THE SCHOOL DISTRICT OF PHILADELPHIA
SCHOOL REFORM COMMISSION
Office of Capital Programs
440 North Broad Street, Third Floor - Suite 371
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Addendum No. 1

Subject: JAMES J. SULLIVAN ELEMENTARY SCHOOL
CLASSROOM MODERNIZATION
SDP CONTRACT NOS. B-019C, B-020C OF 2018/19

Location: JAMES J. SULLIVAN ELEMENTARY SCHOOL
5300 Dittman Street
Philadelphia, PA 19124

This Addendum, ***dated 24h of April 2018,*** shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

1. Revised Drawing Sheets Issued (2 Total with Revision date of 04/24/19)

E - 001.0	COVER SHEET
E - 101.0	FIRST FLOOR POWER & SYSTEMS PLAN

2. Questions and Clarifications

.1 **Question:** The Hardware Specs (087100) has multiple jobs represented. James J Sullivan is not one of them. What Hardware Sets are we to use on the Sullivan job?

Response: Hardware sets shall be as listed on drawing A900 DOOR KEY PLAN – BASEMENT, AND HARDWARE SETS. In all other respects related to door hardware the 087100 Specification shall apply.

END OF ADDENDUM NO. 1

ELECTRICAL SYMBOLS

⊖	SINGLE RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
	GROUND FAULT CIRCUIT INTERRUPTER TYPE SINGLE RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
	DUPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
	GROUND FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
	QUADRAPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
	GROUND FAULT CIRCUIT INTERRUPTER TYPE QUADRAPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W
±	INDICATES DEVICE MOUNTING HEIGHT
S	LIGHT SWITCH
S_3	3-WAY LIGHT SWITCH
DS	SWITCHBOX-MOUNTED DIMMER SWITCH
S_{DOS}	SWITCHBOX-MOUNTED DIMMER OCCUPANCY SENSOR
S_{OS}	SWITCHBOX-MOUNTED OCCUPANCY SENSOR
OS	CEILING MOUNTED OCCUPANCY SENSOR
S_T	KEY-OPERATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
S_M	MOTOR RATED SWITCH, COORDINATE SWITCH RATING WITH EQUIPMENT
J	JUNCTION BOX
PP	POWER PACK FOR OCCUPANCY SENSOR
A	INDICATES CONTROL GROUP (SWITCHING) / FIXTURE TYPE, REFER TO SCHEDULE
A	INDICATES CONTROL GROUP (SWITCHING) / FIXTURE TYPE, REFER TO SCHEDULE
X1	SHADING DEPICTS EXIT FACE ORIENTATION / INDICATES SINGLE FACED EXIT SIGN
	SINGLE FACE, PENDANT MOUNTED LED EXIT LIGHT WITH EMERGENCY BATTERY PACK
	DISCONNECT SWITCH, 30A/3P UON
	FUSIBLE DISCONNECT SWITCH, 30A/3P UON WITH DUAL-ELEMENT TIME-DELAY FUSES AS NOTED
	ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED
	SURFACE MOUNTED PANELBOARD
	RECESSED (FLUSH) MOUNTED PANELBOARD
	12" DIA CLOCK, BATTERY POWERED, GPS WIRELESS SYNC, MTD. 96" AFF
S	SPEAKER, WALL-MOUNTED
S	SPEAKER, RECESS-MOUNTED IN LAY-IN CEILING TILE.
T	THERMOSTAT, WALL-MOUNTED
T	TELEPHONE OUTLET
N	DATA OUTLET, "N" INDICATES # OF DATA PORTS
WAP	WIRELESS ACCESS POINT
2	(1) TV & (2) DATA OUTLETS
	TV OUTLET (OLD TYPE)
	NEW BRANCH CIRCUIT WIRING IN NEW RACEWAY
	ARROW HEADS INDICATE HOMERUN CIRCUITRY NUMBER OF CIRCUITS AS INDICATED IN DRAWINGS.
WG	"WG" INDICATES DEVICE WITH WIRE GUARD
WP	"WP" INDICATES WEATHERPROOF DEVICE.
(E)	"(E)" INDICATES EXISTING TO REMAIN
(R)	"(R)" INDICATES EXISTING TO BE REMOVED
(RR)	"(RR)" INDICATES EXISTING TO BE REMOVED AND REPLACED
	EXISTING LIGHT FIXTURE TO BE DEMOLISHED
	EXISTING LIGHT FIXTURE TO BE DEMOLISHED
	EXISTING LIGHT FIXTURE TO BE DEMOLISHED
	EXISTING LIGHT FIXTURE TO BE DEMOLISHED
A/V	AUDIO/VISUAL OUTLET

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
ACT	ACOUSTIC TILE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITIES HAVING JURISDICTION
AT	AMPERES, TRIP
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXIST	EXISTING
FLA	FULL LOAD AMPERE
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
G	GROUND
GA	GAUGE
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRSC	GALVANIZED RIGID STEEL CONDUIT
Hz	HERTZ
IG	ISOLATED GROUND
IN	INCHES
IT	INFORMATIONAL/INSTRUCTIONAL TECHNOLOGY
KA	KILO AMPERES
KAIC	KILO AMPERES INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MIL
KVA	KILO VOLT AMPERES
KW	KILO WATTS
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MNT	MOUNTED
N	NEW WORK. THIS NOTATION WILL SELDOM APPEAR (IF AT ALL), SINCE ALL WORK IS NEW UNLESS OTHERWISE NOTED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE(S)
PH, ø	PHASE
PNL	PANEL
R	REMOVE
SCCR	SHORT CIRCUIT CURRENT RATING
SDP	SCHOOL DISTRICT OF PHILADELPHIA (OWNER)
SPEC	SPECIFICATION
TBD	TO BE DETERMINED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLTS
VIF	VERIFY IN FIELD
W	WATTS
WG	WIRE GUARD
WP	WEATHERPROOF
WAP	WIRELESS ACCESS POINT
XFMR	TRANSFORMER

GENERAL DEMOLITION NOTES

1. WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE AND EXTEND ALL EXISTING ELECTRICAL WORK THAT INTERFERES WITH OR IS NECESSARY DUE TO SCOPE OF RENOVATION AS SPECIFIED, SHOWN OR REQUIRED. CONTRACTOR TO RELOCATE ANY ELECTRICAL CONDUIT IN THE WAY OF NEW CONSTRUCTION.
2. WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMPLETE COORDINATED ELECTRICAL SYSTEM TO SATISFACTION OF OWNER AND ENGINEER.
3. ALL EXISTING WORK TO REMAIN ACTIVE, BUT DISTURBED OR DISCONNECTED DUE TO ALTERATIONS PER THIS RENOVATION SHALL BE REPLACED AND PUT IN OPERATING CONDITION AS REQUIRED TO MAINTAIN CONTINUITY UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ENGINEER.
4. ALL DISCONNECTED OR ABANDONED WIRE, CABLE AND SURFACE CONDUIT OR RACEWAYS SHALL BE REMOVED.
5. ALL EXISTING BUILDING MATERIALS DAMAGED DURING RENOVATIONS SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO CEILING TILES, GRID, FLOORING, PARTITIONS AND SIMILAR BUILDING ITEMS. ALL DAMAGE SHALL BE REPAIRED TO A QUALITY AND FINISH LEVEL OF ADJACENT AREAS AND SUBJECT TO THE APPROVAL OF OWNER AND ENGINEER.
6. PROVIDE PHYSICAL AND DUST PROTECTION OF OWNER'S EQUIPMENT, FURNITURE AND FLOORING DURING RENOVATION. EQUIPMENT PROTECTION SHALL BE INSTALLED AND REMOVED ON A DAILY BASIS AS DIRECTED BY OWNER.
7. ALL ELECTRICAL WORK DAMAGED DURING RENOVATION SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR . THIS SHALL INCLUDE, BUT NOT LIMITED TO: RACEWAYS, WIREWAYS, BACKBOXES, LIGHTING FIXTURES, LAMPS, WIRING DEVICES AND SIMILAR ELECTRICAL EQUIPMENT. ALL DAMAGE SHALL BE REPAIRED TO A QUALITY LEVEL SUBJECT TO APPLICABLE CODE AND APPROVAL OF OWNER AND ENGINEER.
8. PROVIDE A FINISH GRADE COVERPLATE ON ALL WALL AND FLOOR BOXES, FOR ALL DEVICES TO BE REMOVED.
9. EXISTING CONDUIT WIREWAYS AND BACKBOXES (IF AT CODE APPROVED HEIGHT) MAY BE REUSED, WHERE NOTED ON SINGLE LINE, TO EXTENT PRACTICAL. THE CONTRACTOR SHALL FIELD VERIFY CONDUIT AND BOX SUITABILITY. PROVIDE NEW AS REQUIRED BY ACTUAL FIELD CONDITIONS.
10. PROVIDE TOUCH-UP AND FINISH PAINTING AS REQUIRED IN AREAS AFFECTED BY REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW. FINISH AND QUALITY LEVEL SHALL MATCH ADJACENT AREAS AND BE SUBJECT TO APPROVAL OF OWNER AND ENGINEER.
11. PERFORM ALTERATIONS AND CONNECTION TO EXISTING FACILITIES WITH A MINIMUM OF INTERRUPTION. WHERE INTERRUPTION IS NECESSARY, PREPARE A TIME SCHEDULE FOR SAME, COORDINATE WITH AND OBTAIN WRITTEN CLEARANCE FROM PRINCIPAL AND OWNER (SDP). PROVIDE AND PLACE NOTICES IN AFFECTED AREAS AND ON FIXTURES OR EQUIPMENT WHICH WILL BE TEMPORARILY OUT OF USE. REMOVE NOTICES WHEN INTERRUPTION IS COMPLETE.
12. DISCONNECT AND REMOVE ALL EXISTING SWITCHES AND LIGHT FIXTURES. REMOVE EXISTING LIGHT FIXTURE CONTROL WIRING WITHIN THE ROOM. KEEP EXISTING LIGHTING CIRCUITS FOR REUSE FOR NEW LIGHTING FIXTURES WIRING.
13. DURING RENOVATION PROVIDE ALL TEMPORARY LIGHTING AND POWER AS REQUIRED. COORDINATE WITH ALL OTHER TRADES FOR TEMPORARY POWER REQUIREMENTS.
14. ALL DEMOLITION/REMOVAL SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER WITH GREAT EMPHASIS ON MINIMIZING COLLATERAL DAMAGE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSAL THEREOF, UNLESS SPECIFICALLY NOTED OTHERWISE.
16. IT IS INTENDED THAT ALL NON-OPERATIONAL SURFACE BOXES, CONDUIT AND CABLE BE REMOVED. ALL ASSOCIATED WIRING TO BE REMOVED. BOXES AND CONDUIT EMBEDDED IN CONCRETE OR WALLS MAY REMAIN, CONDUIT TO BE CUT AT WALL BOUNDARY, BOXES TO BE COVERED WITH A STAINLESS STEEL BLANK COVER.
17. ALL EXISTING TO REMAIN WIRING ASSOCIATED WITH EXISTING SPEAKERS, TELEPHONE, DATA AND RECEPTACLES SMALL REMAIN AND MAINTAIN IN WORKING CONDITION. ANY WIRING IF DAMAGED ANR/OR CUT DURING THE PERFORMANCE OF THIS CONTRACT SHALL BE REMOVED AND REPLACED IN ITS ENTIRETY FROM TERMINATION TO TERMINATION. NO SPLICING OF THE OLD WIRING SHALL BE PERMITTED. THE CONTRACTOR SHELL BE RESPONSIBLE TO TEST AND VERIFY FULL FUNCTIONALITY OF ALL EQUIPMENT IN THE ROOM.
18. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT IDENTIFIED TO BE REMOVED/DEMOLISHED UNDER HIS SCOPE OF WORK.
19. THE CONTRACTOR SHALL FIELD VERIFY AND TRACE ALL EXISTING CIRCUITS ASSOCIATED WITH LIGHTS AND RECEPTACLES PRIOR TO COMMENCEMENT OF WORK AND IDENTIFY ON AS BUILT DRAWINGS.
20. REPLACE EXISTING COVER PLATES OF ALL EXISTING RECEPTACLES AND DATA OUTLETS WITH NEW GRAY COLOR FINISH COVER PLATES.
21. THE CONTRACTOR SHALL INCLUDE IN BID COST TO REMOVE TWO JUNCTION BOXES, ONE ABANDONED BOX ASSOCIATED WITH OLD REMOVED EQUIPMENT AND 80 LINEAR FEET OF ABANDONED CONDUIT AND WIRING PER CLASSROOM. PATCH WALL TO MATCH ADJACENT WALL SURFACE.

GENERAL NEW WORK NOTES

1. ALL WORK SHALL COMPLY WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC) NFPA 70, NFPA 72, NFPA 101, 2009 IBC, 2009 IECC, ALL PHILADELPHIA BUILDING CODES AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ), CITY OF PHILADELPHIA DEPARTMENT OF LICENSING AND INSPECTIONS (L&I).
2. ALL ELECTRICAL SERVICE RELATED WORK SHALL COMPLY REQUIREMENTS OF PECO ENERGY COMPANY.
3. ALL ELECTRICAL INSTALLATION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER, IN ACCORDANCE WITH ESTABLISHED INDUSTRY STANDARDS AND PRACTICE FOR K THRU 12 EDUCATIONAL INSTITUTION GRADE CONSTRUCTION.
4. EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN (INSULATED) EQUIPMENT GROUNDING CONDUCTOR.
5. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE PERMITTED EXCEPT WHERE INDICATED FOR SERVICE TO SYSTEMS (MODULAR) FURNITURE. EACH 120V SINGLE PHASE BRANCH CIRCUIT SHALL INCLUDE DEDICATED NEUTRAL AND (INSULATED) EQUIPMENT GROUNDING CONDUCTORS.
6. TRUNKING OR GROUPING OF BRANCH CIRCUITS SHALL BE PERMITTED, PROVIDED THAT NEC RULES PERTAINING TO MAXIMUM ALLOWABLE PERCENT FILL OF RACEWAYS, AND AMPACITY ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY, ARE STRICTLY COMPLIED WITH. A MAXIMUM OF 9-120V BRANCH CIRCUITS (18 No. 10 AWG CURRENT-CARRYING CONDUCTORS) SHALL BE GROUPED. THE ASSOCIATED EQUIPMENT GROUND CONDUCTORS NECESSITATE 18#10 AND 1#10 G IN 1 1/2"C. THE CONTRACTOR SHALL EXERCISE GREAT CAUTION IN PROVIDING AN EQUAL NUMBER OF A, B, AND C PHASE CONDUCTORS WHEN GROUPING BRANCH CIRCUITS.
7. JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL BE SIZED (MINIMUM) IN ACCORDANCE WITH ARTICLE 314 OF THE 2008 NEC.
8. BRANCH CIRCUIT WIRING IS DEPICTED BY ASSIGNMENT OF CIRCUIT NUMBERS OR INTERCONNECTING WIRING AND HOMERUNS, OR HOMERUNS ONLY (FOR SINGULAR LOAD CIRCUITS). ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE INSTALLED IN RMC (GRS) AND EMT, 3/4" MINIMUM, AND SMR. BUILDING EXTERIOR WIRING SHALL BE INSTALLED IN RMC (GRS), 3/4" MINIMUM. FMC SHALL ONLY BE ALLOWED ON LIGHTING CONNECTIONS AND CONNECTIONS TO VIBRATING EQUIPMENT.
9. ALL CIRCUIT BREAKERS, DISCONNECT SWITCHES, CONTACTORS, STARTERS, ETC. ARE THREE POLE UNLESS OTHERWISE NOTED.
10. ALL 600V OR LESS OVERCURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPACITIES OR RATINGS (AIC OR AIR), IN AMPERES ROOT-MEAN-SQUARE SYMMETRICAL. DISTRIBUTION AND CONTROL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, MOTOR CONTROLLERS, MOTOR CONTROL CENTERS, ETC.) SHALL HAVE SHORT CIRCUIT CURRENT RATINGS (SCCR) IN AMPERES ROOT-MEAN- SQUARE SYMMETRICAL. THE INTERRUPTING RATINGS OF MAIN AND BRANCH DEVICES, AND BUS WITHSTAND CAPABILITY (BRACING), SHALL EACH MEET OR EXCEED THE INDICATED SCCR (FULLY RATED EQUIPMENT).
11. ALL BUILDING WIRE SHALL BE COPPER CONDUCTORS, TYPE THWN-2/THHN (DUAL LISTED) 90 DEGREE CELSIUS RATED INSULATION, No. 12 AWG MINIMUM. UTILIZE No. 10 AWG FOR ANY 20A, 120V BRANCH CIRCUIT THAT EXCEEDS 50 FT. FROM SOURCE TO LAST DEVICE OR FIXTURE.
12. THE CONTRACTOR SHALL PATCH WALL/SLAB/FLOOR/ROOF TO MATCH EXISTING AFTER INSTALLATION OF ANY ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO ASSOCIATED WIRING, CONDUITS. PANELS, RECEPTACLES, OUTLETS, SUPPORTS, ETC. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
13. THIS ENTIRE SET OF DOCUMENTS FORMS THE BASIS OF AN AGREEMENT WITH ALL PRIME CONTRACTORS. ALL PRIME CONTRACTORS SHALL REVIEW ALL DRAWINGS & SPECIFICATIONS WITHIN THE ENTIRE SET FOR ADDITIONAL INFORMATION AND SCOPE OF WORK FOR EACH SPECIFIC TRADE. I.E., EACH PRIME CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK SHOWN OR IMPLIED ON THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS AND ALL POSSIBLE ANCILLARY SERVICES TO BE PROVIDED FOR COMPLETION OF THE PROJECT.
14. EXISTING TO REMAIN CIRCUITS AND ASSOCIATED CONDUITS & WIRES FOR REPLACEMENT LIGHT FIXTURES SHALL BE MODIFIED, EXTENDED AND REROUTED AS REQUIRED TO ACCOMMODATE NEW CEILING, OCCUPANCY SENSORS AND LIGHTING FIXTURES.
15. COORDINATE WITH OWNER TO REARRANGE EXISTING EQUIPMENT FURNITURE TO MAKE ROOM FOR NEW POWER PANEL(S).
16. CONTRACTOR SHALL FIELD VERIFY & SECURE EXISTING DEVICES (THERMOSTATS/TELEPHONES/SPEAKERS/RECEPTACLES/DATA OUTLETS/WIRELESS ACCESS POINTS) THAT ARE VISUALLY OBSERVED TO BE FALLING &/OR NOT PROPERLY SECURED TO THE WALL/CEILING.
17. OCCUPANCY SENSOR SHALL BE INSTALLED IN LEVEL WITH LIGHTING FIXTURES. CONTRACTOR SHALL COORDINATE LOCATION OF OCCUPANCY SENSORS WITH BEAMS SO THAT SENSOR COVERAGE IS NOT OBSTRUCTED AND PROVIDE PENDANT MOUNTING IF REQUIRED.
18. LOCATE WIRELESS MASTER CLOCK IN EXISTING MDF ROOM. PROVIDE MOUNTING SHELF AND EXTENSION CORD AS REQUIRED.
19. FIRE STOP ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND FIRE RATED CEILING.
20. COORDINATE VERTICAL DROPS/RUNS OF CONDUIT DROPS IN CORNER OF ROOMS.

LIST OF DRAWINGS

STANDARD MOUNTING HEIGHTS

CEILING	GLASSBREAK DETECTOR, PA SPEAKER, MOTION DETECTOR
6" ABOVE DOOR JAMB	EGRESS MOTION DETECTOR
12" BELOW CEILING OR 8'-0" AFF MAX	EXIT LIGHTS-LINE OF SIGHT SHALL CLEAR OBSTRUCTION OF PENDANT LIGHT FIXTURES SYSTEM CLOCKS
7'-4"	VISUAL FIRE ALARM AUDIO/VISUAL FIRE ALARM
6'-6"	TOP OF LTG OR POWER PNL TOP OF TEL CABINET/BACKBOARD
6'-0" MAX.	TOP OF SAFETY DISC SW TOP OF CONTACTORS TOP OF MAGNETIC STARTERS
4'-8" A.F.F. MAX	PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER
4'-0"	LIGHT SWITCHES TELE OUTLET "PS" (TOP OF COIN SLOT) TELEPHONE HANDSET (WALL MOUNTED) FIRE FIGHTER PHONE JACK MANUAL CONTROL DEVICES FIRE ALARM PULL STATION INTERCOM STATION, THERMOSTAT WALL MOUNTED INTERCOM, CARD READER EMERGENCY SHUTOFF SWITCHES
3'-0"	WALL MOUNTED DURESS ALARM PUSH-BUTTON
UNDER COUNTER OR DESK	DURESS ALARM PUSH-BUTTON, PUSH-BUTTON DOOR RELEASE
2'-0"	DURESS ALARM SPECIALTY OUTLET
1'-6"	* RECEPTACLES, DESK TYPE TELEPHONE OUTLETS, LOW TELEVISION OUTLETS, COMPUTER OUTLETS
0'-0"	FINISHED FLOOR (FF) IN FLOOR JUNCTION BOXES

1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
3. COORDINATE ANY MOUNTING HEIGHTS OF CONCERN WITH ARCHITECT.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	FIXTURE WATTS	FIXTURE TYPE	FIXTURE LUMENS	MOUNTED	MANUF.	CATALOG NO.	SYMBOL
A	1X4 SUSPENDED LED FIXTURE	120-277	35.6	LED	4500	PENDANT	LEDALITE	24G5LBCAG-4-7-1-E-W PROVIDE STRANDED AIRCRAFT CABLE WITH FULL VERTICAL ADJUSTMENT AT FIXTURE	
B	1X4 SURFACE MOUNTED LED FIXTURE	120-277	73	LED	7000	SURFACE	DAYBRITE	OWL470L835-UNV-DIM	
C	6" ROUND SURFACE MOUNTED DOWNLIGHT	120-277	15	LED	1500	SURFACE	LIGHTOLIER	C6SDL15835WZ10UCLW	

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURE MOUNTING HEIGHTS.

Designation: ITP0 — New Panel — Main Circuit Breaker: 100
Panel Voltage: 240/120V 1 PHASE 3 WIRE — Number of Poles: 18
AIC Rating: 10KAIC

No.	WIRE	GND	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	C.B. LOAD VA	C.B. TRIP A	C.B. POLE NO.	LOAD DESCRIPTION	CIR NO	No.	WIRE	GND
2	12	12	1	CLASSROOM B2 RECP	1	20	1080	1080			20	1	SPARE	2			
2	12	12	3	CLASSROOM B2 RECP	1	20	900		900		20	1	SPARE	4			
2	12	12	5	CLASSROOM B7 RECP	1	20	1080	1080			20	1	SPARE	6			
2	12	12	7	CLASSROOM B7 RECP	1	20	900		900		20	1	SPARE	8			
			9	SPACE				0					SPACE	10			
			11	SPACE					0				SPACE	12			
			13	SPACE				0					SPACE	14			
			15	SPACE					0				SPACE	16			
			17	SPACE				0					SPACE	18			

Panel Type: Nema 1 — Phase Conn. 2160 1800 VA — Remarks:
Mounting: Surface — Total Connected Load 4 17 AMPS
Location: BASEMENT CORRIDOR — Bus Size 125 — PROVIDE PANEL WITH INTEGRAL TVSS
Fed From: MDP — Voltage 240

Designation: ITP1 — New Panel — Main Circuit Breaker: 150
Panel Voltage: 240/120V 1 PHASE 3 WIRE — Number of Poles: 42
AIC Rating: 10KAIC

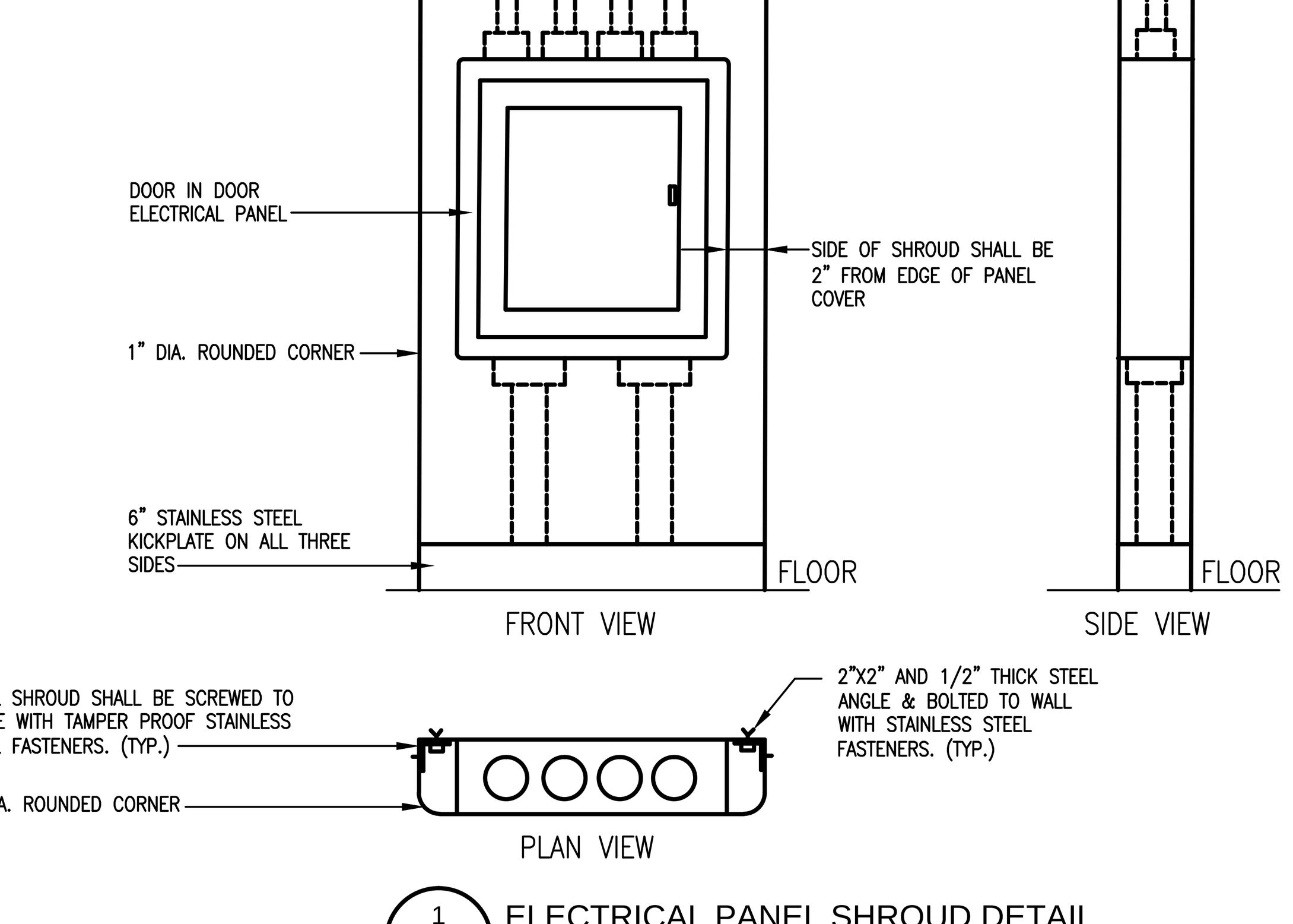
No.	WIRE	GND	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	C.B. LOAD VA	C.B. TRIP A	C.B. POLE NO.	LOAD DESCRIPTION	CIR NO	No.	WIRE	GND
2	12	12	1	CLASSROOM 101 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 108 RECP	2	2	12	12
2	12	12	3	CLASSROOM 101 RECP	1	20	900		1800	900	20	1	CLASSROOM 108 RECP	4	2	12	12
2	12	12	5	CLASSROOM 102 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 109 RECP	6	2	12	12
2	12	12	7	CLASSROOM 102 RECP	1	20	900		1800	900	20	1	CLASSROOM 109 RECP	8	2	12	12
2	12	12	9	CLASSROOM 103 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 110 RECP	10	2	12	12
2	12	12	11	CLASSROOM 103 RECP	1	20	900		1800	900	20	1	CLASSROOM 110 RECP	12	2	12	12
2	12	12	13	CLASSROOM 104 RECP	1	20	1080	1800		720	20	1	DRINKING FOUNTAIN RM 101	14	2	12	12
2	12	12	15	CLASSROOM 104 RECP	1	20	900		1620	720	20	1	DRINKING FOUNTAIN RM 102	16	2	12	12
2	12	12	17	CLASSROOM 105 RECP	1	20	1080	1800		720	20	1	DRINKING FOUNTAIN RM 103	18	2	12	12
2	12	12	19	CLASSROOM 105 RECP	1	20	900		1620	720	20	1	DRINKING FOUNTAIN RM 104	20	2	12	12
2	12	12	21	CLASSROOM 106 RECP	1	20	1080	1800		720	20	1	DRINKING FOUNTAIN RM 106	22	2	12	12
2	12	12	23	CLASSROOM 106 RECP	1	20	900		1620	720	20	1	DRINKING FOUNTAIN RM 110	24	2	12	12
			25	SPARE	1	20		900		900	20	1	FRIDGE RM 105	26	2	12	12
			27	SPARE	1	20			3200	3200	40	2	RANGE RM 105	28	3	8	8
			29	SPARE	1	20		3200		3200				30			
			31	SPARE	1	20			900	900	20	1	MICROWAVE RM 105	32	2	12	12
			33	SPACE				1080		1080	20	1	CABINET HOOD RM 105	34	2	12	12
			35	SPACE					0				SPACE	36			
			37	SPACE				0					SPACE	38			
			39	SPACE					0				SPACE	40			
			41	SPACE				0					SPACE	42			

Panel Type: Nema 1 — Phase Conn. 17060 14360 VA — Remarks:
Mounting: Surface — Total Connected Load 31 131 AMPS
Location: 1ST FLOOR CORRIDOR — Bus Size 225 — PROVIDE PANEL WITH INTEGRAL TVSS
Fed From: MDP — Voltage 240

Designation: ITP2 — New Panel — Main Circuit Breaker: 100
Panel Voltage: 240/120V 1 PHASE 3 WIRE — Number of Poles: 18
AIC Rating: 10KAIC

No.	WIRE	GND	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	C.B. LOAD VA	C.B. TRIP A	C.B. POLE NO.	LOAD DESCRIPTION	CIR NO	No.	WIRE	GND
2	12	12	1	CLASSROOM 204 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 209 RECP	2	2	12	12
2	12	12	3	CLASSROOM 204 RECP	1	20	900		1800	900	20	1	CLASSROOM 209 RECP	4	2	12	12
2	12	12	5	CLASSROOM 205 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 210 RECP	6	2	12	12
2	12	12	7	CLASSROOM 205 RECP	1	20	900		1800	900	20	1	CLASSROOM 210 RECP	8	2	12	12
2	12	12	9	CLASSROOM 207 RECP	1	20	1080	1080			20	1	SPARE	10			
2	12	12	11	CLASSROOM 207 RECP	1	20	900		900		20	1	SPARE	12			
2	12	12	13	CLASSROOM 208 RECP	1	20	1080	1080			20	1	SPARE	14			
2	12	12	15	CLASSROOM 208 RECP	1	20	900		900		20	1	SPARE	16			
			17	SPACE				0					SPACE	18			

Panel Type: Nema 1 — Phase Conn. 6480 5400 VA — Remarks:
Mounting: Surface — Total Connected Load 12 50 AMPS
Location: 2ND FLOOR CORRIDOR — Bus Size 125 — PROVIDE PANEL WITH INTEGRAL TVSS
Fed From: MDP — Voltage 240



1 / E001 ELECTRICAL PANEL SHROUD DETAIL
SCALE: NONE

THE SCHOOL DISTRICT OF PHILADELPHIA
OFFICE OF CAPITAL PROGRAMS
440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL: COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL SANJEEV AGARWAL ENGINEER No. PE070557
SANJEEV AGARWAL, P.E. PA PE070557 — DATE 1/16/2019

THE SHEWARD PARTNERSHIP, LLC
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t. 215.751.9301 f. 215.751.9302
2300 Chestnut Street Philadelphia, PA 19103

PES
PRINCETON ENGINEERING SERVICES, PC
101 Morgan Lane - Suite 205, Plainsboro, NJ 08536
t. 609.452.9700 www.princetonengineering.services

BID SUBMISSION
FEBRUARY 5, 2019

NO.	DATE	REVISION
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	4/24/19	ADDENDUM 1

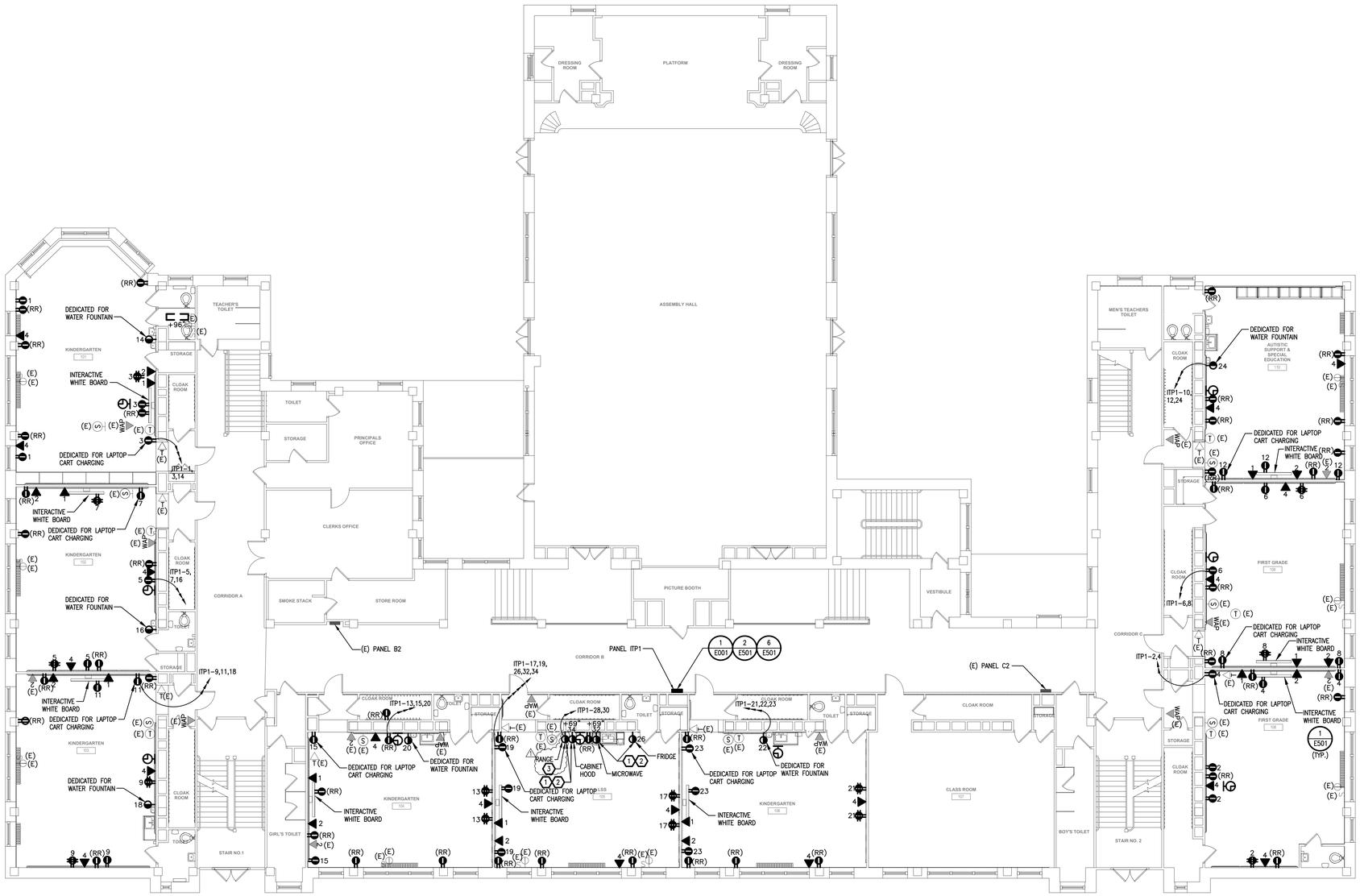
SCHOOL & LOCATION
James J. Sullivan School
5300 Ditman St,
Philadelphia, PA 19124

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
COVER SHEET

DRAWING SCALE: AS INDICATED
LOCATION NO.: XXXX — FILE NO.: XXX
DRAWN BY: NG — CHECKED BY: SA
GC B-019 C OF 2018 / 19
EC B-020 C OF 2018 / 19

DRAWING NO.
E - 001.0



1 / E101 FIRST FLOOR POWER & SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL KEY NOTES

1. COORDINATE POWER AND WIRING REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE LOCATION OF RECEPTACLE IN FIELD.
3. RECEPTACLE SHALL BE SUITABLE FOR 50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING NEMA 14-50R.

N

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PROJECT TITLE

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DRAWING TITLE

FIRST FLOOR POWER & SYSTEMS PLAN

DRAWING SCALE **AS INDICATED**	
LOCATION NO. XXXX	FILE NO. XXX
DRAWN BY NG	CHECKED BY SA

GC	**B-019 C**	**OF**	**2018 / 19**
EC	**B-020 C**	**OF**	**2018 / 19**

DRAWING NO.

E - 101.0

SHEET 27 OF 35