

EXTERIOR

LIGHTING

—(2) #12, (1)

#12GND

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- C. EXISTING AS-BUILT INFORMATION SHOWN ON DRAWINGS HAS BEEN TAKEN FROM EXISTING DOCUMENTS AND FIELD OBSERVATION. NOT ALL EXISTING RACEWAYS, DEVICES, JUNCTION BOXES, ETC. MAY BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING EQUIPMENT AND EXACT CONDUIT ROUTING TO NEW AUTOMATIC TRANSFER SWITCH DURING CONSTRUCTION.
- D. CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD SCHEDULE FOR ANY PANELBOARDS AFFECTED DURING CONSTRUCTION.
- E. REFER TO DRAWINGS CES-E200 AND CES-E201 FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT.
- F. ALL NEW CIRCUIT BREAKERS SHALL BE UL LISTED/LABELED AND SHALL MATCH INTERRUPTING RATING OF EXISTING PANEL.
- G. FOR EXISTING FEEDERS SHOWN BEING REMOVED IN THEIR ENTIRETY BACK TO SOURCE; THE ELECTRICAL CONTRACTOR HAS THE OPTION TO RE-USE A FEEDER PORTION IF LOCATION, SIZE AND CONDITION OF THAT FEEDER PERMITS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF POSSIBLE FEEDER RE-USE. UPON APPROVAL FROM ENGINEER, CONTRACTOR SHALL INSTALL ASSOCIATED JUNCTION/SPLICE BOX SIZED PER NEC AND SPLICES TO ACCOMMODATE EXTENSION OF EXISTING FEEDER WITH SIZE SHOWN OF NEW ON ONE-LINE DIAGRAM.

KEY NOTES:

200A/3P 150AT

100A/3P

SPARE

200A/3P

100A/3P

- PROVIDE NEW MAIN SWITCHGEAR AS NOTED. PANEL TO BE PLACED IN LOCATION OF PREVIOUSLY REMOVED. RE-CONNECT ALL EXISTING FEEDER CONDUITS TO NEW PANEL. LABEL ALL NEW CIRCUIT BREAKERS AS PREVIOUSLY NOTED.
- (2) PROVIDE NEW PANELBOARD AS NOTED. PANEL TO BE PLACED IN LOCATION OF PREVIOUSLY REMOVED. RE-CONNECT ALL EXISTING FEEDER CONDUITS TO NEW PANEL. RE-CONNECT ALL EXISTING BRANCH CIRCUITRY TO NEW PANEL. LABEL ALL NEW CIRCUIT BREAKERS AS PREVIOUSLY
- (3) PROVIDE FEEDER WIRING SIZED AS NOTED. RE-USE EXISTING CONDUIT.
- (4) PROVIDE NEW DISCONNECT SWITCH AS NOTED. DISCONNECT SWITCH TO BE PLACED IN LOCATION OF PREVIOUSLY REMOVED. RE-CONNECT ALL EXISTING FEEDER CONDUITS TO NEW
- (5) PROVIDE NEW TRANSFORMER AS NOTED. TRANSFORMER TO BE PLACED IN LOCATION OF PREVIOUSLY REMOVED. UTILIZE EXISTING MOUNTING HARDWARE. RE-CONNECT ALL EXISTING FEEDER CONDUITS TO NEW TRANSFORMER.
- 6 EXISTING PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, FEEDERS AND CONDUIT TO

LEGEND:

	CIRCUIT LEGEND	DEMO	
	3Ø. 4W	EXISTING	
CKT ID		NEW	
CKT. I.D.	WIRE AND CONDUIT	14544	
A3	3#12, 1#12G, 3/4"C		
A4	4#12, 1#12G, 3/4"C		
В3	3#10, 1#10G, 3/4"C		
B4	4#10, 1#10G, 3/4"C		
C3	3#8, 1#10G, 1"C		
C4	4#8, 1#10G, 1"C		
D3	3#6, 1#10G, 1"C		
D4	4#6, 1#10G, 1"C		
E3	3#4, 1#10G, 1 1/4"C		
E4	4#4, 1#10G, 1 1/4"C		
F3	3#4, 1#8G, 1 1/4"C		
F4	4#4, 1#8G, 1 1/4"C		

G3 3#3, 1#8G, 1 1/4"C G3 3#3, 1#8G, 1 1/4"C G4 4#3, 1#8G, 1 1/4"C H3 3#2, 1#6G, 1 1/2"C H4 4#2, 1#6G, 1 1/2"C J4 4#1, 1#8G, 1 1/2"C K3 3#1/0, 1#6G, 2"C K4 4#1/0, 1#6G, 2"C 4 4#2/0, 1#6G, 2"C 4 4#3/0, 1#4G, 2 1/2"C 4 4#3/0, 1#4G, 2 1/2"C 4-250KCM, 1#4G, 2 1/2"C 4-250KCM, 1#4G, 2 1/2"C 4-350KCM, 1#2G, 3 1/2"C 2 ea.[4-44/0, 1#4G, 2 1/2"C] 2 ea.[4-350KCM, 1#1/0G, 3", 2 ea.[4-350KCM, 1#1/0G, 3], 2 ea.[4-350KCM, 1#1/0G, 3], 2 ea.[4-350KCM, 1#1/0G, 3], 2 ea.[4-350KCM, 1#1/0G, 3], 3 ea.[4-500KCM, 1#2/0G, 4"C] 4 ea.[4-350KCM, 1#1/0G, 3"C] 5 ea.[4-500KCM, 1#2/0G, 4"C] 6 ea.[4-500KCM, 1#4/0G, 4"C] 6 ea.[4-500KCM, 1#1/0G, 4"C] 6 ea.[4-500KCM, 1#1/0G, 4"C]

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03/08/2021 MAY

2019

SCALE AS NOTED SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM NEW WORK

14533.05

DRAWING NUMBER

A. AT EACH X SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING CES-E900.

KEY NOTES:

- 1 PROVIDE NEW PANELBOARD AT LOCATION SHOWN. MODIFY EXISTING OPENING TO ACCOMMODATE NEW PANEL AS REQUIRED.
 RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING CES-E001 AND PANEL REPLACEMENT SCHEDULE ON CES-E900 SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE NEW PANELBOARD AT LOCATION SHOWN. RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING CES-E001 AND PANEL REPLACEMENT SCHEDULE ON CES-E900 FOR FURTHER INFORMATION.
- 3) PROVIDE NEW TRANSFORMER AT LOCATION SHOWN. REFER TO DRAWING CES-E001 FOR FURTHER INFORMATION.
- ONCE NEW CEILING IS IN PLACE, REINSTALL ALL LIGHTING AND CEILING MOUNTED DEVICES BACK IN SIMILAR LOCATIONS. CONNECT TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CONDUIT/WIRING AS NECESSARY TO ACCOMMODATE POSSIBLE NEW LOCATIONS.



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PINE BUSH CSD

319 CAPITAL IMPROVEMENT PROJECT

PHASE 2

PINE BUSH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015

CIRCLEVILLE MIDDLE SCHOOL - SED #: 44-04-01-06-0-014-015

CIRCLEVILLE ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-009-016

DATE DRAWN CHECK 03/08/2021 MAY JB' SCALE 1/16" = 1'-0"

SHEET TITLE

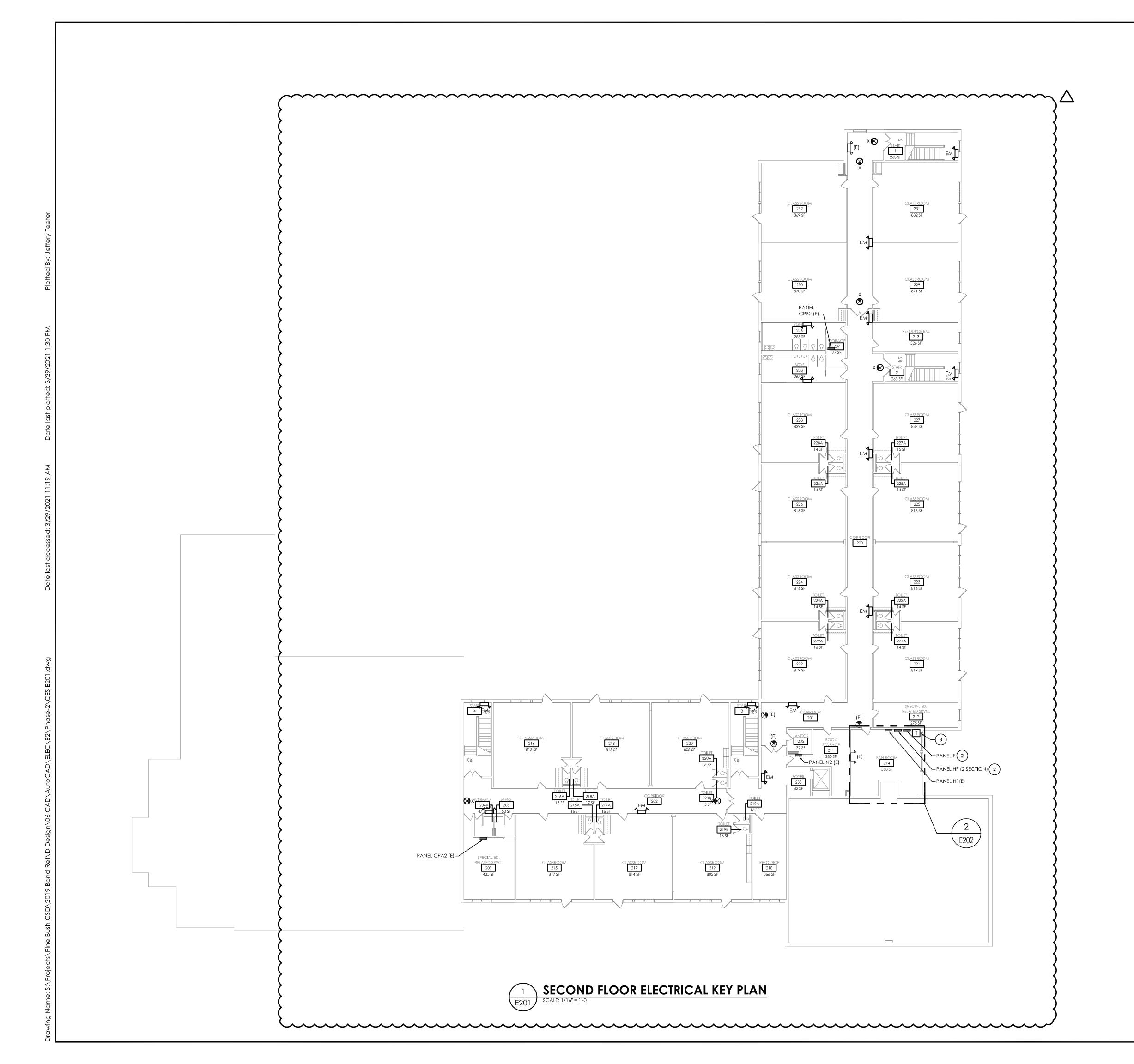
FIRST FLOOR

ELECTRICAL NEW WORK

PLAN

PROJECT NUMBER

CES E200



A. AT EACH $\stackrel{\times}{\times}$ SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING CES-E900.

KEY NOTES:

- 1 PROVIDE NEW PANELBOARD AT LOCATION SHOWN. MODIFY EXISTING OPENING TO ACCOMMODATE NEW PANEL AS REQUIRED.
 RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING CES-E001 AND PANEL REPLACEMENT ON CES-E900 SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE NEW PANELBOARD AT LOCATION SHOWN. RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING CES-E001 AND PANEL REPLACEMENT SCHEDULE ON CES-E900 FOR FURTHER INFORMATION.
- 3 PROVIDE NEW TRANSFORMER AT LOCATION SHOWN. REFER TO DRAWING CES-E001 FOR FURTHER INFORMATION.



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FAL IMPROVEMENT PROJECT
PHASE 2

HIGH SCHOOL - SED #: 44-04-01-06-0-014-015

EMENTARY SCHOOL - SED #: 44-04-01-06-0-009-016

DATE DRAWN CHECK 03/08/2021 MAY JBT SCALE 1/16" = 1'-0"

SECOND FLOOR ELECTRICAL NEW WORK PLAN

PROJECT NUMBER 14533.05

E201

A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE ADVANCE NOTICE TO OWNER

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SCALE AS NOTED SHEET TITLE

2019

ELECTRICAL ONE-LINE DIAGRAM DEMOLITION

14533.05

CVMS DRAWING NUMBER

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PINE BUSH CSD CAPITAL IMPROVEMENT PROJECT

MAY

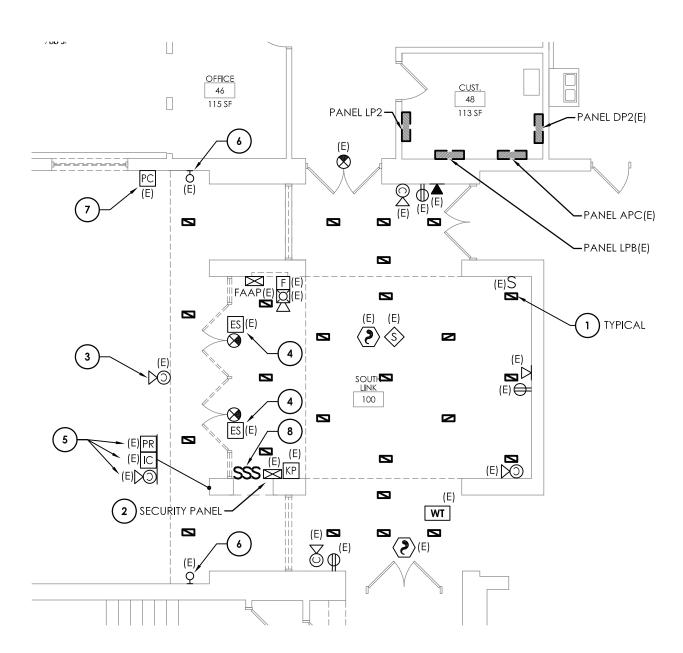
SCALE AS NOTED

ELECTRICAL ONE-LINE DIAGRAM

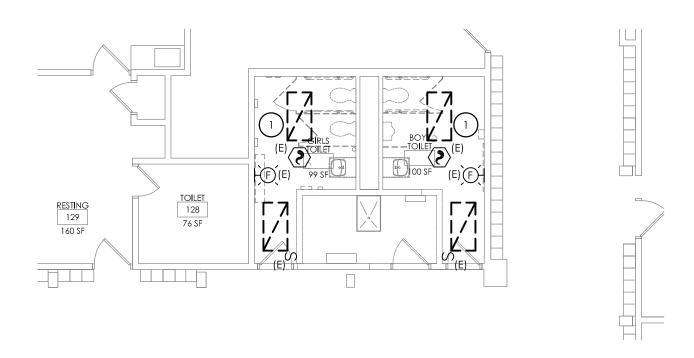
NEW WORK

14533.05

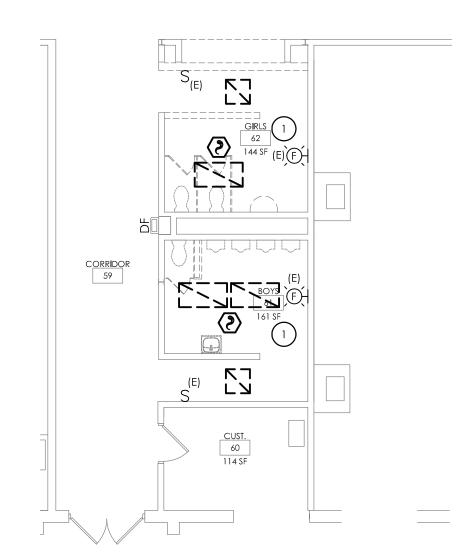
DRAWING NUMBER



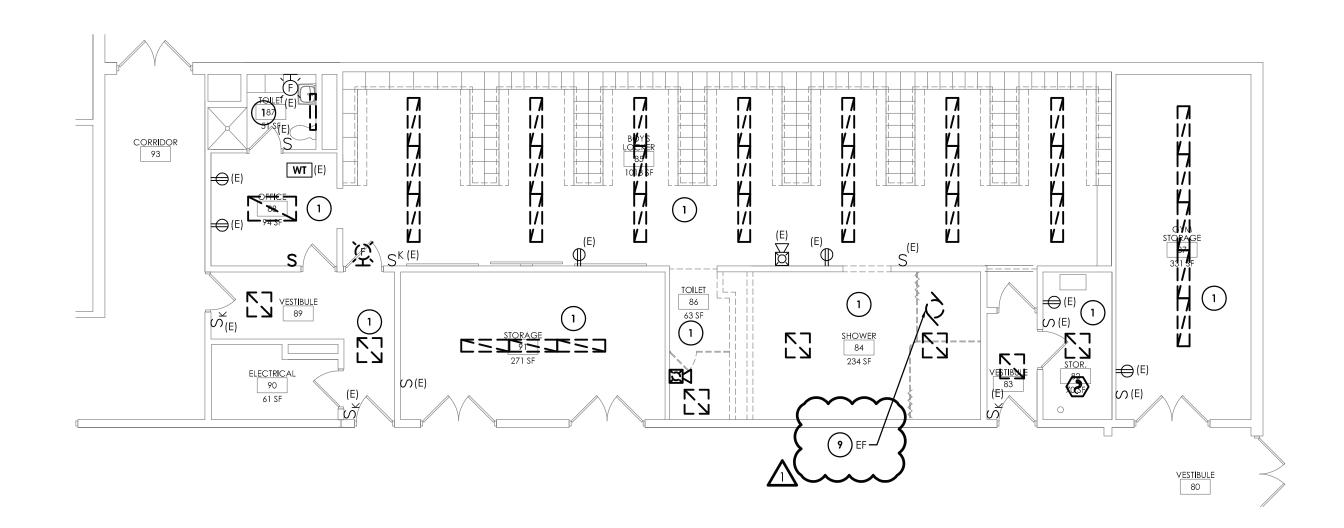
FIRST FLOOR ELECTRICAL DEMOLITION PLAN



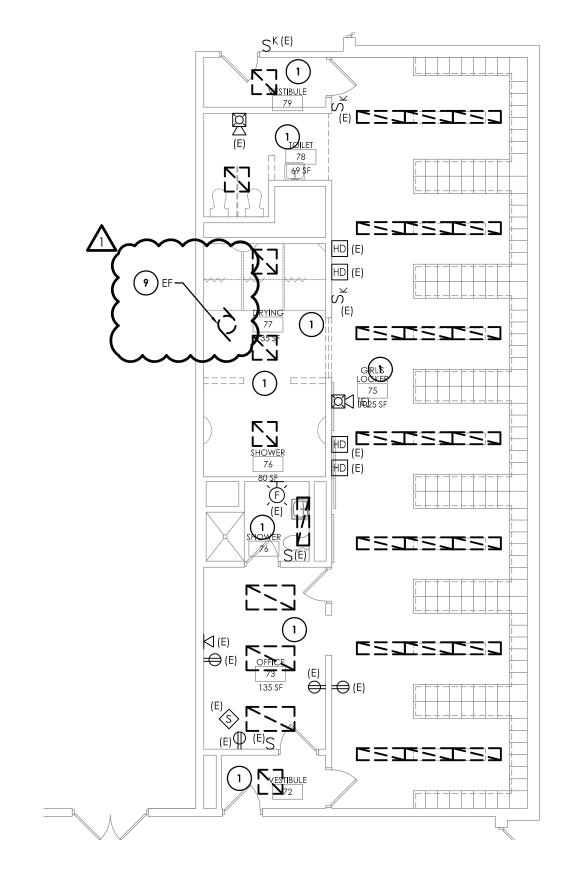
FIRST FLOOR ELECTRICAL DEMOLITION PLAN



FIRST FLOOR ELECTRICAL DEMOLITION PLAN



SECOND FLOOR ELECTRICAL DEMOLITION PLAN



SECOND FLOOR ELECTRICAL DEMOLITION PLAN

GENERAL NOTES:

- A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING TO REMAIN. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.
- B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.
- D. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.
- E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
- F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.
- G. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL
- H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS AND/OR EQUIPMENT BEING REMOVED AS PART OF THE PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.
- I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.
- J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES:

- ig($_1$ ig) disconnect and remove all lighting as shown. Pull back CONDUIT AND WIRING TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE.
- 2 EXISTING SECURITY PANEL TO BE RELOCATED TO NEW SECURITY OFFICE. DISCONNECT AND STORE FOR RE-USE. TAG ALL WIRING FOR
- (3) EXISTING CAMERAS TO BE RELOCATED. STORE FOR RE-USE. TAG ALL WIRING FOR RE-USE.
- 4) DISCONNECT EXISTING POWER TO ELECTRIC DOOR STRIKES. PULL WIRING BACK TO ABOVE CEILING AND TAG FOR RE-USE. REMOVE JUNCTION BOXES AND SURFACE RACEWAY IN THEIR ENTIRETY.
- (5) DISCONNECT AND REMOVE EXISTING CARD READER, INTERCOM/CAMERA, AND DOOR BUZZER. STORE FOR RE-USE. PULL WIRING BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE. PROVIDE STAINLESS STEEL COVER PLATES OVER EMPTY BOXES.
- (6) DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. STORE FOR RELOCATION. PULL WIRING BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE. PROVIDE STAINLESS STEEL COVER PLATE OVER EMPTY BOX.
- 7) DISCONNECT AND REMOVE EXISTING PHOTOCELL. STORE FOR RELOCATION. PULL WIRING BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR RE-USE. PROVIDE STAINLESS STEEL COVER PLATE OVER EMPTY BOX.
- (8) DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES. PULL ALL WIRING BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR
- 9) DISCONNECT EXISTING EQUIPMENT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.



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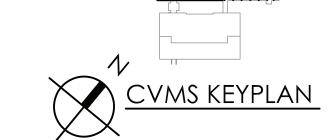
SCALE 1/8'' = 1'-0''

2019

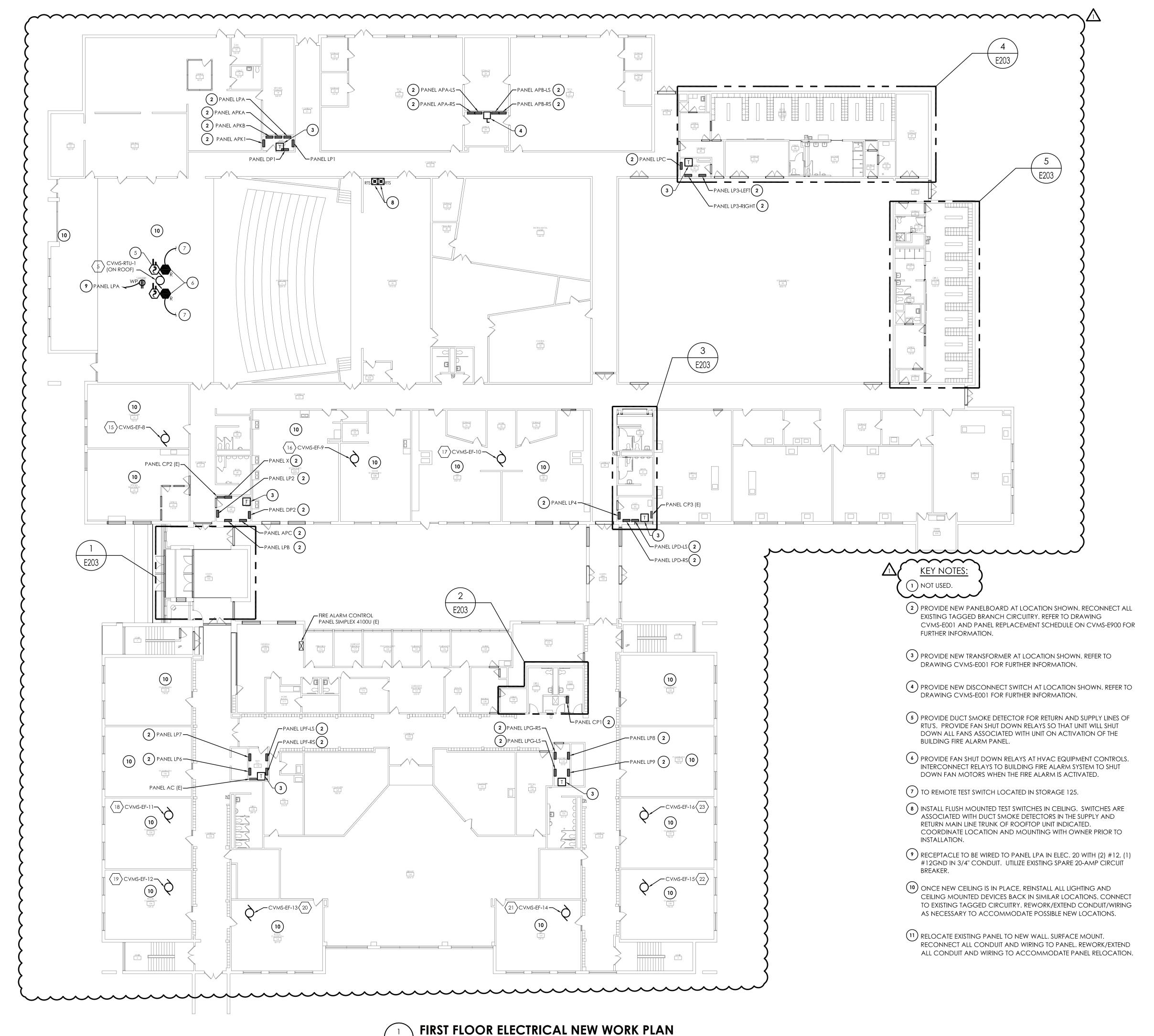
SHEET TITLE FIRST FLOOR ELECTRICAL DEMOLITION PARTIAL PLANS

> PROJECT NUMBER 14533.05









- A. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.
- B. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.
- D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.
- E. ALL NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT FAN UPON ACTIVATION OF FIRE ALARM SYSTEM.
- F. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0"
- G. THE CONTRACTOR SHALL PROVIDE NEW NOTIFICATION APPLIANCE (NAC) PANEL ON EACH FLOOR TO ACCOMMODATE NEW NOTIFICATION DEVICES. PANELS SHALL BE LOCATED IN ACCESSIBLE CLOSET SPACE ON ASSOCIATED FLOOR, COORDINATE EXACT PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION. SERVE NEW NAC PANEL FROM NEAREST AVAILABLE 120VAC PANELBOARD SOURCE WITH (2) #12, #12 G IN 1/2" EMT CONDUIT. CIRCUIT LENGTHS EXCEEDING 100' SHALL BE WITH #10 AWG. PROVIDE 20/1 CIRCUIT BREAKER IN AVAILABLE PANEL SPACE AND ASSOCIATED "BREAKER ON" LOCK. NEW CIRCUIT BREAKER SHALL BE U.L. LISTED AND MATCH EXISTING PANEL INTERRUPTING RATING.
- H. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.
- I. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.
- J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON A FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.
- K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".
- L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.
- M. REFER TO MANUFACTURER INSTALLATION GUIDELINES FOR DUCT SMOKE DETECTOR INSTALLATION.
- N. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.
- O. AT EACH $\langle x \rangle$ SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING CVMS-E900.
- P. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO, 914-241-0057.

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ARCHITECTURE - ENGINEERING - PLANNING

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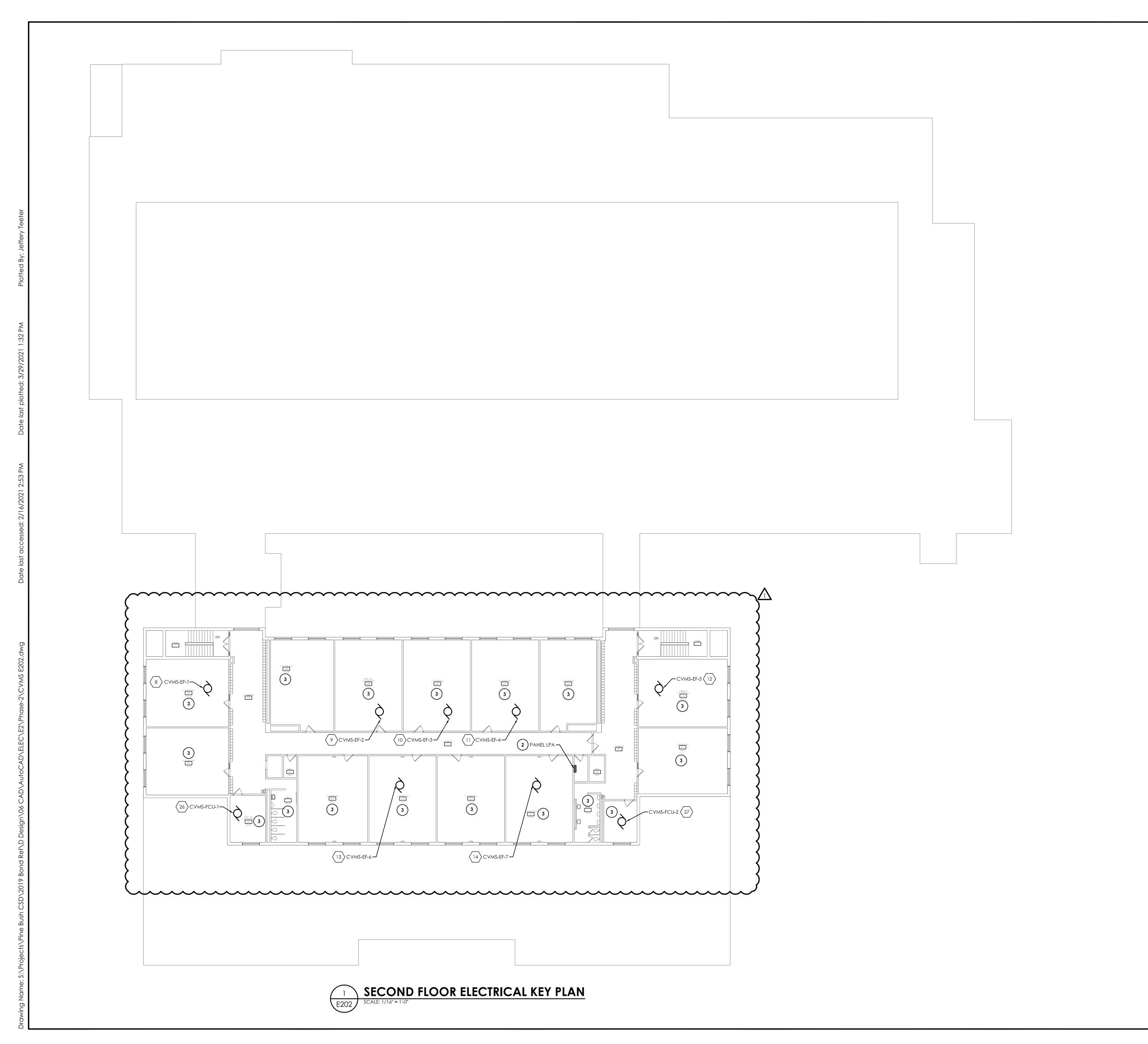
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03/08/2021 MAY

SCALE 1/16'' = 1'-0''

SHEET TITLE FIRST FLOOR ELECTRICAL KEY PLAN

PROJECT NUMBER 14533.05 DRAWING NUMBER





A. AT EACH X SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING CVMS-E900.



PROVIDE NEW PANELBOARD AT LOCATION SHOWN. RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING CVMS-E001 AND PANEL REPLACEMENT SCHEDULE ON CVMS-E900 FOR FURTHER INFORMATION.

REPLACE EXISTING CEILING MOUNTED DEVICES ONCE NEW CEILING IS INSTALLED. PLACE ALL DEVICES AT OR NEAR PREVIOUS LOCATIONS. RE-CONNECT TO EXISTING TAGGED WIRING.

ONCE NEW CEILING IS IN PLACE, REINSTALL ALL LIGHTING AND CEILING MOUNTED DEVICES BACK IN SIMILAR LOCATIONS. CONNECT TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CONDUIT/WIRING AS NECESSARY TO ACCOMMODATE POSSIBLE NEW LOCATIONS.



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REVI	NO.	_
REVISIONS	DATE	03/29/21
	ВУ	JBT
	DESCRIPTION	BID ADDENDUM 02

PINE BUSH CSD

2019 CAPITAL IMPROVEMENT PROJECT
PINE BUSH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015
CIRCLEVILLE ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-009-016
PAKANASINK ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-009-015

DATE DRAWN CHECK
03/08/2021 MAY JBT

SCALE 1/16" = 1'-0"

SHEET TITLE

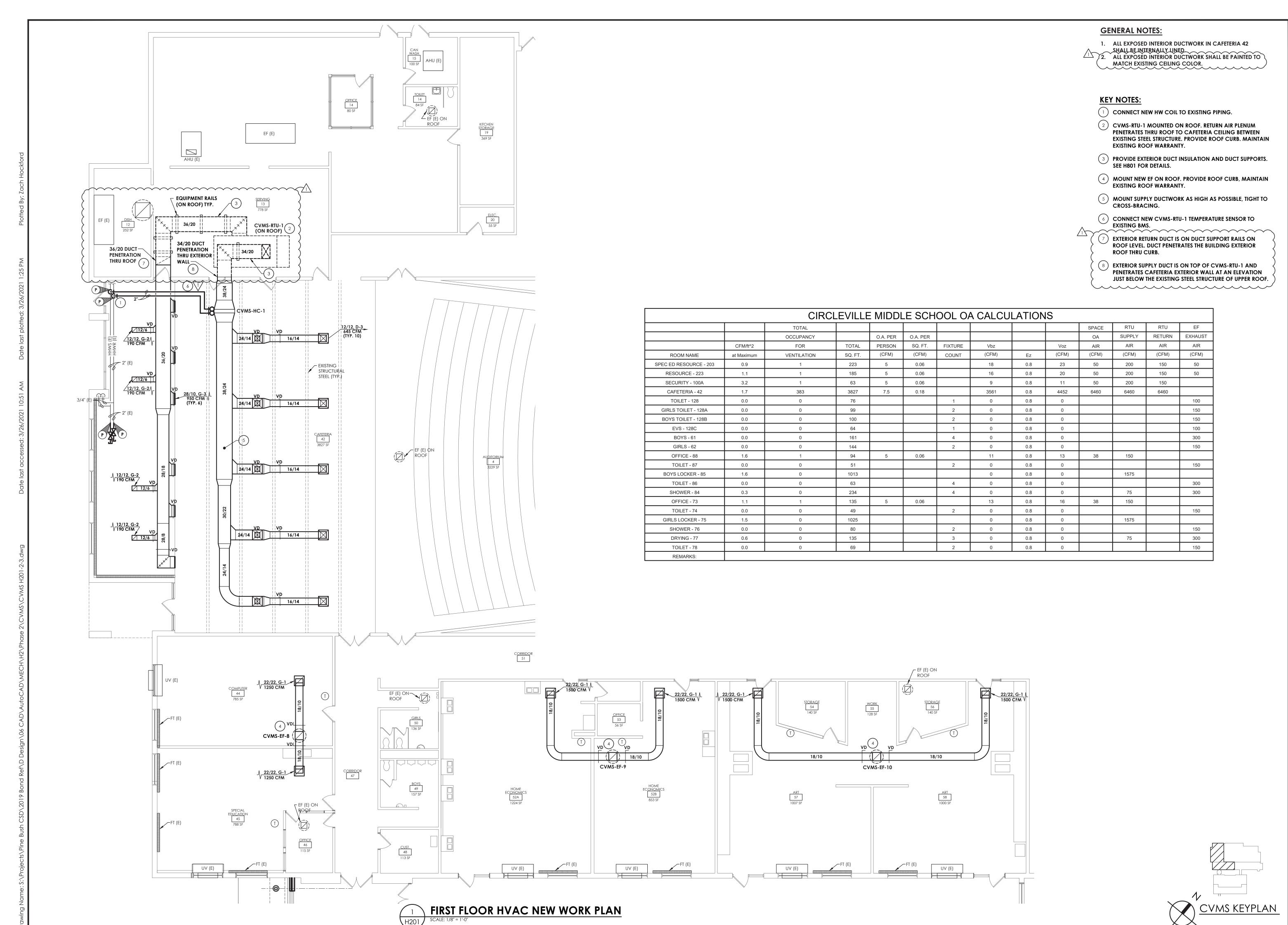
SECOND FLOOR

SECOND FLOOR ELECTRICAL KEY PLAN

PROJECT NUMBER 14533.05



CVMS KEYPLAN



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DATE BY DESCRIPTION
33/26/2021 ZBH JJM BID-ADDENDUM-02

DATE DRAWN CHECKEE
03/08/2021 ZBH JJM

SCALE 1/8" = 1'-0"

SHEET TITLE

FIRST FLOOR HVAC NEW WORK PLAN

14533.05

CVMS
H201

DRAWING NUMBER

KEY NOTES:

- (1) PROVIDE NEW PANELBOARD AT LOCATION SHOWN. MODIFY EXISTING OPENING TO ACCOMMODATE NEW PANEL AS REQUIRED. RECONNECT ALL EXISTING TAGGED BRANCH CIRCUITRY. REFER TO DRAWING PAK-E002 AND PANEL REPLACEMENT SCHEDULE ON PAK-E900 SCHEDULE FOR FURTHER INFORMATION.
- (2) PROVIDE NEW TRANSFORMER AT LOCATION SHOWN. REFER TO DRAWING PAK-E002 FOR FURTHER INFORMATION.
- (3) PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY LINES OF RTU'S. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM PANEL.
- (4) PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUT DOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.
- (5) TO REMOTE TEST SWITCH LOCATED IN STORAGE 125.
- (6) INSTALL FLUSH MOUNTED TEST SWITCHES IN CEILING. SWITCHES ARE ASSOCIATED WITH DUCT SMOKE DETECTORS IN THE SUPPLY AND RETURN MAIN LINE TRUNK OF ROOFTOP UNIT INDICATED. COORDINATE LOCATION AND MOUNTING WITH OWNER PRIOR TO INSTALLATION.
- (7) RECEPTACLE TO BE WIRED TO PANEL 4 IN WORK ROOM 134 WITH (2) #12, (1) #12GND IN 3/4" CONDUIT. UTILIZE EXISTING SPARE 20-AMP CIRCUIT BREAKER.
- 8 ALTERNATE PAK-EC-01:
- INSTALL FLUSH MOUNTED TEST SWITCHES IN CEILING. SWITCHES ARE ASSOCIATED WITH DUCT SMOKE DETECTORS IN THE SUPPLY AND RETURN MAIN LINE TRUNK OF ROOFTOP UNIT INDICATED. COORDINATE LOCATION AND MOUNTING WITH OWNER PRIOR TO INSTALLATION.

GENERAL NOTES:

- A. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.
- B. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014
- C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.
- D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.
- E. ALL NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT FAN UPON ACTIVATION OF FIRE ALARM SYSTEM.
- F. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0"
- G. THE CONTRACTOR SHALL PROVIDE NEW NOTIFICATION APPLIANCE (NAC) PANEL ON EACH FLOOR TO ACCOMMODATE NEW NOTIFICATION DEVICES. PANELS SHALL BE LOCATED IN ACCESSIBLE CLOSET SPACE ON ASSOCIATED FLOOR, COORDINATE EXACT PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION. SERVE NEW NAC PANEL FROM NEAREST AVAILABLE 120VAC PANELBOARD SOURCE WITH (2) #12, #12 G IN 1/2" EMT CONDUIT. CIRCUIT LENGTHS EXCEEDING 100' SHALL BE WITH #10 AWG. PROVIDE 20/1 CIRCUIT BREAKER IN AVAILABLE PANEL SPACE AND ASSOCIATED "BREAKER ON" LOCK. NEW CIRCUIT BREAKER SHALL BE U.L. LISTED AND MATCH EXISTING PANEL INTERRUPTING RATING.
- H. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.

- I. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.
- J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON A FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.
- K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".
- L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.
- M. REFER TO MANUFACTURER INSTALLATION GUIDELINES FOR DUCT SMOKE DETECTOR INSTALLATION.
- N. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.
- O. AT EACH $\langle x \rangle$ SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING PAK-E900.
- P. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO, 914-241-0057.

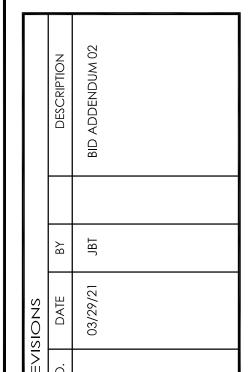


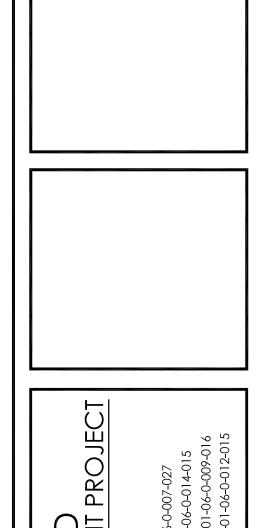
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NEWBURGH, NEW YORK 12550

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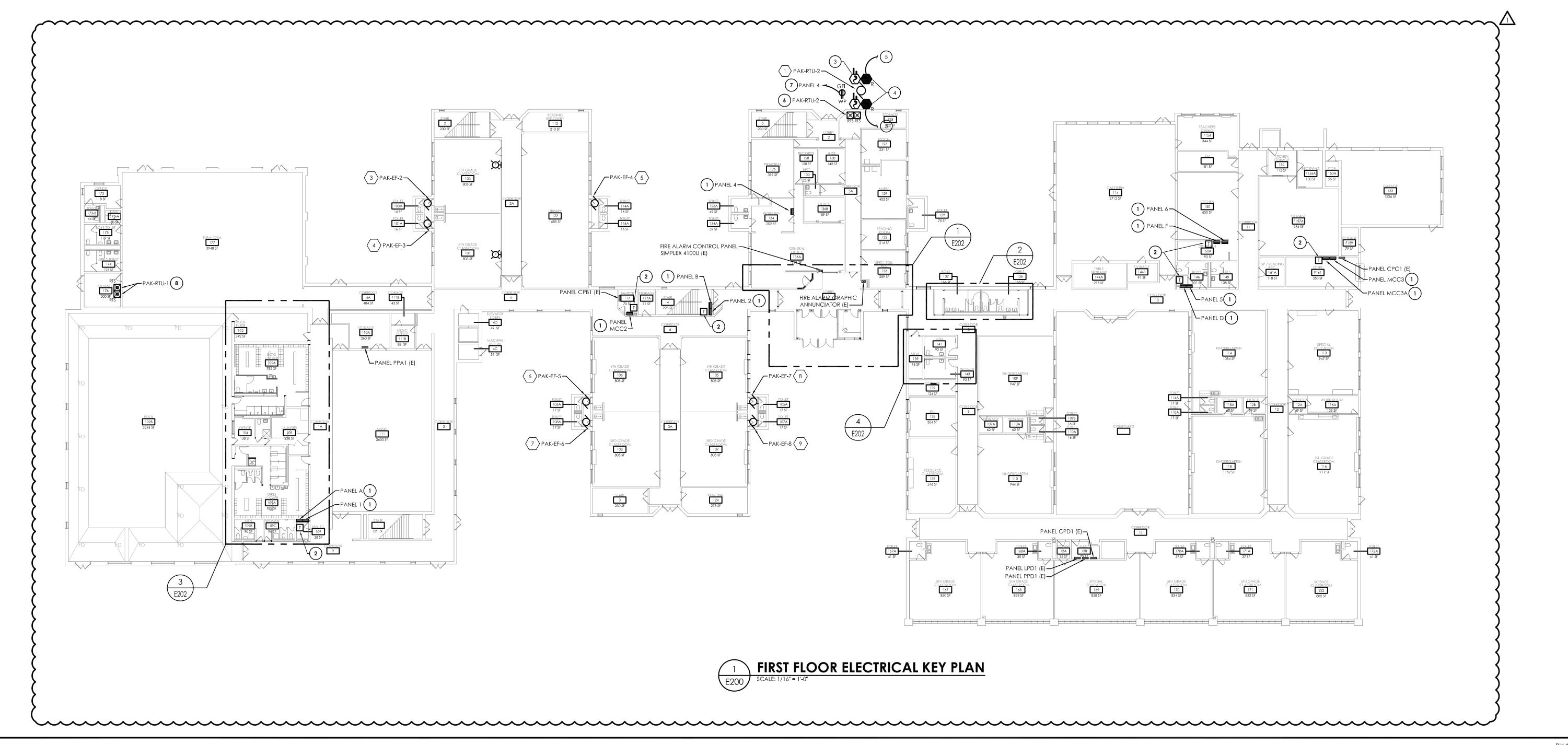


MAYSCALE 1/8'' = 1'-0''

FIRST FLOOR **ELECTRICAL KEY**

PROJECT NUMBER 14533.05

> PAK DRAWING NUMBER



2 PROVIDE NEW TRANSFORMER AT LOCATION SHOWN. REFER TO DRAWING PAK-E002 FOR FURTHER INFORMATION.

KEY NOTES:

ALTERNATE PAK-EC-01:

PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY LINES OF RTU'S. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM PANEL.

ALTERNATE PAK-EC-01:

PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS.
INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUT
DOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.

5 <u>ALTERNATE PAK-EC-01:</u>
TO REMOTE TEST SWITCH LOCATED IN STORAGE 176, FLOOR BELOW.

ALTERNATE PAK-EC-01:

RECEPTACLE TO BE WIRED TO PANEL MCC1 IN MECHANICAL ROOM
002 WITH (2) #12, (1) #12GND IN 3/4" CONDUIT. UTILIZE EXISTING
SPARE 20-AMP CIRCUIT BREAKER.

GENERAL NOTES:

A. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.

B. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014 VERSION.

C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.

D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.

E. ALL NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT FAN UPON ACTIVATION OF FIRE ALARM SYSTEM.

F. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0" SPACING.

G. THE CONTRACTOR SHALL PROVIDE NEW NOTIFICATION APPLIANCE (NAC) PANEL ON EACH FLOOR TO ACCOMMODATE NEW NOTIFICATION DEVICES. PANELS SHALL BE LOCATED IN ACCESSIBLE CLOSET SPACE ON ASSOCIATED FLOOR, COORDINATE EXACT PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION. SERVE NEW NAC PANEL FROM NEAREST AVAILABLE 120VAC PANELBOARD SOURCE WITH (2) #12, #12 G IN 1/2" EMT CONDUIT. CIRCUIT LENGTHS EXCEEDING 100' SHALL BE WITH #10 AWG. PROVIDE 20/1 CIRCUIT BREAKER IN AVAILABLE PANEL SPACE AND ASSOCIATED "BREAKER ON" LOCK. NEW CIRCUIT BREAKER SHALL BE U.L. LISTED AND MATCH EXISTING PANEL INTERRUPTING RATING.

H. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.

I. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.

J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE
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DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. REFER TO MANUFACTURER INSTALLATION GUIDELINES FOR DUCT SMOKE DETECTOR INSTALLATION.

N. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.

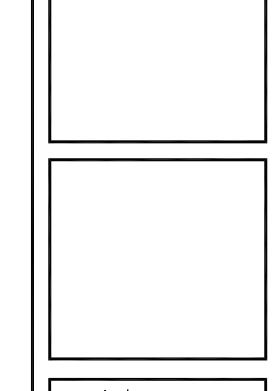
O. AT EACH $\left\langle \mathbf{x} \right\rangle$ SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING PAK-E900.

P. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO, 914-241-0057.

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LE BUSH CSD
IMPROVEMENT PROJECT
PHASE 2
ISCHOOL - SED #: 44-04-01-06-0-014-015

DATE DRAWN CHECKE
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SCALE 1/8" = 1'-0"

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SHEET TITLE

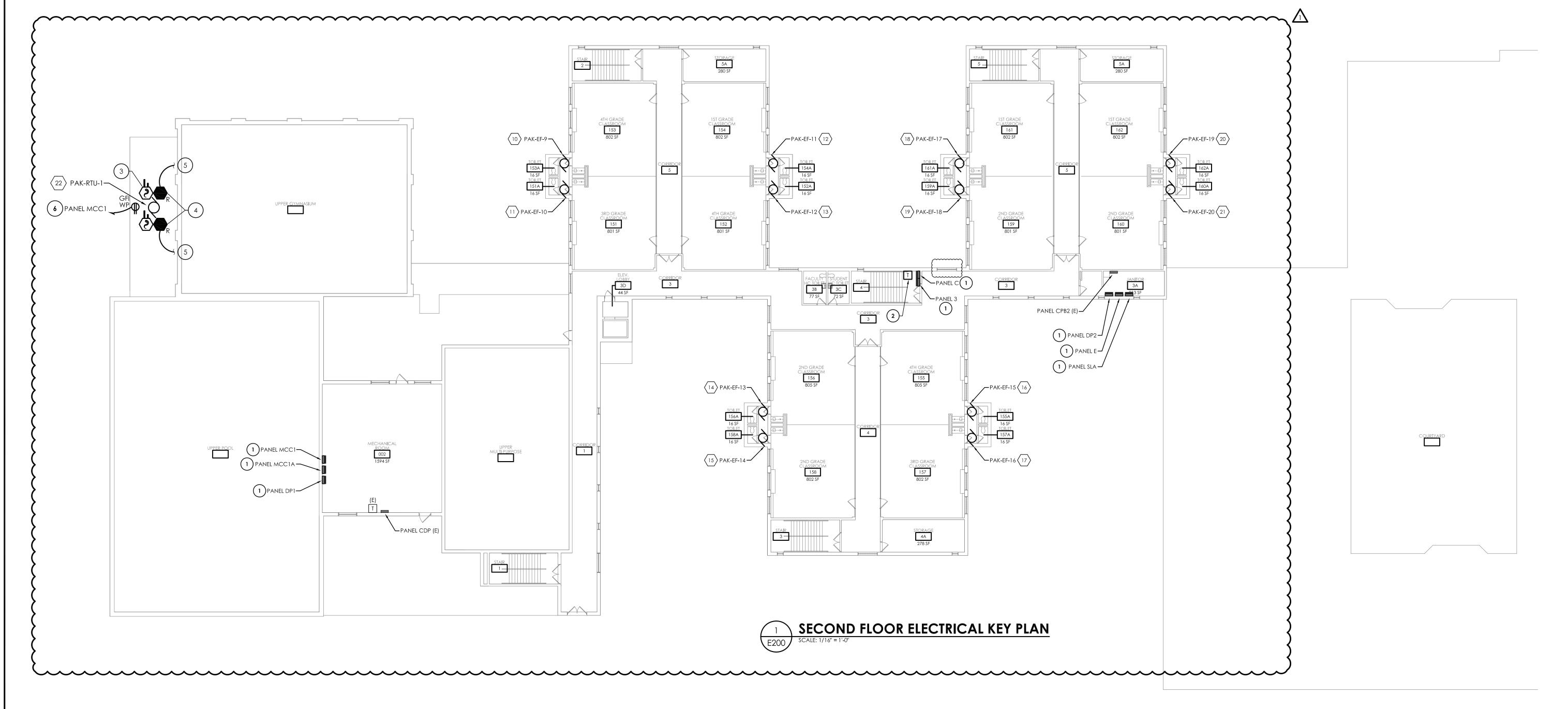
SECOND FLOOR

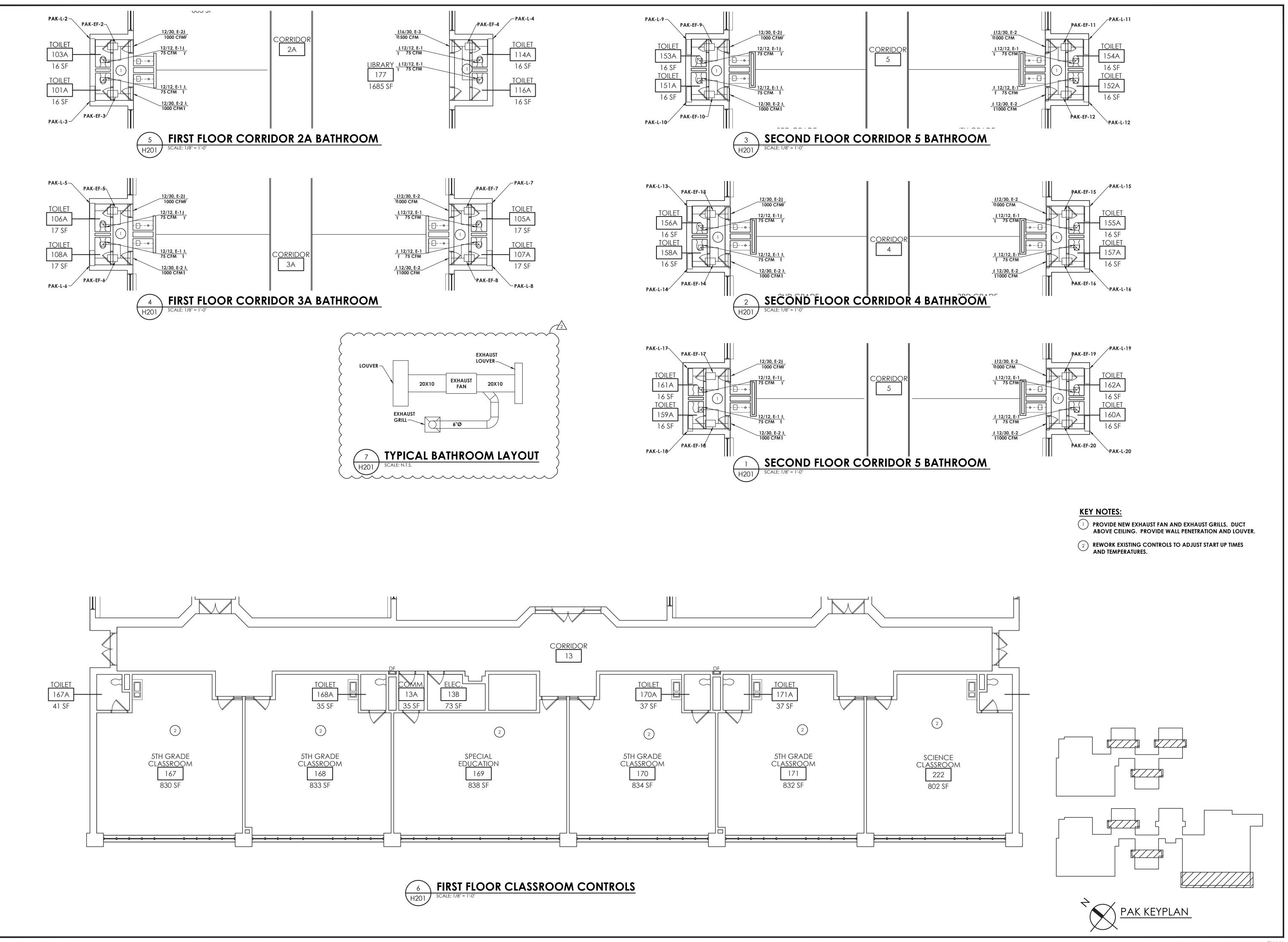
ELECTRICAL KEY

PLAN

PROJECT NUMBER

PAK E201





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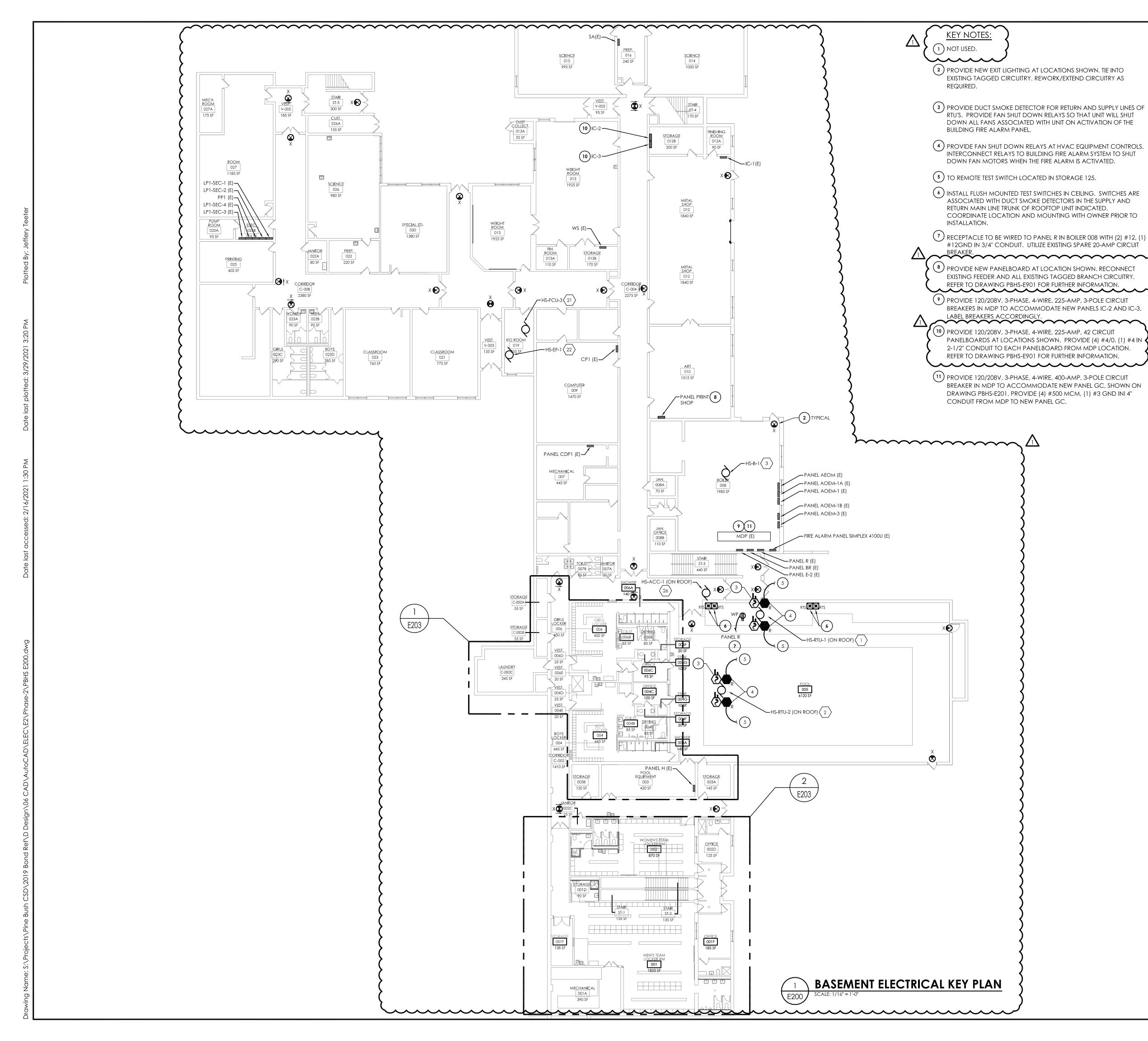
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PINE BUSH CSD 2019 CAPITAL IMPROVEMENT PROJECT

03/08/2021 NRH SCALE 1/4'' = 1'-0''SHEET TITLE FIRST FLOOR

HVAC NEW WORK PLAN

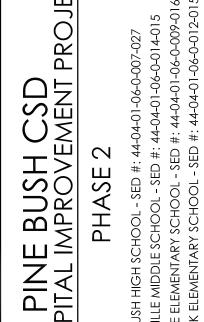
> PROJECT NUMBER 14533.05 PAK H201 DRAWING NUMBER



- A. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.
 - B. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014 VERSION
 - C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.
 - D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.
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 - F. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0" SPACING.
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 - H. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.
 - I. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.
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 - O. AT EACH X SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT
 - WIRING SCHEDULE ON DRAWING PBHS-E900.

P. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO,

914-241-0057.



DATE DRAWN CHECKE 03/08/2021 MAY JBT SCALE 1/16" = 1'-0"

SCALE 1/16" = 1'-0"

SHEET TITLE

BASEMENT

ELECTRICAL KEY PLAN

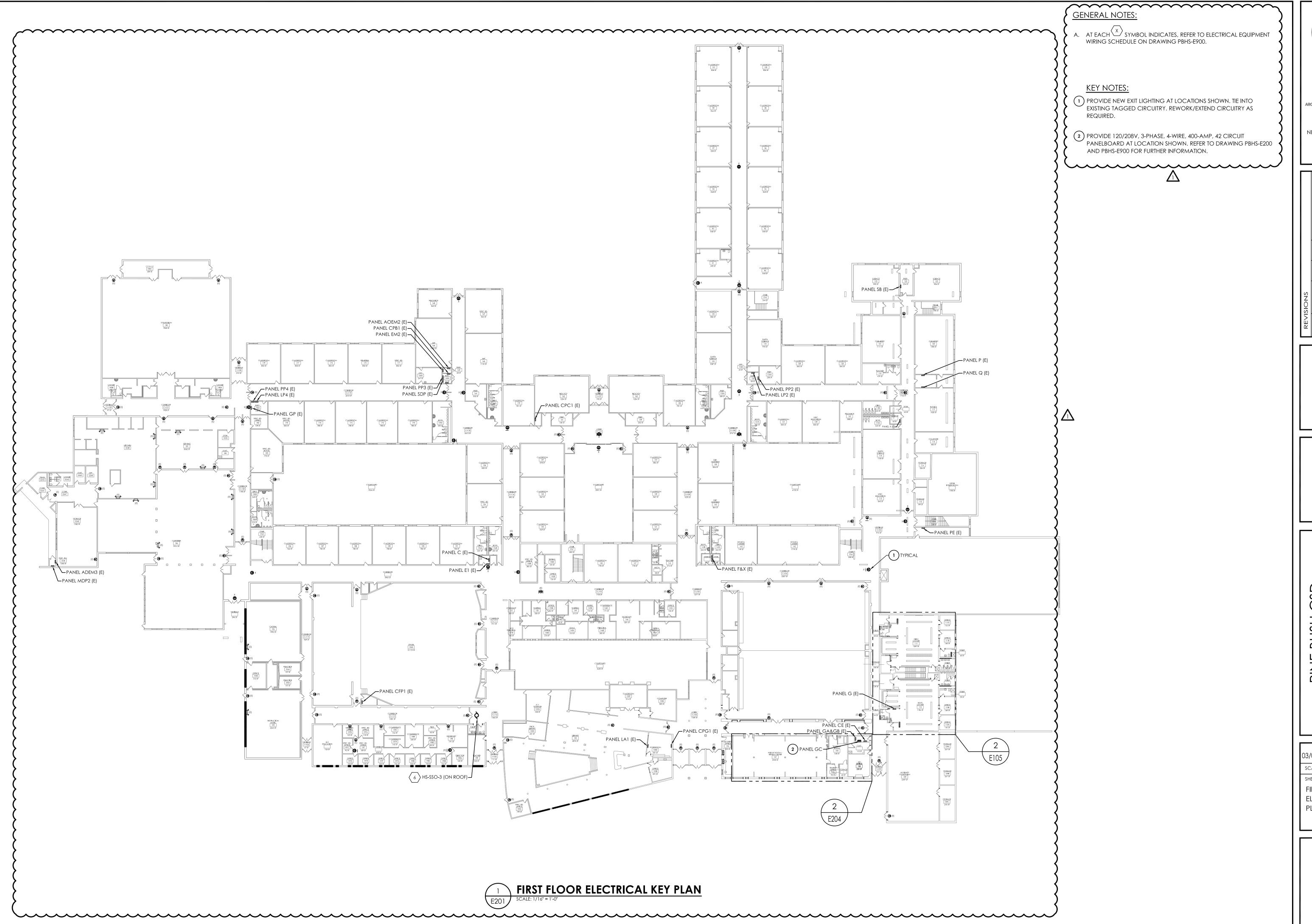
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PBHS E200

Bid Addendum 2 3/29/2021 Page 64 of 71



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Bid Addendum 2 3/29/2021 Page 65 of 71

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NO. DATE BY DESCRIPTION
1 03/29/21 JBT BID ADDENDUM 02

PINE BUSH CSD
PITAL IMPROVEMENT PROJE
PHASE 2

SUSH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015

DATE DRAWN CHECKE
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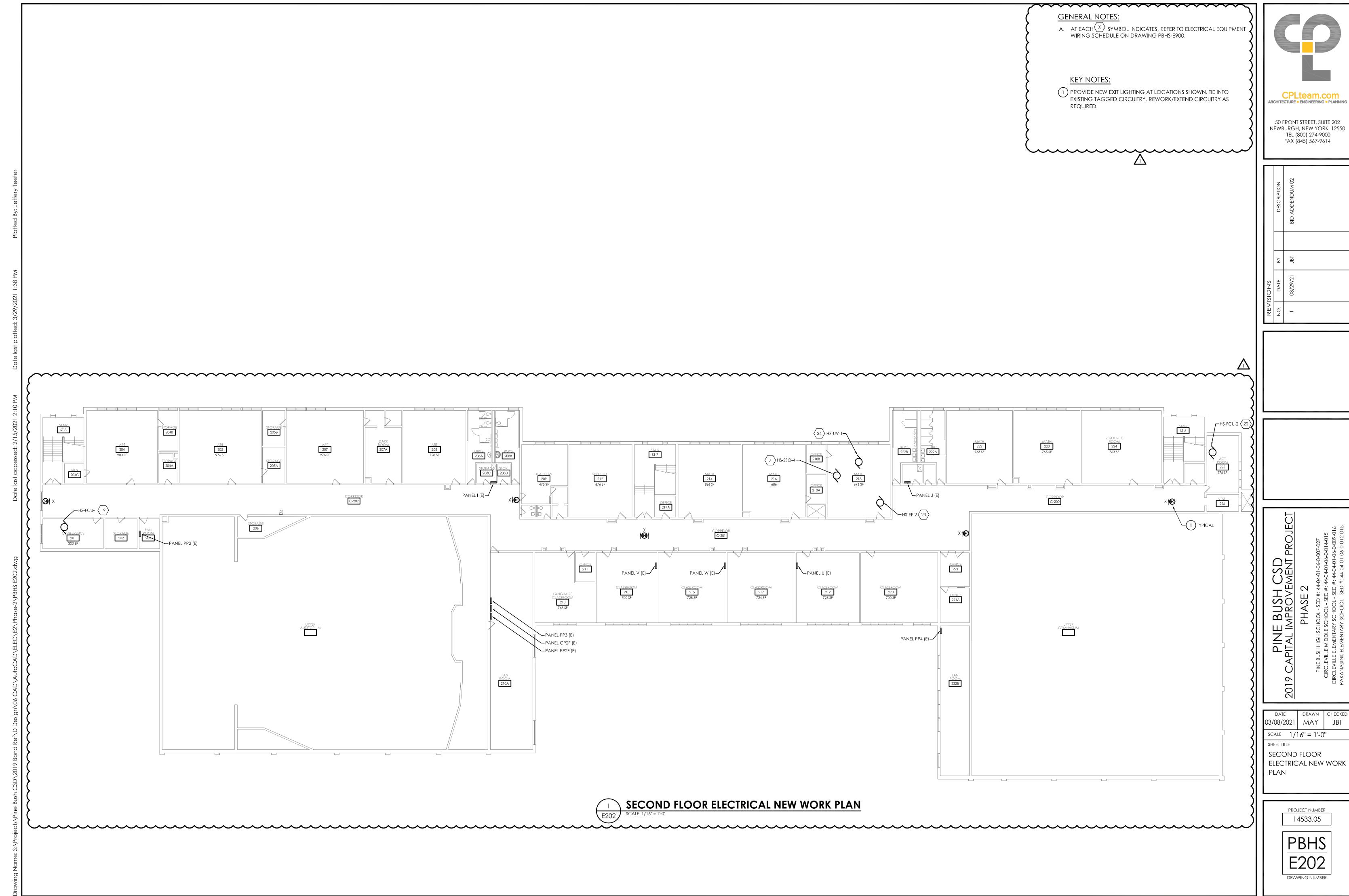
SCALE 1/16" = 1'-0"

SHEET TITLE

FIRST FLOOR ELECTRICAL KEY PLAN

PROJECT NUMBER 14533.05

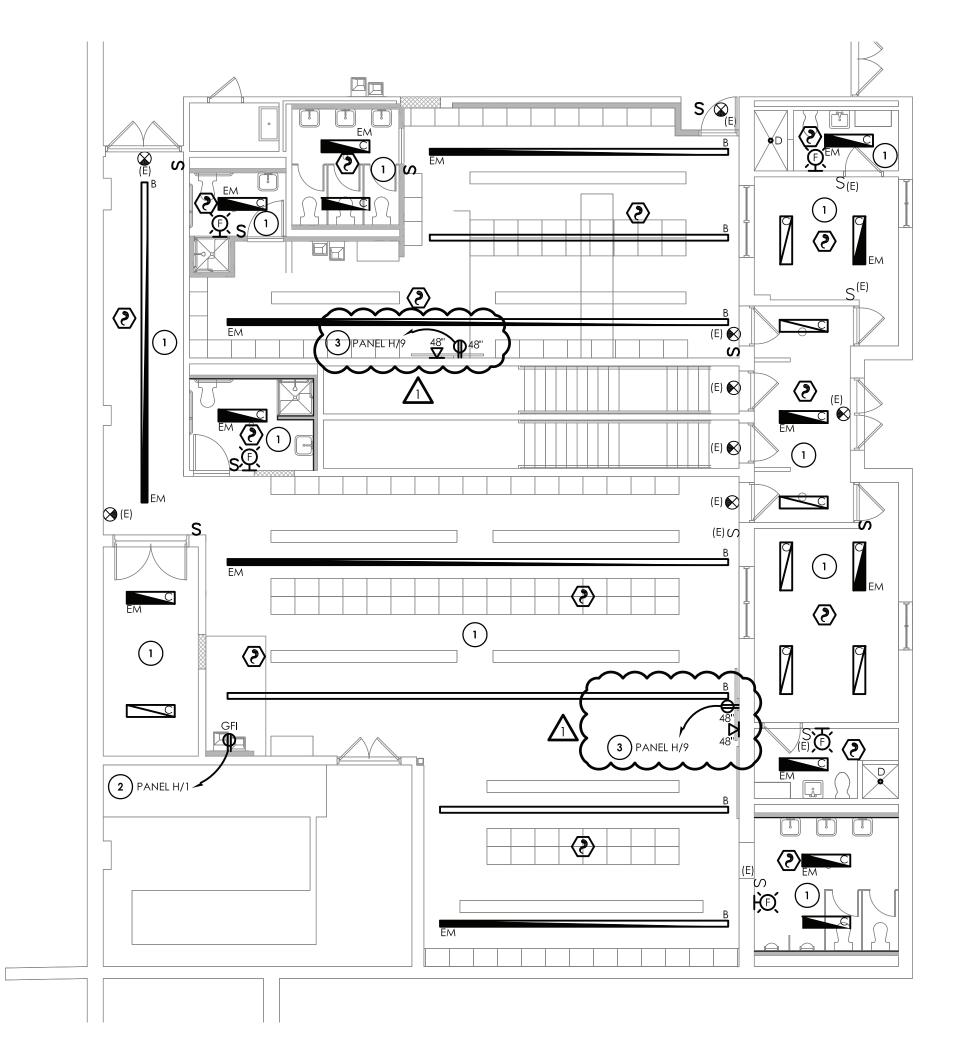
PBHS E201



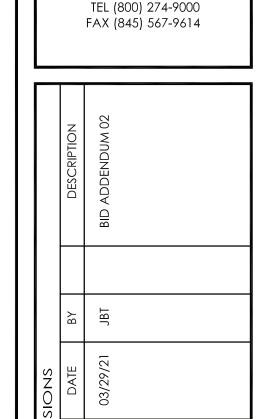
3 PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL H TO NEW RECEPTACLE INDICATED. UTILIZE EXISTING SPARE BREAKERS INDICATED.

- **GENERAL NOTES:**
- A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO NEW LIGHT FIXTURES.
 REFER TO LUMINAIRE SCHEDULE ON SHEET PBHS-E900 FOR FIXTURE
 DESCRIPTIONS, NOTES, AND SPECIFICATIONS.
- B. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.
- C. ALL FIXTURES INDICATED WITH "EM" DESIGNATION SHALL HAVE EMERGENCY BATTERY BACKUP.
- D. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014 VERSION.
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- M. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".
- N. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.
- O. REFER TO MANUFACTURER INSTALLATION GUIDELINES FOR DUCT SMOKE DETECTOR INSTALLATION.
- P. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.
- Q. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO, 914-241-0057.





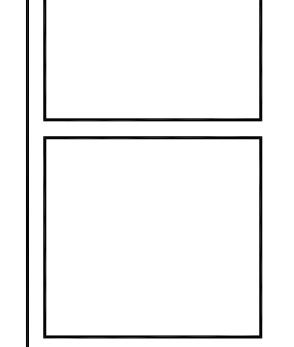


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ARCHITECTURE - ENGINEERING - PLANNING

50 FRONT STREET, SUITE 202

NEWBURGH, NEW YORK 12550



IMPROVEMENT PROJECT
PHASE 2
SCHOOL - SED #: 44-04-01-06-0-014-015

DATE DRAWN CHECK
03/08/2021 MAY JBT

SHEET TITLE

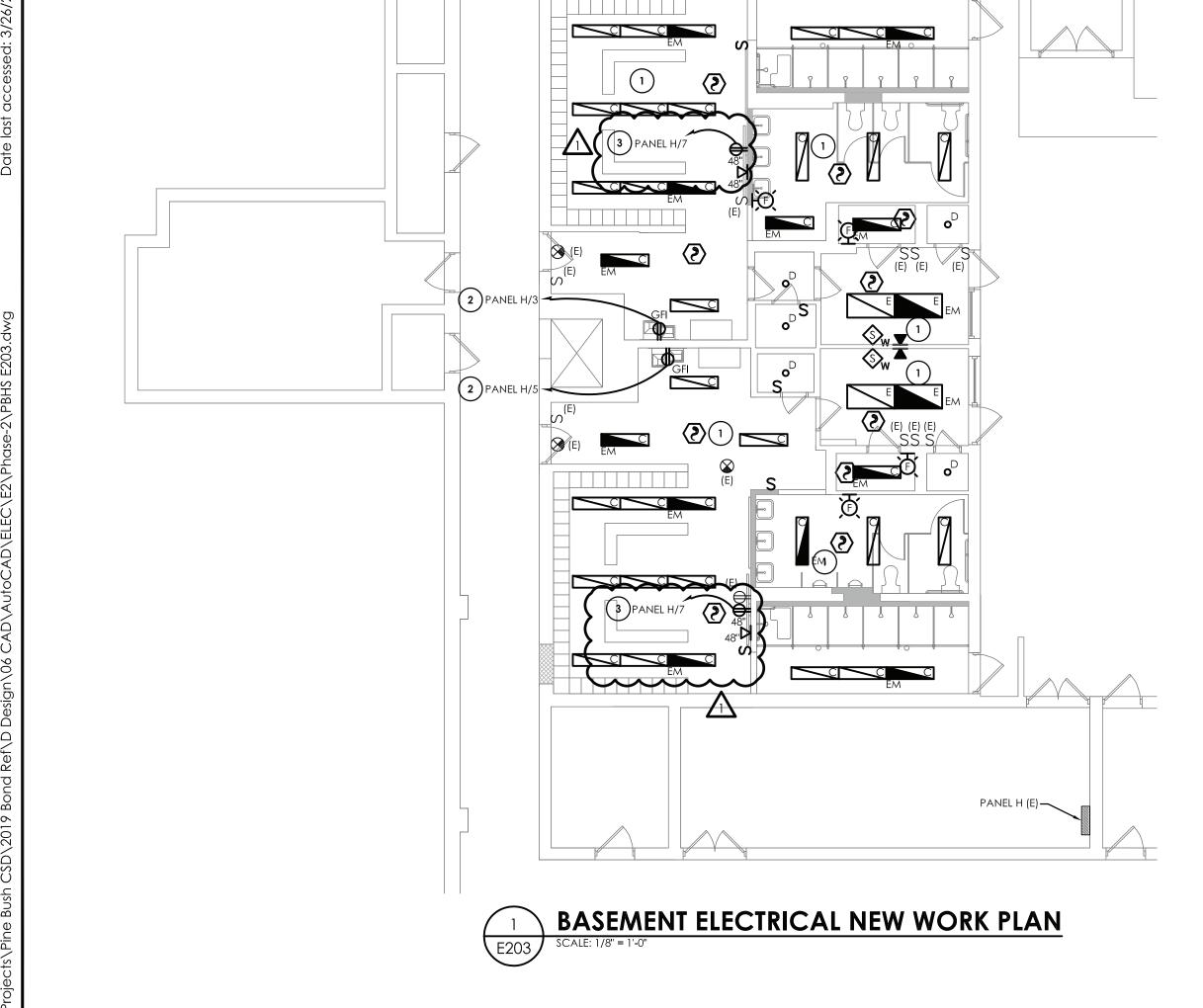
BASEMENT

ELECTRICAL NEW WORK

SCALE 1/16'' = 1'-0''

PROJECT NUMBER 14533.05

> PBHS E203



KEY NOTES:

- ig($_1$ ig) Connect New Light fixtures to existing tagged circuitry. REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.
- (2) ALL NEW RECEPTACLES TO BE WIRED TO EXISTING CIRCUITRY TAG FOR RE-USE, UNLESS NOTED OTHERWISE. REWORK/EXTEND EXISTING CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.
- (3) EXISTING WIRELESS TRANSMITTERS TO BE INSTALLED AT LOCATIONS SHOWN. CONNECT TO EXISTING TAGGED WIRING. REWORK/EXTEND WIRING AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.
- (4) EXISTING CEILING MOUNTED DEVICES TO BE REINSTALLED IN LOCATIONS SHOWN. CONNECT TO EXISTING TAGGED WIRING.
- (5) EACH RECEPTACLE TO BE ON ITS OWN INDIVIDUAL CIRCUIT. CONNECT TO EXISTING WIRING WITHIN SPACE.
- (6) PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL GC TO NEW DRINKING FOUNTAINS. WIRE TO CIRCUIT BREAKERS INDICATED IN PANEL.

7) PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL GC TO NEW RECEPTACLE INDICATED. UTILIZE EXISTING SPARE BREAKERS

GENERAL NOTES:

- A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO NEW LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON SHEET PBHS-E900 FOR FIXTURE DESCRIPTIONS, NOTES, AND SPECIFICATIONS.
- B. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE OPERATIONAL LIGHTING SYSTEM TO MEET INTENT OF LIGHTING SEQUENCE OF OPERATION AS SHOWN.
- C. ALL FIXTURES INDICATED WITH "EM" DESIGNATION SHALL HAVE EMERGENCY BATTERY BACKUP.
- D. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. AREAS WITHOUT NEW FIRE ALARM DEVICES ARE NOT PART OF PROJECT SCOPE AND HAVE BEEN FIELD VERIFIED AND DETERMINED TO MEET NEW YORK STATE SED REQUIREMENTS MANUAL PLANNING STANDARDS 2014
- DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.
- F. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.
- G. ALL NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT FAN UPON ACTIVATION OF FIRE ALARM SYSTEM.
- H. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0" SPACING.
- I. THE CONTRACTOR SHALL PROVIDE NEW NOTIFICATION APPLIANCE (NAC) PANEL ON EACH FLOOR TO ACCOMMODATE NEW NOTIFICATION DEVICES. PANELS SHALL BE LOCATED IN ACCESSIBLE CLOSET SPACE ON ASSOCIATED FLOOR, COORDINATE EXACT PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION. SERVE NEW NAC PANEL FROM NEAREST AVAILABLE 120VAC PANELBOARD SOURCE WITH (2) #12, #12 G IN 1/2" EMT CONDUIT. CIRCUIT LENGTHS EXCEEDING 100' SHALL BE WITH #10 AWG. PROVIDE 20/1 CIRCUIT BREAKER IN AVAILABLE PANEL SPACE AND ASSOCIATED "BREAKER ON" LOCK. NEW CIRCUIT BREAKER SHALL BE U.L. LISTED AND MATCH EXISTING PANEL INTERRUPTING RATING.
- J. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.
- K. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.
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- P. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.
- Q. AT EACH $\left\langle x \right\rangle$ SYMBOL INDICATES, REFER TO ELECTRICAL EQUIPMENT WIRING SCHEDULE ON DRAWING PBHS-E900.
- R. EXISTING FIRE ALARM SYSTEM VENDOR OPEN SYSTEMS METRO, 914-241-0057.

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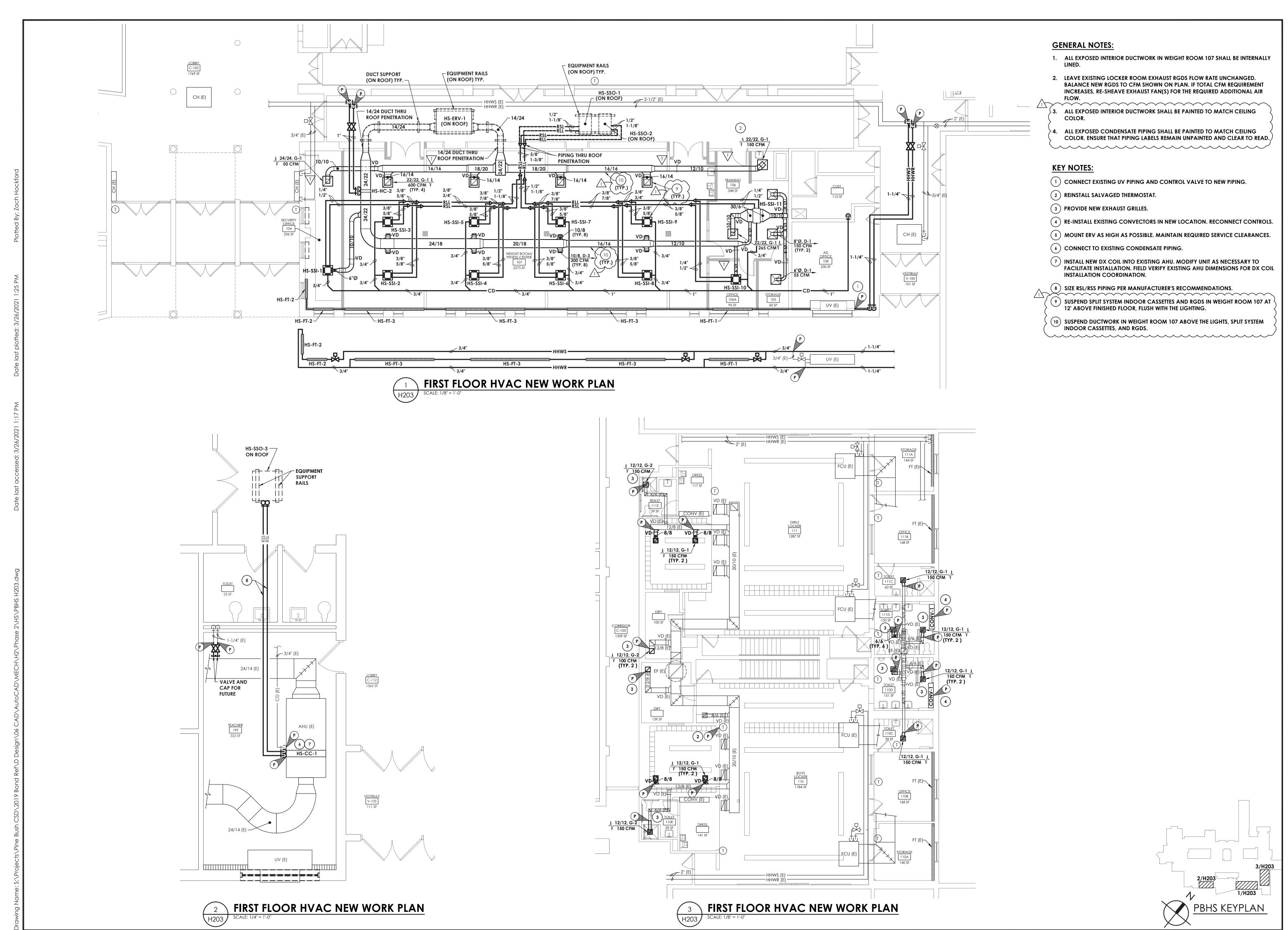
	DESCRIPTION	BID ADDENDUM 02	
	ВУ	JBT	
REVISIONS	DATE	03/29/21	
REVI	NO.	1	

|03/08/2021| MAY SCALE 1/16'' = 1'-0''

SHEET TITLE FIRST FLOOR ELECTRICAL NEW WORK PLAN

> PROJECT NUMBER 14533.05

> > **PBHS** DRAWING NUMBER



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TEL (800) 274-9000

FAX (845) 567-9614

DESCRIPTION
JJM BID-ADDENDUM-02

NO. DATE BY

VE BUSH CSD

L IMPROVEMENT PROJECT

PHASE 2

SH SCHOOL - SED #: 44-04-01-06-0-007-027

DATE DRAWN CHECKE
03/08/2021 ZBH JJM

SCALE AS NOTED

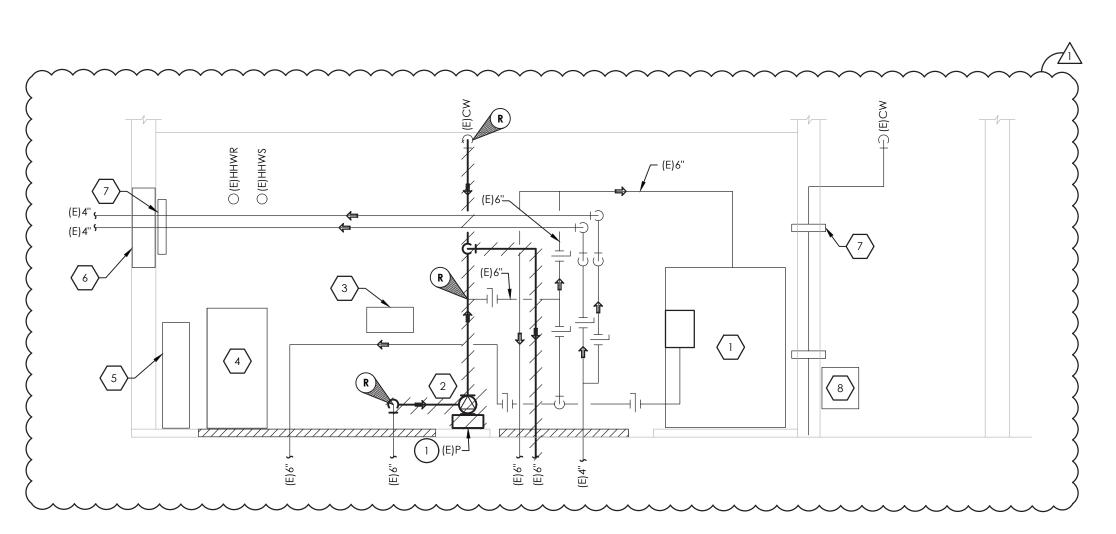
SHEET TITLE

FIRST FLOOR HVAC NEW WORK PLAN

PROJECT NUMBER
14533.05

PBHS
H203

DRAWING NUMBER



P100 SCALE: NOT TO SCALE

EXISTING POOL EQUIPMENT:

- (E) NEPTUNE MODEL 66SRFFL-SLA-6P80-R FILTER AREA (SQ. FT.) 23.8 MAX FLOW RATE (GPM) 357 MAX WORKING PRESSURE 50 PSI
- (E) 10 HP, 1760 RPM
- $\sqrt{3}$ (E) CHEMTROL CONTROL SYSTEM
- $\left\langle 4\right\rangle$ (E) ACE ROTO-MOLD 160 GAL. STORAGE TANK
- $\left\langle 5\right\rangle$ (E) LIQUID CARBON DIOXIDE
- 6 (E) EXHAUST FAN
- (E) ELECTRIC PANEL
- $\left\langle 8\right\rangle$ (E) SAFETY SHOWER & EYEWASH
- 9 (E) MOP SINK

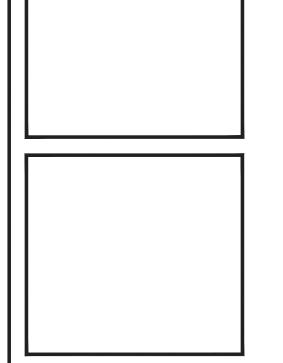
KEY NOTES:

REMOVE EXISTING POOL PUMP AND PAD.
PREPARE PIPING FOR NEW PUMP SET
CONNECTION. COORDINATE POOL SHUTDOWN
WITH OWNER.



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	DESCRIPTION	BID-ADDENDUM-02
		MLL
	ВУ	ХВН
SNC	DATE	03/29/2021
REVISIONS	ON.	_



PINE BUSH CSD

CAPITAL IMPROVEMENT PROJECT

PHASE 2

PINE BUSH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015

SLEVILLE ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-009-016

ANASINK ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-012-015

DATE DRAWN CHECKED
03/08/2021 ZBH JJM

SCALE 1/4" = 1'-0"

SHEET TITLE

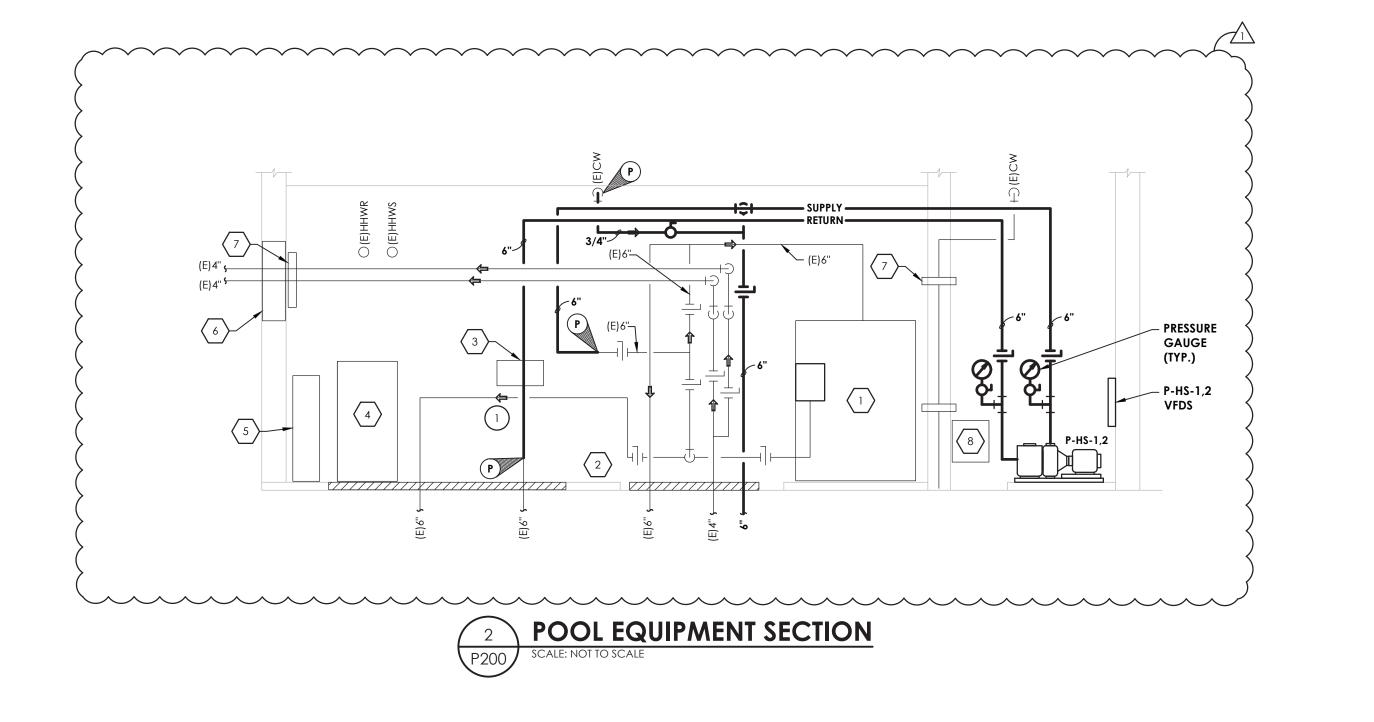
BASEMENT POOL AREA
PLUMBING DEMOLITION

PROJECT NUMBER
14533.05

PBHS
P100

DRAWING NUMBER

				PUMP	SCHE	DULE			
MARK LOCATION	LOCATION	(ATION CED)/IOE	CD14	HD	ELECTRICAL DATA			TYPICAL UNIT MFG	DELA A DICC.
	SERVICE	GPM	(FT.)	HP	VOLTS	PH	& MODEL NO.	REMARKS:	
P-HS-1	POOL EQUIPMENT	POOL	370	75	10	208	3	MARLOW 4SPC10EC	ALL
P-HS-2	POOL EQUIPMENT	POOL	370	75	10	208	3	MARLOW 4SPC10EC	ALL
EMARKS:	1. EPOXY COATE).		_					1
	2. INTEGRAL STRA	INER.							
	3. FACTORY WIR	ED DISCONNEC	T.						



EXISTING POOL EQUIPMENT:

(E) NEPTUNE MODEL 66SRFFL-SLA-6P80-R
FILTER AREA (SQ. FT.) 23.8
MAX FLOW RATE (GPM) 357
MAX WORKING PRESSURE 50 PSI

2 CENTURY MODEL PL1AB07A01C MOTOR

CENTURY MODEL PL1AB07A01C MOTOR
(E) 10 HP, 1760 RPM. MARLOW 4SPC10ED PUMP.

(E) CHEMTROL CONTROL SYSTEM

 $\left\langle {}^{4}\right\rangle$ (E) ACE ROTO-MOLD 160 GAL. STORAGE TANK

 $\left\langle 5\right\rangle$ (E) LIQUID CARBON DIOXIDE

6 (E) EXHAUST FAN

(E) ELECTRIC PANEL

(B) (E) SAFETY SHOWER & EYEWASH

 $\langle 9 \rangle$ (E) MOP SINK

KEY NOTES:

1 INSTALL NEW INLINE PUMPS. CONNECT TO EXISTING SUPPLY AND RETURN PIPES.

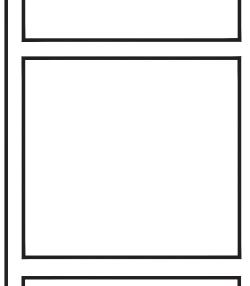
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NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

NO. DATE BY DESCRIPTION

1 03/29/2021 ZBH JJM BID-ADDENDUM-02



PINE BUSH CSD

PITAL IMPROVEMENT PROJECT

PHASE 2

USH HIGH SCHOOL - SED #: 44-04-01-06-0-014-015

E ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-010-015

K ELEMENTARY SCHOOL - SED #: 44-04-01-06-0-012-015

DATE DRAWN CHECKED 03/08/2021 ZBH JJM

SCALE 1/4" = 1'-0"

SHEET TITLE

SHEET TITLE

BASEMENT POOL AREA

PLUMBING NEW WORK

PLAN

PROJECT NUMBER
14533.05

PBHS
P200

DRAWING NUMBER

