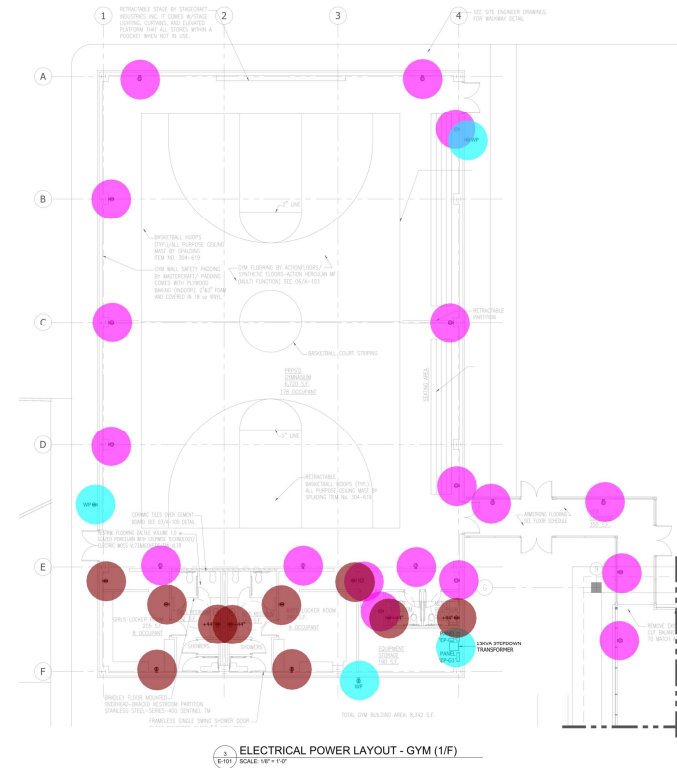
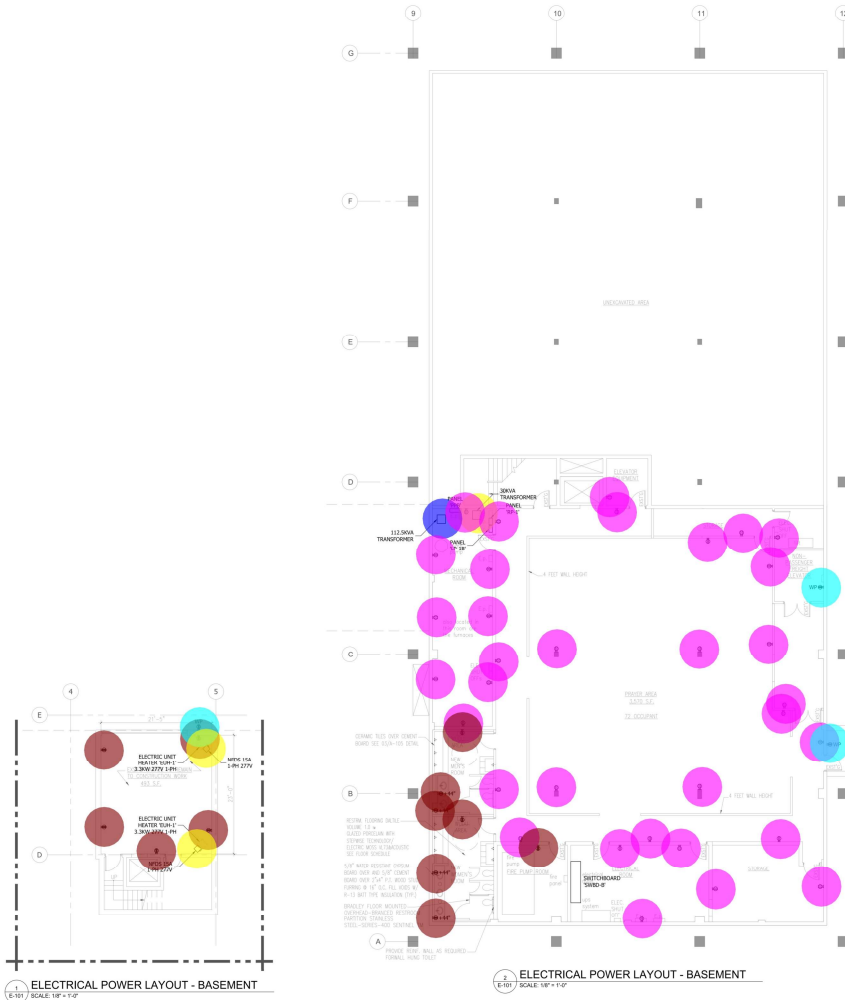


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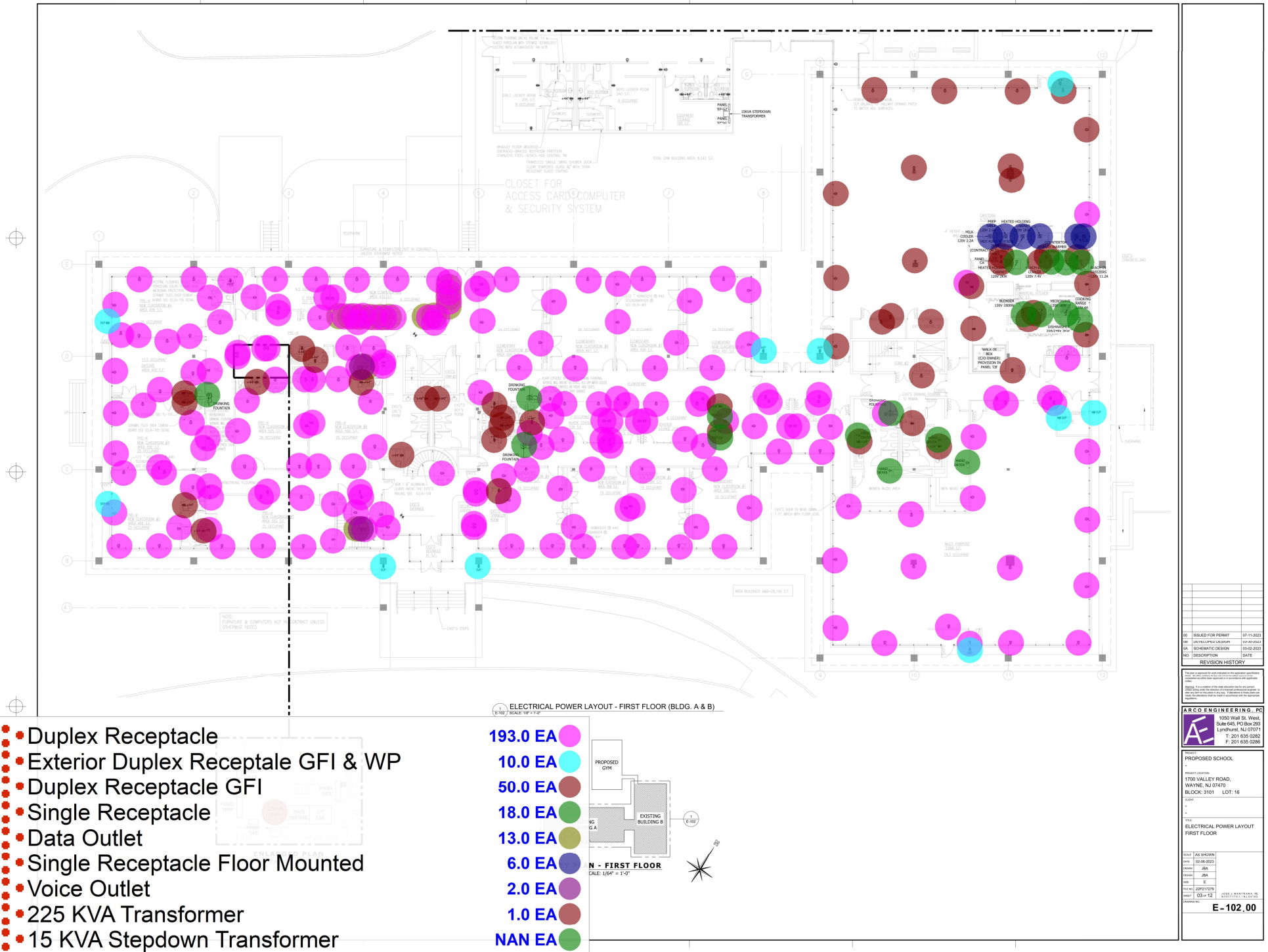
ARCO ENGINEERING, PC
1050 Wall St. West,
Suite 405, PO Box 450
Lynchburg, NJ 07071
T: 201 635 0282
F: 201 635 0288

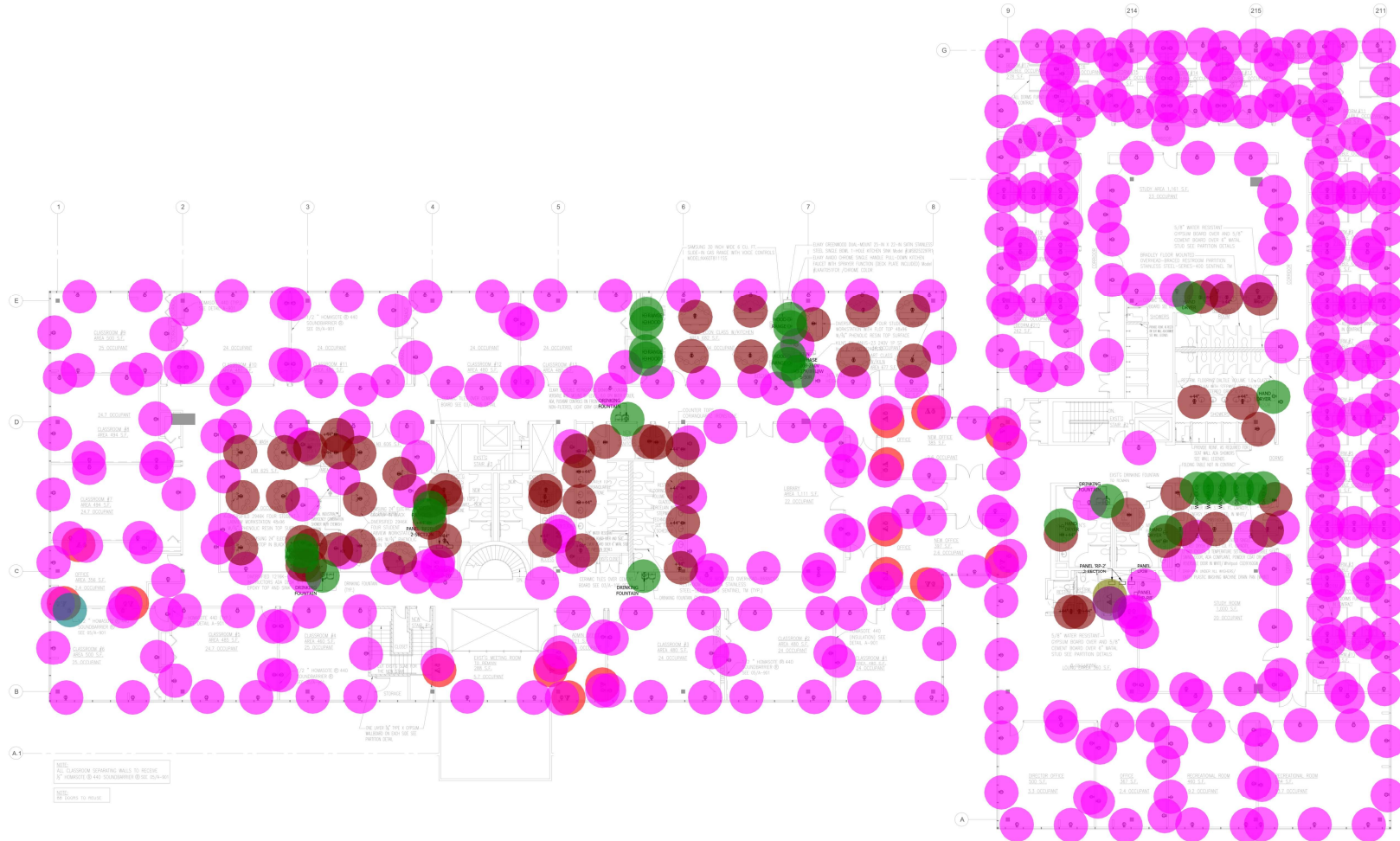
PROPOSED SCHOOL
PROJECT LOCATION:
1700 VALLEY ROAD,
WAYNE, NJ 07479
BLOCK: 3101 LOT: 16

**ELECTRICAL POWER LAYOUT
BASEMENT AND GYM PLAN
(FIRST FLOOR)**

DATE: 02-06-2023
DRAWN: JBA
CHECKED: E
DATE: 02-06-2023
SCALE: 1/8" = 1'-0"

E-101.00

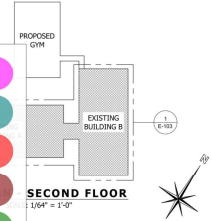




ELECTRICAL POWER LAYOUT - SECOND FLOOR (BLDG. A & B)
SCALE: 1/8" = 1'-0"

- Duplex Receptacle
- Duplex Receptacle Isolated Ground
- Data & Voice Outlet
- Duplex Receptacle GFI
- Single Receptacle
- Data Outlet
- Voice Outlet

- 395.0 EA
- 1.0 EA
- 16.0 EA
- 62.0 EA
- 27.0 EA
- 1.0 EA
- 1.0 EA



NO.	DESCRIPTION	DATE
01	ISSUED FOR PERMIT	07-11-2023
02	ISSUED FOR PERMIT	07-11-2023
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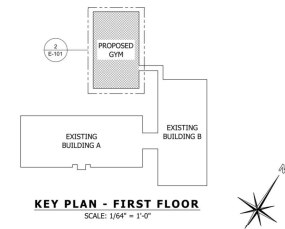
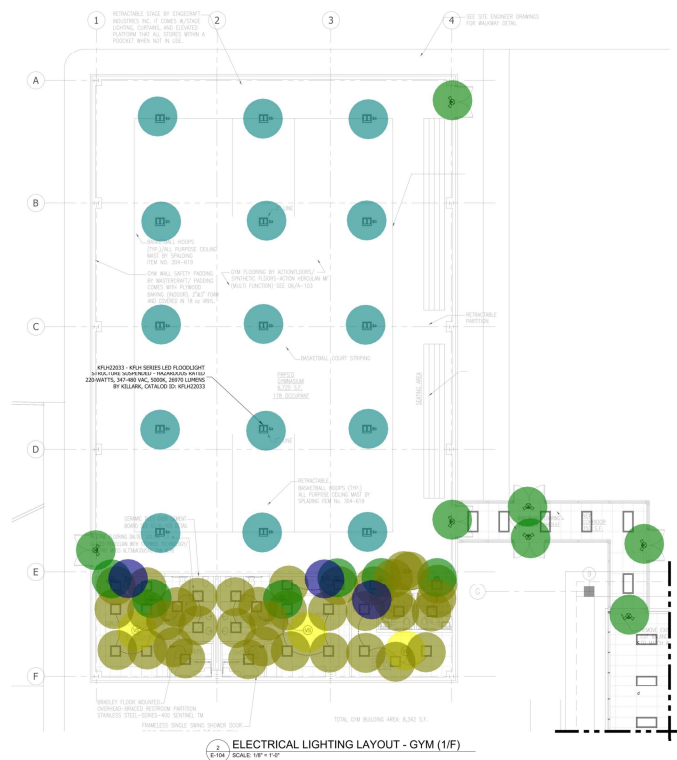
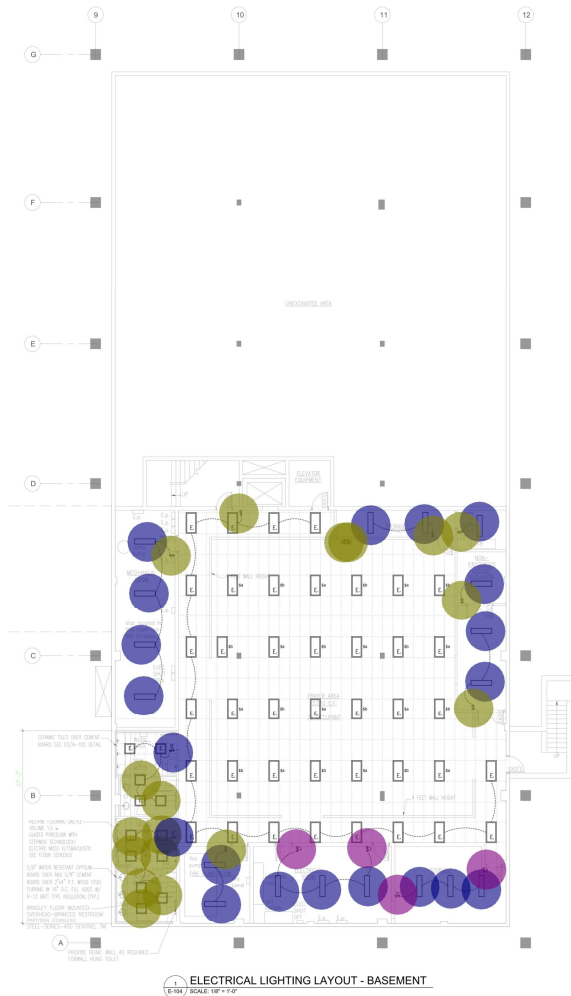
ARCO ENGINEERING, PC
1050 Wall St. West
Suite 405, PO Box 450
Lynchburg, NJ 07071
T: 201 635 0282
F: 201 635 0288

PROPOSED SCHOOL
1700 VALLEY ROAD,
WAYNE, NJ 07479
BLOCK: 3101 LOT: 16

ELECTRICAL POWER LAYOUT
SECOND FLOOR

DATE	BY	CHKD
02-06-2023	JBA	JBA
02-06-2023	JBA	JBA
02-06-2023	JBA	JBA
02-06-2023	JBA	JBA
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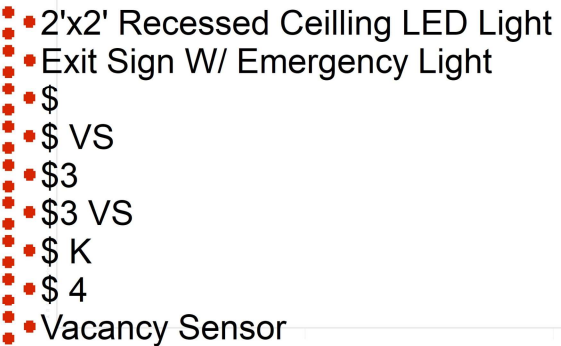
E-103.00



- 2'x2' Recessed Ceiling LED Light
- 1'x4' Recessed Ceiling LED Light
- 20"x18" Structure Suspended LED Flood Light
- 2'x4' Recessed Ceiling LED Light
- Exit Sign W/ Emergency Light
- \$
- \$ VS
- \$3
- Vacancy Sensor

- 37.0 EA ●
18.0 EA ●
15.0 EA ●
0.0 EA ●
13.0 EA ●
18.0 EA ●
5.0 EA ●
4.0 EA ●
3.0 EA ●

[illegible]



00	ISSUED FOR PERMIT	07-11-2023
01	USE/REUSE/REUSE/REUSE	10-20-2023
0A	SCHEMATIC DESIGN	03-02-2023
NO.	DESCRIPTION	DATE

REVISION HISTORY

Warning: It is a violation of the state education law for any person, acting under the direction of a licensed professional engineer, to alter any test on this plate in any way. If alterations to these plates are made, the alterations shall be made in accordance with the appropriate

ARCO ENGINEERING, PC

 1050 Wall St. West,
Suite 645, PO Box 293
Lyndhurst, NJ 07071
T: 201 635 0282
F: 201 635 0286

PROPOSED SCHOOL

PROJECT LOCATION
1700 VALLEY ROAD,
WAYNE, NJ 07470
BLOCK: 3101 LOT: 16

QJEN
R

FILE:
ELECTRICAL LIGHTING LAYOUT
FIRST FLOOR

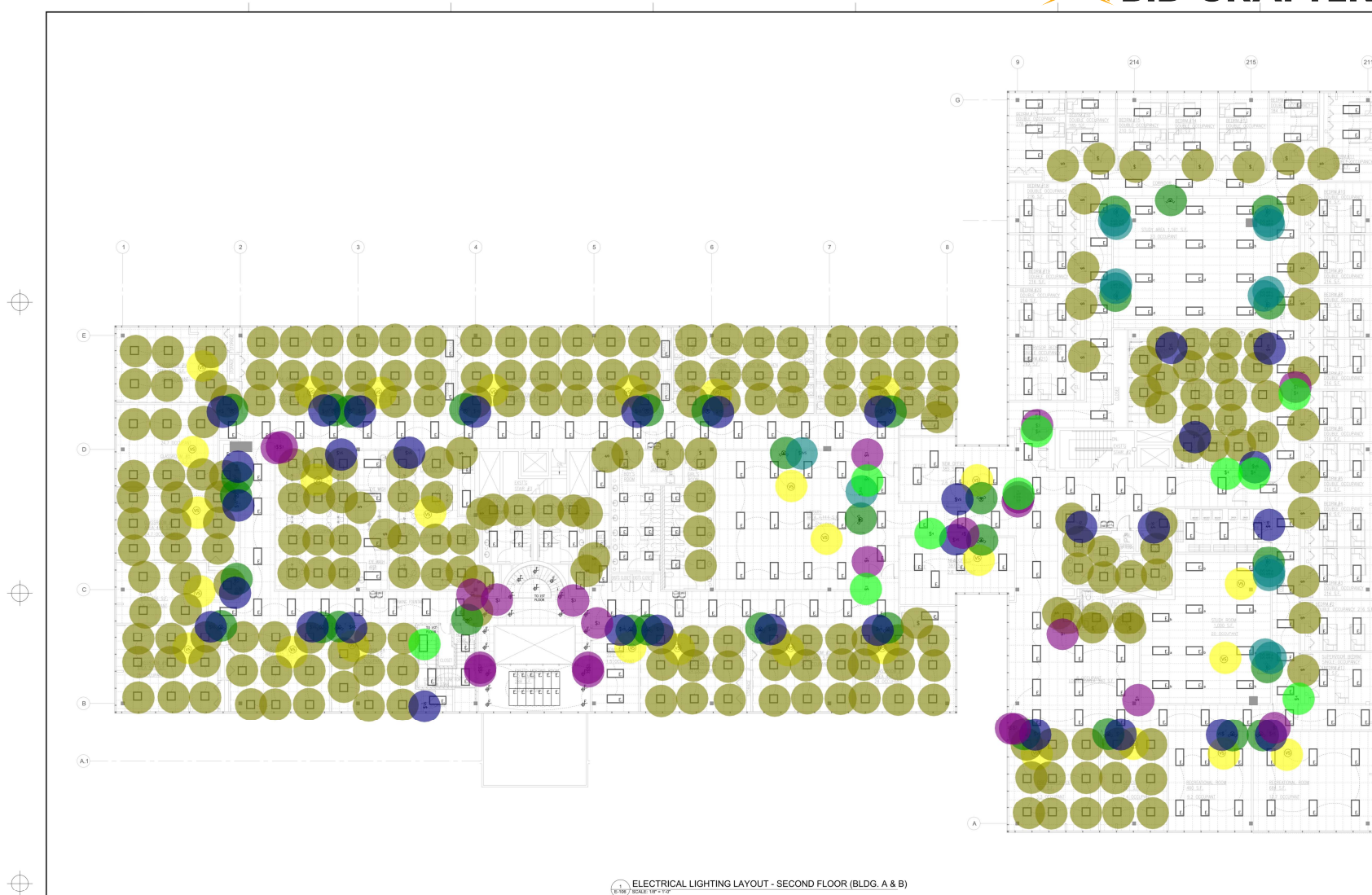
SCALE	AS SHOWN
DATE	02-06-2023

ORIGIN	JBA
DESIGN	JBA

DATE	E	JOSE J. MANTRANA, PE
FILE NO.	22P217279	
ISSUE	06 OF 12	

PRICE	50	12	RV077173-1 / NJ04183
DRAWING NO.		E-105.00	

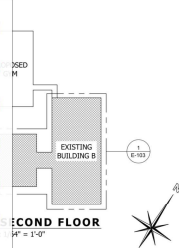
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 ELECTRICAL LIGHTING LAYOUT - SECOND FLOOR (BLDG. A & B)
E-106 SCALE: 1/8" = 1'-0"

- 2'x2' Recessed Ceiling LED Light
- 2'x4' Recessed Ceiling LED Light
- Exit Sign W/ Emergency Light
- \$ VS
- \$3
- \$
- \$ 4
- \$3 VS
- Vacancy Sensor

- 218.0 EA ●
1.0 EA ●
33.0 EA ●
33.0 EA ●
22.0 EA ●
38.0 EA ●
9.0 EA ●
14.0 EA ●
29.0 EA ●



00	ISSUED FOR PERMIT	07-11-2023
00	UNDEVELOPED DESIGN	00-00-2023
0A	SCHEMATIC DESIGN	00-02-2023
NO.	DESCRIPTION	DATE
REVISION HISTORY		

Warning: It is a violation of the state education law for any person, unless acting under the direction of a licensed professional engineer, to alter any part of this plan in any way. If alterations to these plans are made, the alterations shall be made in accordance with the appropriate requirements.

ARCO ENGINEERING, PC

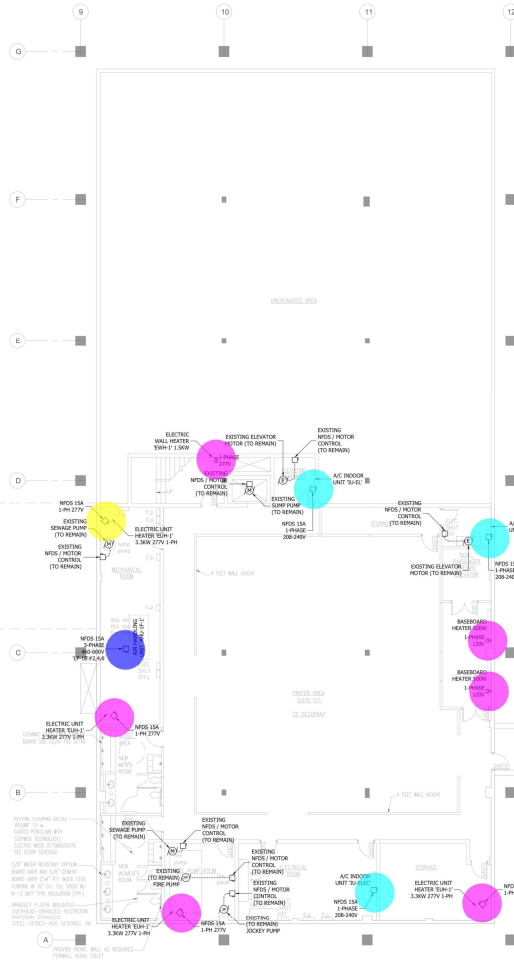
 1050 Wall St. West,
 Suite 645, PO Box 293
 Lyndhurst, NJ 07071
 T: 201 635 0282
 F: 201 635 0286

PROJECT:
PROPOSED SCHOOL

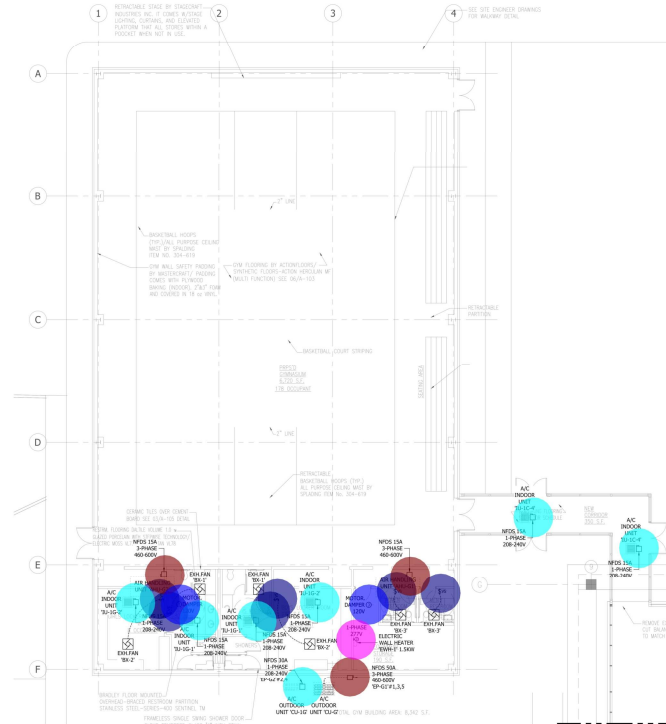
PROJECT LOCATION:
1700 VALLEY ROAD,
WAYNE, NJ 07470
BLOCK: 3101 LOT: 16

FILE:
ELECTRICAL LIGHTING LAYOUT
SECOND FLOOR

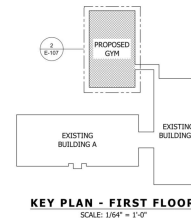
SCALE	AS SHOWN	JOSE J. SANTRANA, PE NY071173-J & J 04162
DATE	02-06-2023	
DRAWN	JBA	
DESIGN	JBA	
SIZE	E	
FILE NO.	22P217275	
SHEET	07 OF 12	
DRAWING NO.		E-106.00



EQUIPMENT POWER LAYOUT - BASEMENT
SCALE: 1/8" = 1'-0"



EQUIPMENT POWER LAYOUT - GYM (1/F)
SCALE: 1/8" = 1'-0"



- Safety Switch 15A/277V
- Safety Switch 15A/460-600V
- Safety Switch 15A/277V
- Safety Switch 15A/208-240V
- Safety Switch 15A/460-600V
- \$ VS
- Ceiling Mounted Junction Box
- Flush Mounted Junction Box

- 1.0 EA
- 1.0 EA
- 3.0 EA
- 10.0 EA
- 3.0 EA
- 6.0 EA
- 2.0 EA
- 4.0 EA

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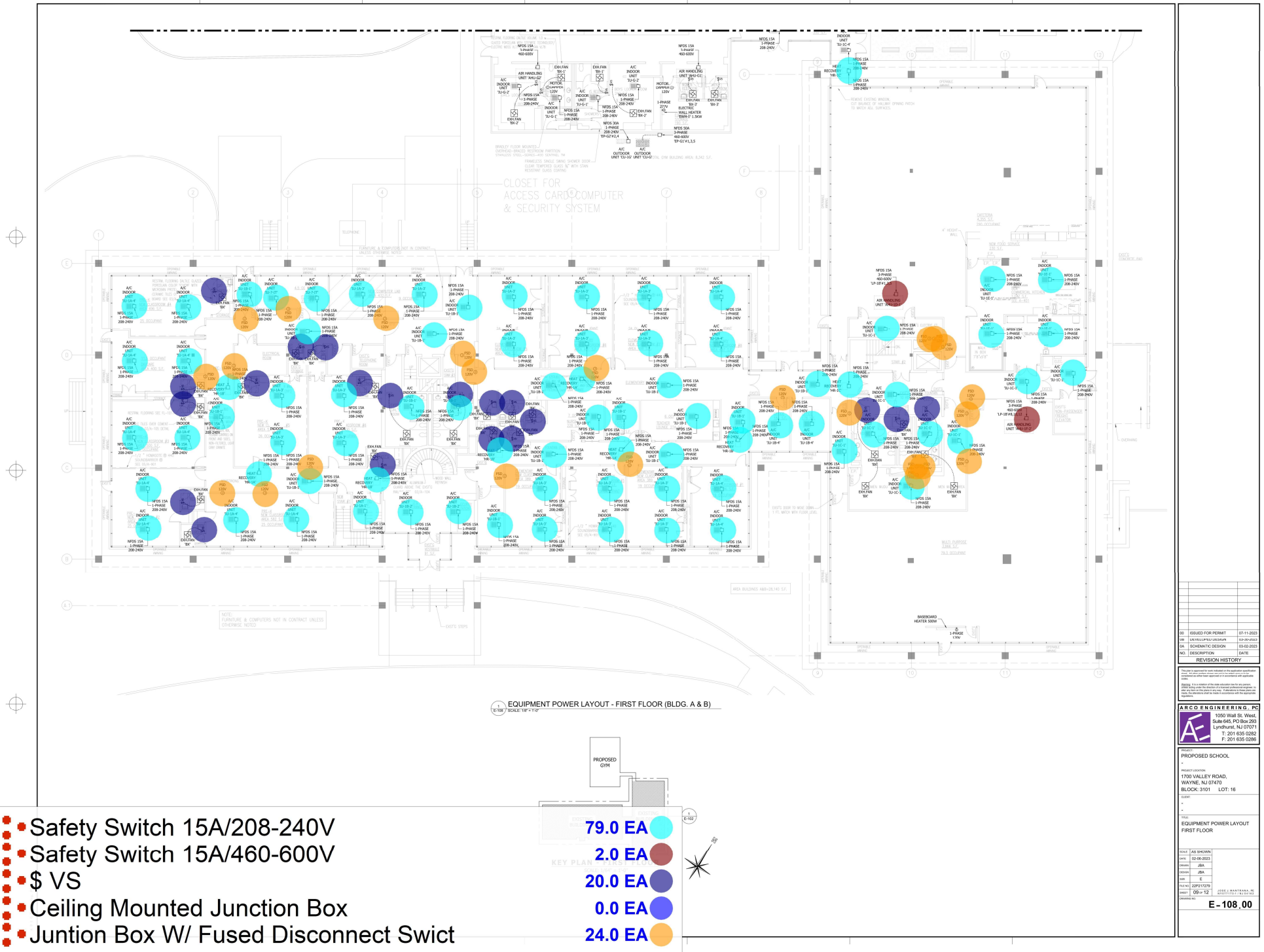
ARCO ENGINEERING, PC
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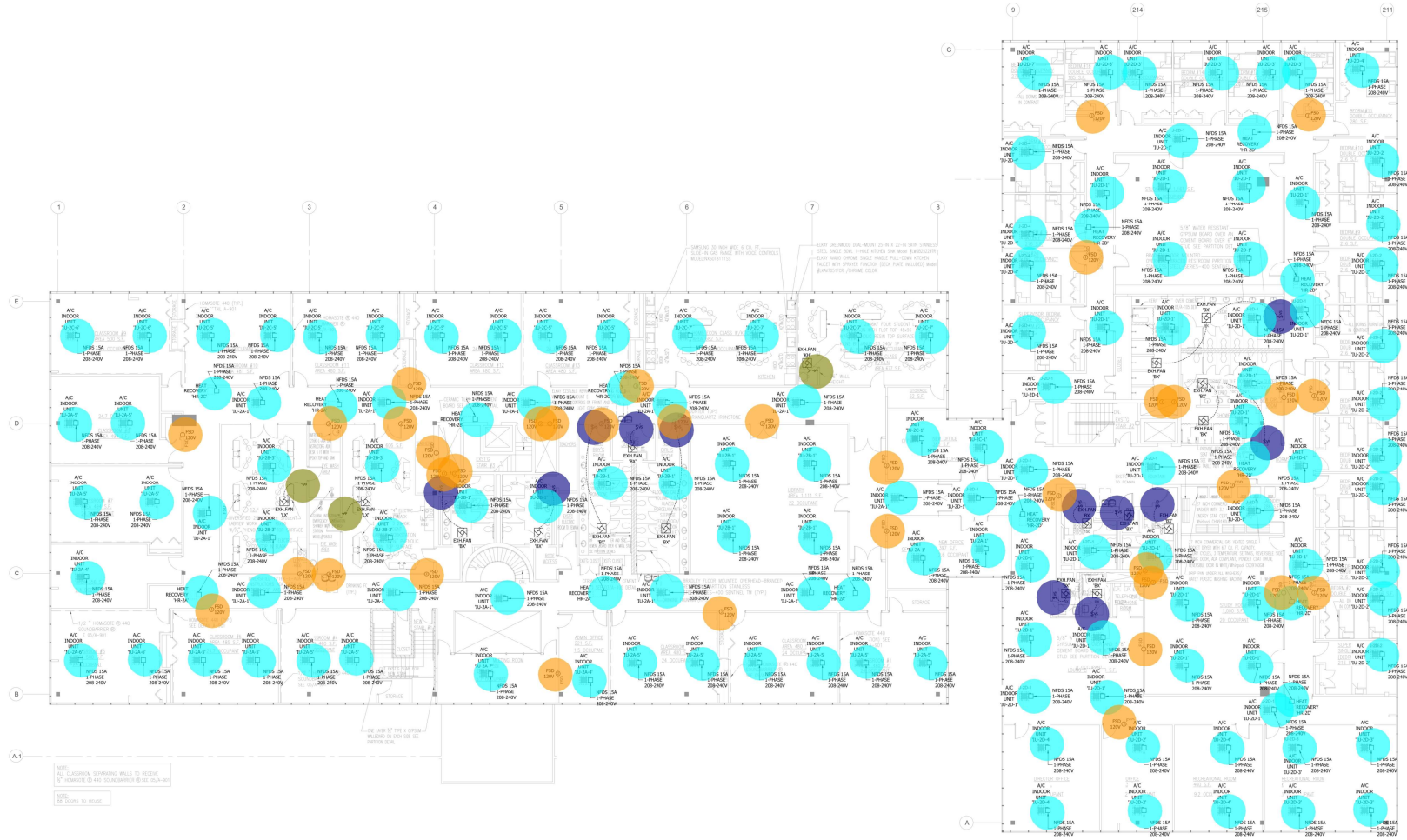
PROPOSED SCHOOL
PROJECT LOCATION
1700 VALLEY ROAD,
WAYNE, NJ 07479
BLOCK: 3101 LOT: 16

**EQUIPMENT POWER LAYOUT
BASEMENT AND GYM PLAN
(FIRST FLOOR)**

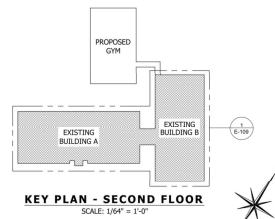
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07-06-2023	07-06-2023
08-06-2023	08-06-2023
09-06-2023	09-06-2023
10-06-2023	10-06-2023

E - 107.00





EQUIPMENT POWER LAYOUT - SECOND FLOOR (BLDG. A & B)
SCALE: 1/8" = 1'-0"



- Safety Switch 15A/208-240V 138.0 EA
- \$ 3.0 EA
- \$ VS 12.0 EA
- Junction Box W/ Fused Disconnect Swict 36.0 EA

NO.	DESCRIPTION	DATE
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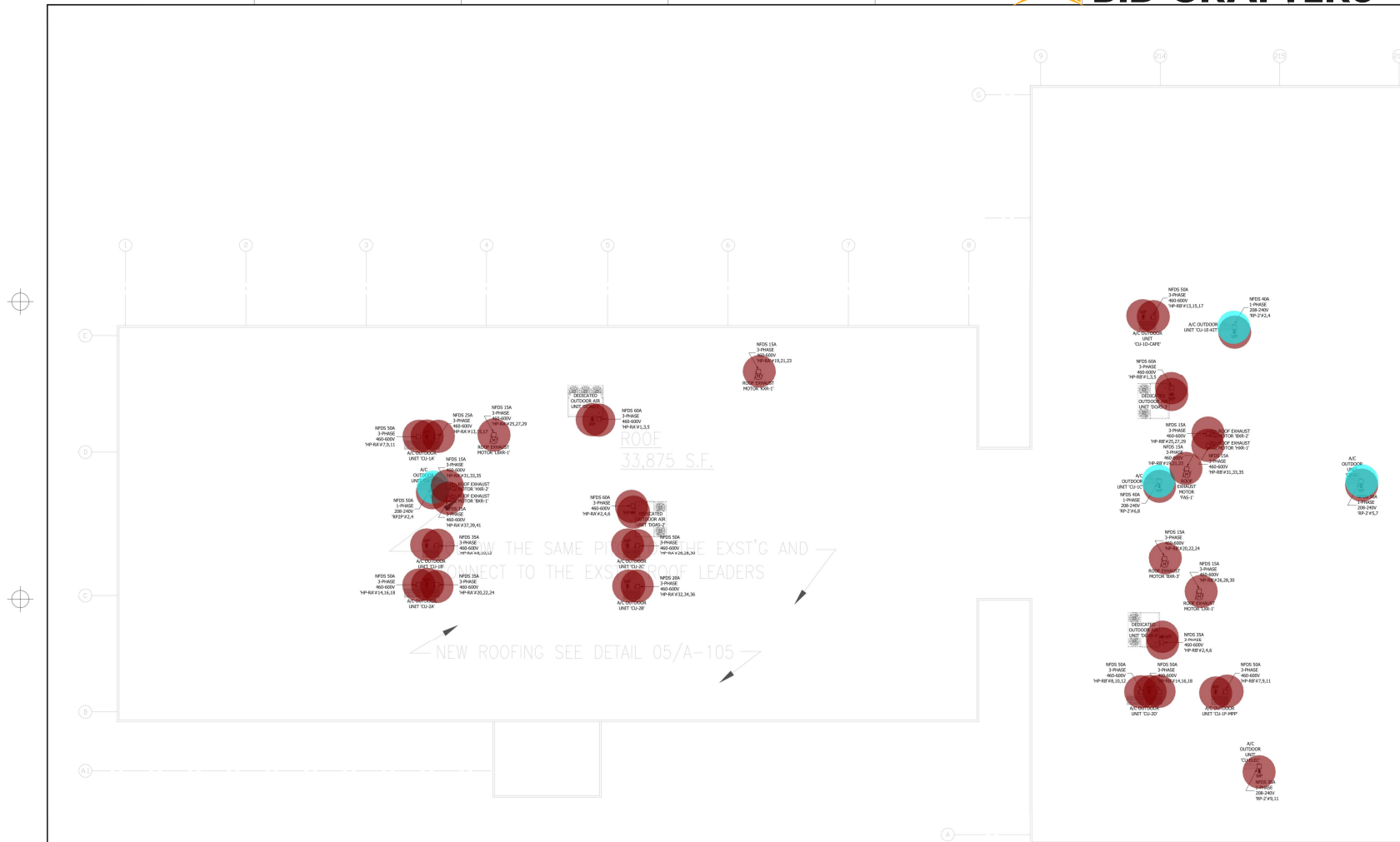
ARCO ENGINEERING, PC
1050 Wall St. West,
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Lynchburg, NJ 07071
T: 201 635 0282
F: 201 635 0288

PROPOSED SCHOOL
1700 VALLEY ROAD,
WAYNE, NJ 07470
BLOCK: 3101 LOT: 16

**EQUIPMENT POWER LAYOUT
SECOND FLOOR**

DATE: 02-06-2023
BY: JBA
CHK: E
APP: 20231229
REV: 10 of 12
DATE: 02/06/2023
BY: JBA
CHK: E
APP: 20231229
REV: 10 of 12

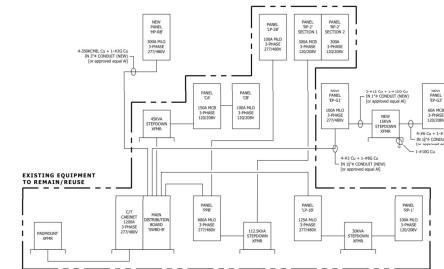
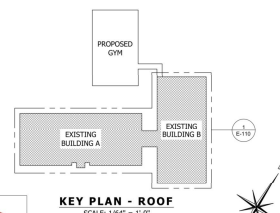
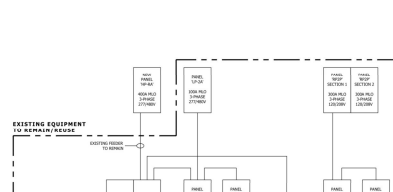
E - 109.00



- NOTES:**
1. ELECTRICAL CONTRACTOR TO TAP TO EXISTING PANEL. CONTRACTOR TO VERIFY EXISTING LOAD.
 2. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO BALANCE LOAD OF THE PANELBOARD.
 3. UPDATE PANELBOARD DIRECTORY UPON COMPLETION OF THE PROJECT.
 4. NO USE EXISTING UNLESS WHEN POSSIBLE. CONTRACTOR TO VERIFY IN FIELD.
 5. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION MANUAL.
 6. CONTRACTOR TO VERIFY EXISTING ELECTRICAL EQUIPMENT.

EQUIPMENT POWER LAYOUT - ROOF PLAN (BLDG. A & B)

- NOTES:**
1. ELECTRICAL CONTRACTOR TO TAP TO EXISTING PANEL. CONTRACTOR TO VERIFY EXISTING LOAD.
 2. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO BALANCE LOAD OF THE PANELBOARD.
 3. UPDATE PANELBOARD DIRECTORY UPON COMPLETION OF THE PROJECT.
 4. NO USE EXISTING UNLESS WHEN POSSIBLE. CONTRACTOR TO VERIFY IN FIELD.
 5. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION MANUAL.
 6. CONTRACTOR TO VERIFY EXISTING ELECTRICAL EQUIPMENT.



- Safety Switch 15A/460-600V **24.0 EA**
- Safety Switch 15A/208-240V **4.0 EA**
- Duplex Receptacle GFI **17.0 EA**

ISSUED FOR PERMIT	07-11-2023
FOR REVIEW AND APPROVAL	07-20-2023
SCHEMATIC DESIGN	08-02-2023
REVISION HISTORY	DATE
1. ISSUED FOR PERMIT	07-11-2023
2. FOR REVIEW AND APPROVAL	07-20-2023
3. SCHEMATIC DESIGN	08-02-2023

ARCO ENGINEERING, PC
 1050 Wall St. West,
 Suite 605, PO Box 450
 Lyndhurst, NJ 07071
 T: 201 635 0282
 F: 201 635 0288

PROPOSED SCHOOL
 PROJECT LOCATION:
 1700 VALLEY ROAD,
 WAYNE, NJ 07470
 BLOCK 3101 LOT 16

**EQUIPMENT POWER LAYOUT
 ROOF PLAN
 ELECTRICAL SINGLE-LINE
 RISER DIAGRAM**

DATE: AS SHOWN
 SHEET: 02-05-2023
 DRAWN: JBA
 CHECKED: E
 FILE NO: 220717279
 SHEET: 11 of 12
 TOTAL SHEETS: 12

E-110.00

[illegible][illegible][illegible][illegible]

- Panel: EP-G1
- Panel: EP-G2
- Panel: HP-RS
- Panel: HP-RB

1.0 EA 

1.0 EA 

1.0 EA 

1.0 EA 

00	ISSUED FOR PERMIT	07-11-2022
01	DEVELOPED DESIGN	03-20-2022
0A	SCHEMATIC DESIGN	03-02-2022
NO.	DESCRIPTION	DATE

REVISION HISTORY

Warning: It is a violation of the state education law for any person, including a teacher, to use any part of this curriculum as a basis for any assessment or evaluation of a student's performance.

ARCO ENGINEERING, PC
 1050 Wall St. West,
 Suite 645, PO Box 293
 Lyndhurst, NJ 07071
 T: 201 635 0282
 F: 201 635 0286

PROPOSED SCHOOL
PROJECT LOCATION
1700 VALLEY ROAD,
WAYNE, NJ 07470
BLOCK: 3101 LOT: 16

PANELBOARD SCHEDULE

SCALE	AS SHOWN	JOSE J. WANTRANA, PE NY077175-2 / NJ 24162
DATE	02-06-2023	
DRAWN	JBA	
DESIGN	JBA	
SIZE	E	
PLOT NO.	0002-17275	
SHEET	12 of 12	
DRAWING NO.		

12	JOSE J MANTRANA, PO NY077175-1 / NJ04102
E-601.00	

**BID CRAFTERS**

DESCRIPTION	UNIT	QUANTITY	WAS TAG E	QUANTITY W/ WASTE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUBTOTAL
ELECTRICAL										
DISTRIBUTION										
TRANSFORMER										
30 KVA Transformer	EA	1	0%	1	11.149	\$ 105.54	\$ 1,176.67	\$ 3,056.00	\$ 4,232.67	\$ 4,232.67
112.5 KVA Transformer	EA	1	0%	1	14.510	\$ 105.54	\$ 1,531.39	\$ 8,506.00	\$ 10,037.39	\$ 10,037.39
15 KVA Stepdown Transformer	EA	1	0%	1	10.525	\$ 105.54	\$ 1,110.81	\$ 2,511.00	\$ 3,621.81	\$ 3,621.81
225 KVA Transformer	EA	1	0%	1	17.163	\$ 105.54	\$ 1,811.38	\$ 14,266.00	\$ 16,077.38	\$ 16,077.38
PANEL										
Panel: EP-G1 - Surface Mounted - 24 Poles - 277/480 V - 3-Phase	EA	1	0%	1	3.810	\$ 105.54	\$ 402.11	\$ 1,225.11	\$ 1,627.22	\$ 1,627.22
Panel: EP-G2 - Surface Mounted - 24 Poles - 120/208 V - 3-Phase	EA	1	0%	1	3.148	\$ 105.54	\$ 332.24	\$ 660.00	\$ 992.24	\$ 992.24
Panel: HP-RS - Surface Mounted - 42 Poles - 277/480 V - 3-Phase	EA	1	0%	1	4.605	\$ 105.54	\$ 486.01	\$ 2,143.94	\$ 2,629.95	\$ 2,629.95
Panel: HP-RB - Surface Mounted - 42 Poles - 277/480 V - 3-Phase	EA	1	0%	1	11.513	\$ 105.54	\$ 1,215.08	\$ 2,143.94	\$ 3,359.02	\$ 3,359.02
POWER										
DEVICES										
Data & Voice Outlet	EA	16	0%	16	0.392	\$ 105.54	\$ 41.40	\$ 5.70	\$ 47.10	\$ 753.67
Data Outlet	EA	14	0%	14	0.392	\$ 105.54	\$ 41.40	\$ 5.70	\$ 47.10	\$ 659.46
Duplex Receptacle	EA	639	0%	639	0.395	\$ 105.54	\$ 41.65	\$ 5.80	\$ 47.45	\$ 30,319.09
Duplex Receptacle GFI	EA	151	0%	151	0.435	\$ 105.54	\$ 45.87	\$ 9.99	\$ 55.86	\$ 8,434.76
Duplex Receptacle Isolated Ground	EA	1	0%	1	0.492	\$ 105.54	\$ 51.96	\$ 11.43	\$ 63.39	\$ 63.39
Exterior Duplex Receptacle GFI & WP	EA	16	0%	16	0.514	\$ 105.54	\$ 54.23	\$ 23.47	\$ 77.70	\$ 1,243.22
Single Receptacle	EA	45	0%	45	0.395	\$ 105.54	\$ 41.65	\$ 5.80	\$ 47.45	\$ 2,135.15
Single Receptacle Floor Mounted	EA	6	0%	6	0.395	\$ 105.54	\$ 41.65	\$ 5.80	\$ 47.45	\$ 284.69
Voice Outlet	EA	3	0%	3	0.392	\$ 105.54	\$ 41.40	\$ 5.70	\$ 47.10	\$ 141.31
Vacancy Sensor	EA	55	0%	55	0.872	\$ 105.54	\$ 91.98	\$ 54.49	\$ 146.47	\$ 8,055.97
LIGHTING										
LIGHTING FIXTURES										
1'x4' Recessed Ceiling LED Light	EA	18	0%	18	1.528	\$ 105.54	\$ 161.27	\$ 81.83	\$ 243.10	\$ 4,375.71
2'x2' Recessed Ceiling LED Light	EA	275	0%	275	1.129	\$ 105.54	\$ 119.15	\$ 58.00	\$ 177.15	\$ 48,717.53
2'x4' Recessed Ceiling LED Light	EA	1	0%	1	1.934	\$ 105.54	\$ 204.11	\$ 129.00	\$ 333.11	\$ 333.11
20"x18" Structure Suspended LED Flood Light MFR: KILLARK Ctalo ID: KFLH22033	EA	15	0%	15	3.419	\$ 105.54	\$ 360.84	\$ 1,164.28	\$ 1,525.12	\$ 22,876.82



Exit Sign W/ Emergency Light	EA	99	0%	99	1.914	\$ 105.54	\$ 202.00	\$ 126.04	\$ 328.04	\$ 32,476.31
LIGHTING CONTROL										
Single Pole Toggle Switch	EA	85	0%	85	0.480	\$ 105.54	\$ 50.66	\$ 2.00	\$ 52.66	\$ 4,476.03
Single-Pole Toggle Switch VS	EA	119	0%	119	0.480	\$ 105.54	\$ 50.66	\$ 2.00	\$ 52.66	\$ 6,266.44
Three-Way Toggle Switch	EA	49	0%	49	0.495	\$ 105.54	\$ 52.24	\$ 4.50	\$ 56.74	\$ 2,780.37
Three-Way Toggle Switch VS	EA	18	0%	18	0.495	\$ 105.54	\$ 52.24	\$ 4.50	\$ 56.74	\$ 1,021.36
Single Pole Toggle Switch-Key Operated	EA	2	0%	2	0.668	\$ 105.54	\$ 70.50	\$ 23.29	\$ 93.79	\$ 187.58
Four-Way Toggle Switch	EA	12	0%	12	0.565	\$ 105.54	\$ 59.63	\$ 9.99	\$ 69.62	\$ 835.44
SAFETY SWITCH										
Safety Switch 15A/277V	EA	3	0%	3	0.561	\$ 105.54	\$ 59.21	\$ 25.30	\$ 84.51	\$ 253.52
Safety Switch 15A/460-600V	EA	1	0%	1	0.729	\$ 105.54	\$ 76.94	\$ 58.55	\$ 135.49	\$ 135.49
Safety Switch 15A/277V	EA	3	0%	3	0.561	\$ 105.54	\$ 59.21	\$ 25.30	\$ 84.51	\$ 253.52
Safety Switch 15A/208-240V	EA	231	0%	231	0.561	\$ 105.54	\$ 59.21	\$ 25.30	\$ 84.51	\$ 19,521.33
Safety Switch 15A/460-600V	EA	29	0%	29	0.729	\$ 105.54	\$ 76.94	\$ 58.55	\$ 135.49	\$ 3,929.17
MISSCULINIAs										
Ceiling Mounted Junction Box	EA	2	0%	2	0.529	\$ 105.54	\$ 55.83	\$ 24.49	\$ 80.32	\$ 160.64
Flush Mounted Junction Box	EA	4	0%	4	0.529	\$ 105.54	\$ 55.83	\$ 24.49	\$ 80.32	\$ 321.28
Junction Box W/ Fused Disconnect Switch	EA	60	0%	60	0.853	\$ 105.54	\$ 90.03	\$ 78.79	\$ 168.82	\$ 10,128.94
ALLOWANCE										
Allowance For Wiring & Conduits (70,760	LS	1	0%	1	566.080	\$ 105.54	\$ 59,744.08	\$ 77,836.00	\$ 137,580.08	\$ 137,580.08
SUBTOTAL									\$	391,299