

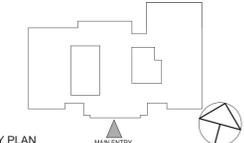
TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
 TUCKAHOE UNION FREE SCHOOL DISTRICT
 65 SIWANOV BLVD
 EASTCHESTER, N. Y. 10709

KG+D listen imagine build
 KG+D . ARCHITECTS PC
 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549
 P:914.666.5900 KGDARCHITECTS.COM

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NY SED PROJECT CONTROL NO.
 66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



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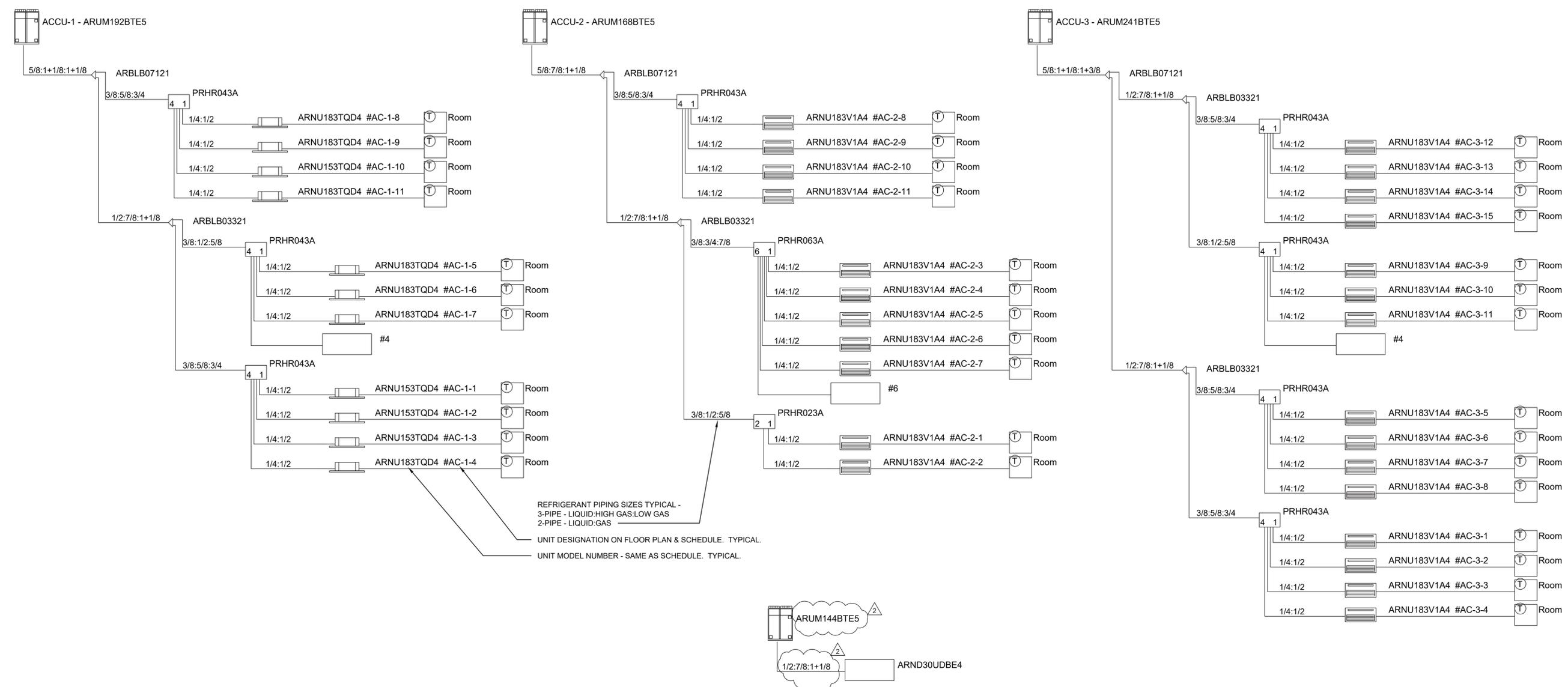
2	04/22/2022	BID ADDENDUM #2
1	03/31/2022	ISSUED FOR BID

No.	Date	Issue
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VRF RISER DIAGRAMS

Job No.	NKGD0239.00	Date	09/10/2021
Scale	AS NOTED	Drawn / Checked	NW / RS

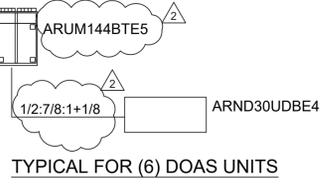
Sheet Number
M501



REFRIGERANT PIPING SIZES TYPICAL -
 3-PIPE - LIQUID-HIGH GAS-LOW GAS
 2-PIPE - LIQUID-GAS

UNIT DESIGNATION ON FLOOR PLAN & SCHEDULE. TYPICAL.

UNIT MODEL NUMBER - SAME AS SCHEDULE. TYPICAL.



NOTES:
 1. CONTRACTOR SHALL FIELD MEASURE AND DEVELOP FULL VRF SYSTEM PIPING DIAGRAMS OF EACH OF THE SYSTEMS ABOVE INCLUDING LENGTHS WITH VENDOR FOR ENGINEER REVIEW.

ADD ALTERNATE NOTES

ADD ALTERNATE #1
 THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

- DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUs #6, #7, #8
- VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

ADD ALTERNATE #2
 THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

- DOAS UNIT #1 & #2 AND ASSOCIATED ACCUs #4 & #5
- VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

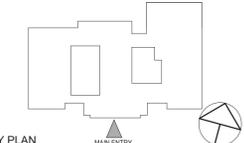
**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**
TUCKAHOE UNION FREE
SCHOOL DISTRICT
65 SIWANOY BLVD
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**CONSTRUCTION
DOCUMENTS**



KEY PLAN
MAIN ENTRY

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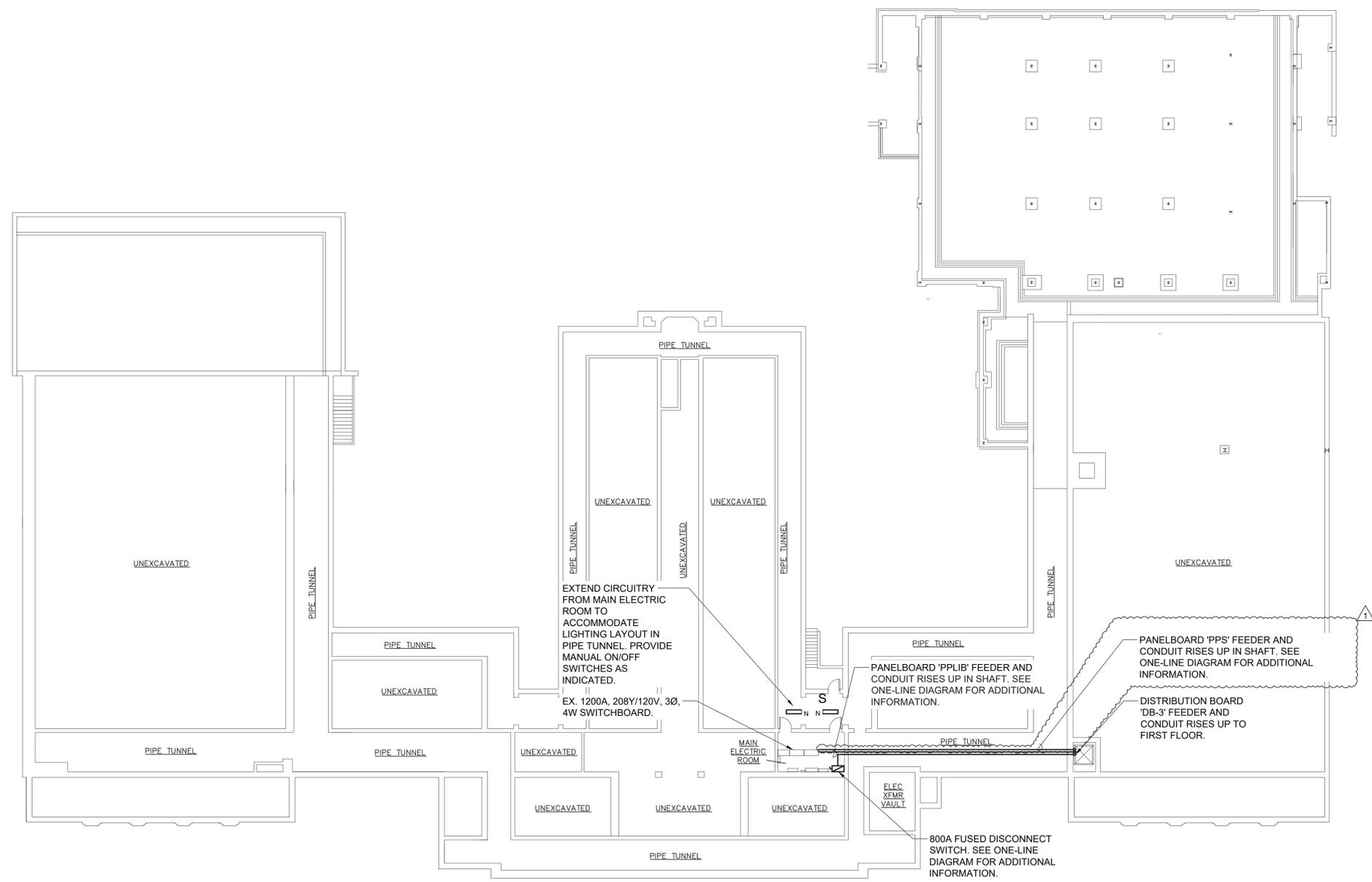
No.	Date	Issue
2	04/22/2022	BID ADDENDUM #2
1	03/31/2022	ISSUED FOR BID

Sheet Title

**ELECTRICAL
BASEMENT POWER
PLAN**

Job No.	Date
NKGD0239.00	09/10/2021
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number
E300



1 ELECTRICAL BASEMENT POWER PLAN
SCALE: 1/16" = 1'-0"

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
TUCKAHOE UNION FREE SCHOOL DISTRICT
65 SIWANOV BLVD
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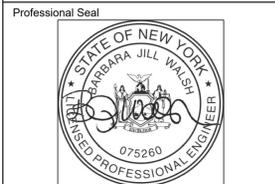
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No.	Date	Issue

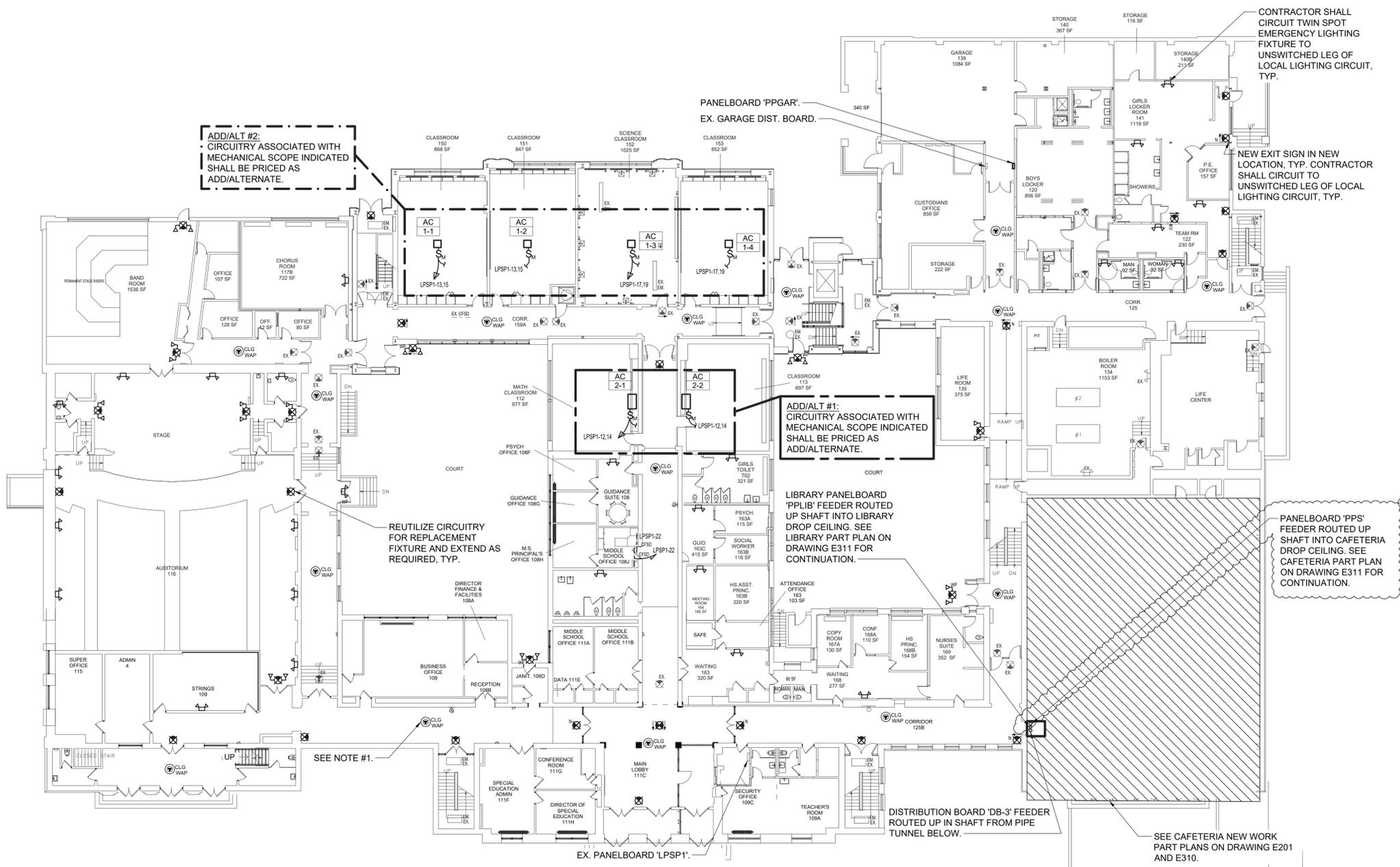
ELECTRICAL FIRST FLOOR NEW WORK PLAN

Job No.	NKGD0239.00	Date	09/10/2021
Scale	AS NOTED	Drawn / Checked	VB / ML

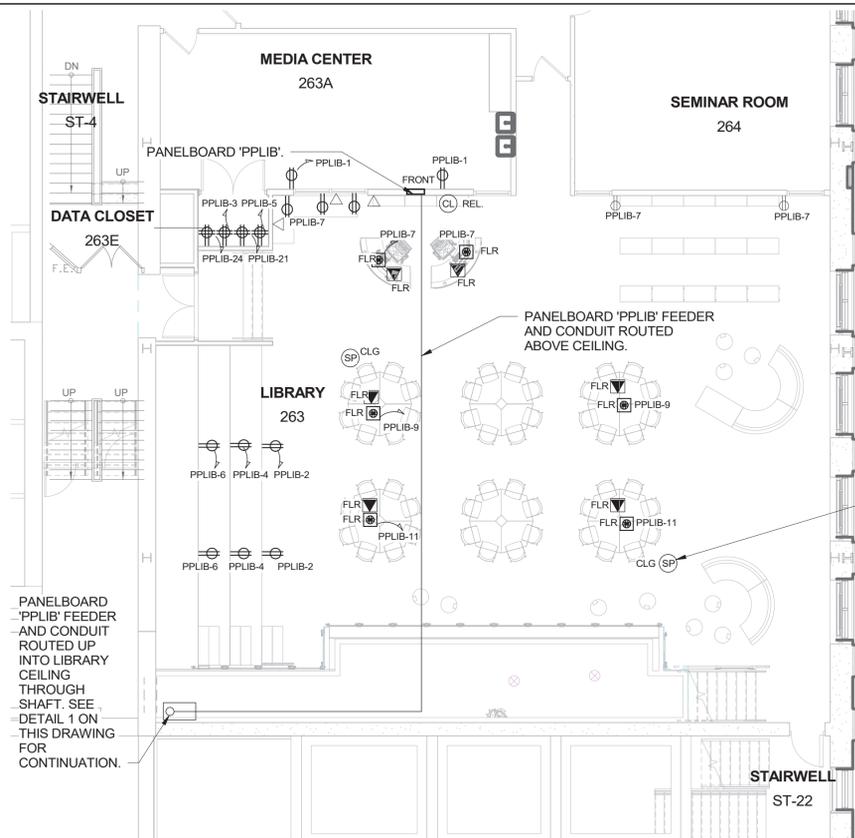
Sheet Number
E301

NOTES:

1.) ELECTRICAL CONTRACTOR SHALL WIRE (1) CAT6 CABLE TO EACH DATA POINT SHOWN FROM AN EXISTING DATA RACK IN DATA ROOM 214. SEE DRAWING E302 FOR LOCATION. CAT6 CABLE SHALL BE PLENUM RATED WITHIN PLENUM CEILINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 48 PORT CAT6 PATCH PANELS FOR INSTALLATION IN EX. DATA RACKS. TERMINATIONS AT DATA POINT AND PATCH PANEL BY ELECTRICAL CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.

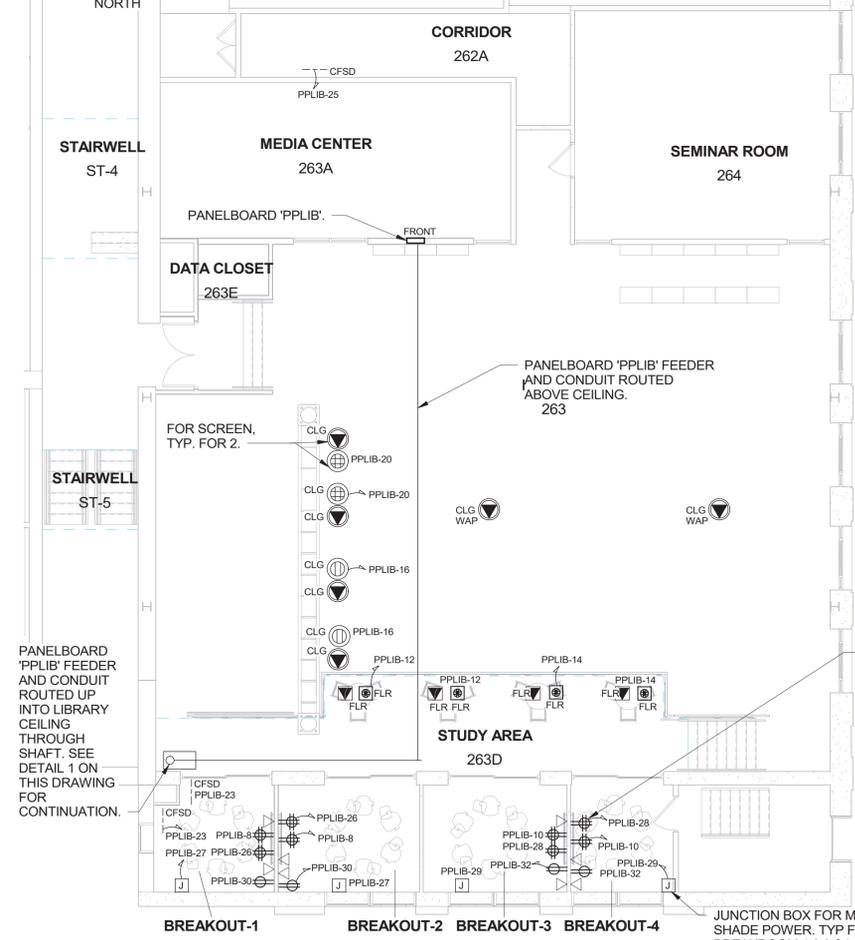


1 ELECTRICAL FIRST FLOOR NEW WORK PLAN
SCALE: 1/16" = 1'-0"



LOWER LIBRARY POWER PART PLAN

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

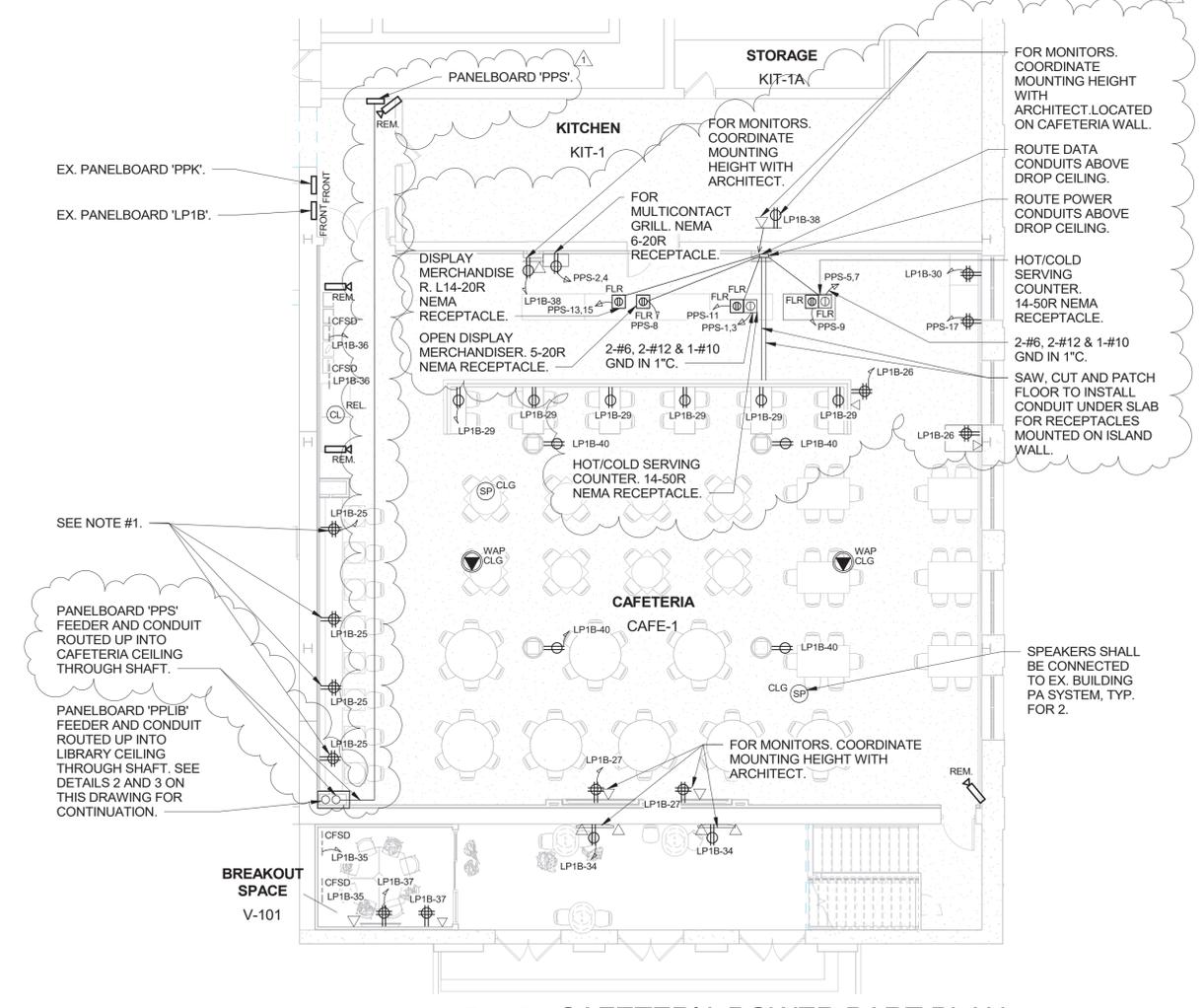


UPPER LIBRARY OFFICE POWER PART PLAN

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

NOTES:

1. RECEPTACLES AT PERIMETER BENCH SHALL BE INSTALLED UNDER BENCH. COORDINATE HEIGHT WITH ARCHITECT. CONTRACTOR SHALL PROVIDE MOCKETT PCS82D (2 POWER, 1 USB-A, 1 USB-C RECEPTACLES) MOUNTED IN BOOTH DESKTOP. COORDINATE INSTALLATION WITH ARCHITECT.
- 2.) ELECTRICAL CONTRACTOR SHALL WIRE (1) CAT6 CABLE TO EACH DATA POINT SHOWN FROM AN EXISTING DATA RACK IN DATA ROOM 214. SEE DRAWING E302 FOR LOCATION. CAT6 CABLE SHALL BE PLENUM RATED WITHIN PLENUM CEILINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 48 PORT CAT6 PATCH PANELS FOR INSTALLATION IN EX. DATA RACKS. TERMINATIONS AT DATA POINT AND PATCH PANEL BY ELECTRICAL CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.
- 3.) COORDINATE SERVERY EQUIPMENT LOCATIONS WITH ARCHITECT.
- 4.) COORDINATE RECEPTACLE NEMA CONFIGURATION WITH SERVERY EQUIPMENT PURCHASED.



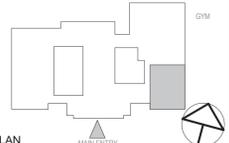
CAFETERIA POWER PART PLAN

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



NY SED PROJECT CONTROL NO.

CONSTRUCTION DOCUMENTS



KEY PLAN

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No.	Date	Issue
2	04/19/2022	BID ADDENDUM #1
1	03/31/2022	ISSUED FOR BID

ELECTRICAL CAFETERIA & LIBRARY POWER PART PLAN

Job No.	NKGD0239.00	Date	09/10/2021
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number **E310**

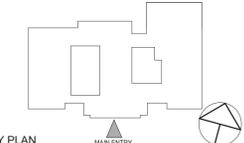
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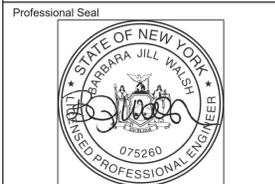
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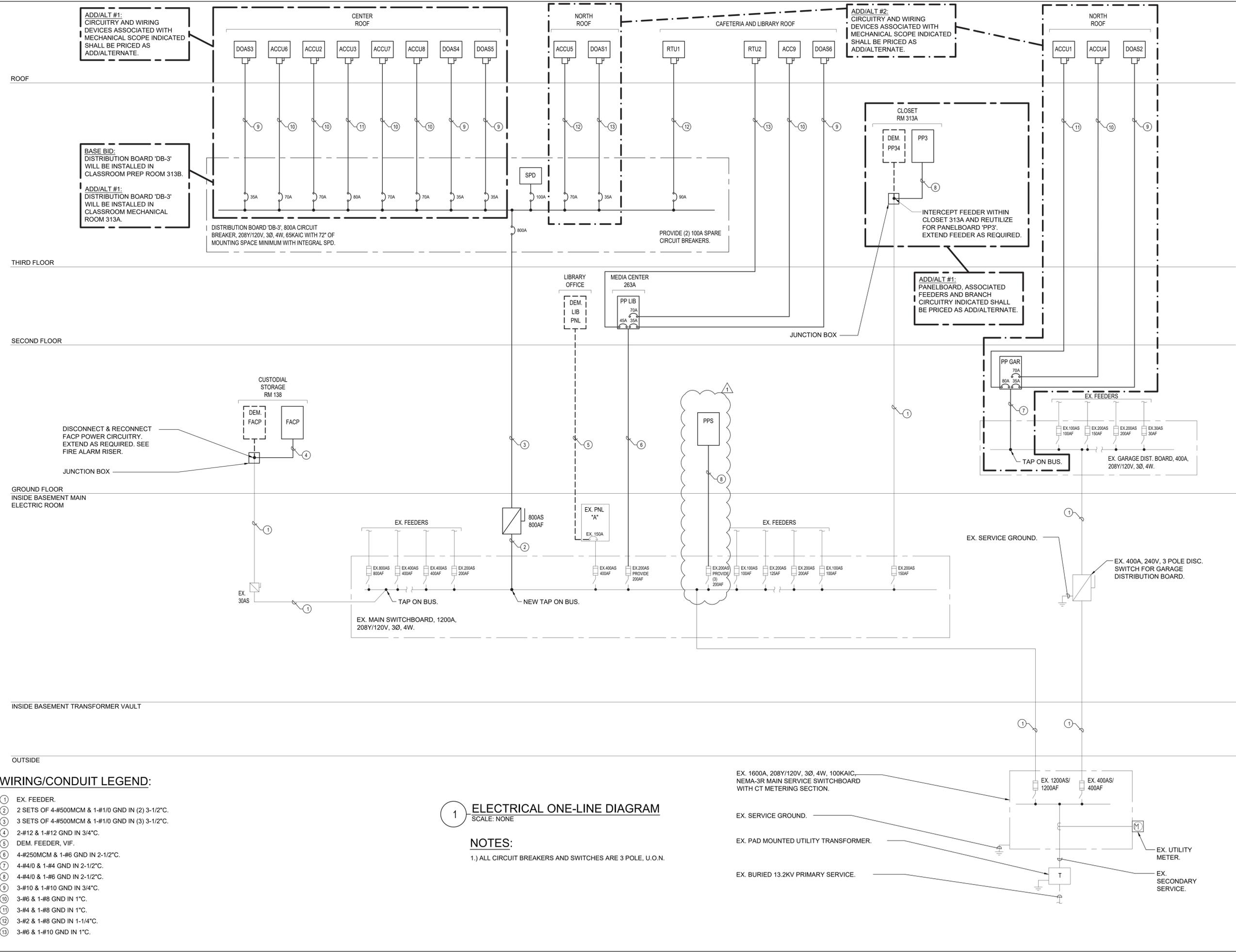


No.	Date	Issue
2	04/22/2022	BID ADDENDUM #2
1	03/31/2022	ISSUED FOR BID

ELECTRICAL ONE-LINE DIAGRAM

Job No.	NKGD0239.00	Date	09/10/2021
Scale	AS NOTED	Drawn / Checked	VB / ML

Sheet Number
E501



WIRING/CONDUIT LEGEND:

- ① EX. FEEDER.
- ② 2 SETS OF 4-#500MCM & 1-#1/0 GND IN (2) 3-1/2"Ø.
- ③ 3 SETS OF 4-#500MCM & 1-#1/0 GND IN (3) 3-1/2"Ø.
- ④ 2-#12 & 1-#12 GND IN 3/4"Ø.
- ⑤ DEM. FEEDER, V.F.
- ⑥ 4-#250MCM & 1-#6 GND IN 2-1/2"Ø.
- ⑦ 4-#4/0 & 1-#4 GND IN 2-1/2"Ø.
- ⑧ 4-#4/0 & 1-#6 GND IN 2-1/2"Ø.
- ⑨ 3-#10 & 1-#10 GND IN 3/4"Ø.
- ⑩ 3-#6 & 1-#8 GND IN 1"Ø.
- ⑪ 3-#4 & 1-#8 GND IN 1"Ø.
- ⑫ 3-#2 & 1-#8 GND IN 1-1/4"Ø.
- ⑬ 3-#6 & 1-#10 GND IN 1"Ø.

1 ELECTRICAL ONE-LINE DIAGRAM
 SCALE: NONE

NOTES:
 1.) ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.

PP GAR PANEL SCHEDULE							
MAIN RATING: 225A		MAIN C.B.: 225A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	ACCU1	80	3	3	20	DOAS2	4
5							6
7				1	20	REC - ROOF	8
9	ACCU4	70	3	-	-		10
11				-	-		12
13				-	-		14
15				-	-		16
17				-	-		18
19				-	-		20
21				-	-		22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

ADD/ALT #2: PANELBOARD, ASSOCIATED FEEDERS AND BRANCH CIRCUITRY INDICATED SHALL BE PRICED AS ADD/ALTERNATE.

EX. LPSP1 PANEL SCHEDULE							
MAIN RATING: 125A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. REC - SECURITY 109C	20	1	2	15	EX. ACC-1	2
3	EX. LTG - SECURITY 109C	20	1				4
5	EX. DOOR RELEASE VESTIBULE V-1	20	1	1	20	EX. REC - ACC-1	6
7	EX. MOTORIZED DAMPER	15	1	1	20	EX. REC - BATHROOM 109D	8
9	EX. JBOX - TEACHER'S ROOM	20	1	1	20	EX. REC - TEACHER'S ROOM	10
11	EX. REC - TEACHER'S ROOM	20	1	2	15*	AC 2-1 & AC 2-2 - 1ST FLR	12
13	AC 1-1 & AC 1-2 - 1ST FLR	15*	2				14
15				1	20#	HVAC CONTROLS	16
17	AC 1-3 & AC 1-4 - 1ST FLR	15*	2	1	20#	HVAC CONTROLS	18
19				1	20#	HVAC CONTROLS	20
21				1	20#	CFSDS	22
23	EX. SPARE	20	1	1	20	EX. SPARE	24
25	EX. SPARE	20	1	1	20	EX. SPARE	26
27	EX. SPARE	20	1	1	20	EX. SPARE	28
29	EX. SPARE	20	1	1	20	EX. SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

- * - CONTRACTOR SHALL PROVIDE 2P-15A CB.
- # - CONTRACTOR SHALL PROVIDE 1P-20A CB.
- CONTRACTOR SHALL EXTEND BRANCH CIRCUITRY TO NEW PANELBOARD LOCATION, UON.

PPLIB PANEL SCHEDULE							
MAIN RATING: 225A		MAIN C.B.: 200A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - RM 263A	20	1	1	20	REC - RM 263	2
3	REC - DATA CLOSET 263C	20	1	1	20	REC - RM 263	4
5	REC - DATA CLOSET 263C	20	1	1	20	REC - RM 263	6
7	REC - RM 263	20	1	1	20	REC - RM SV-2/SV-3	8
9	REC - RM 263	20	1	1	20	REC - RM SV-4/SV-5	10
11	REC - RM 263	20	1	1	20	REC - STUDY AREA 263D	12
13	LTG - SV-2/3/4/5	20	1	1	20	REC - STUDY AREA 263D	14
15	LTG - RM 263/263D	20	1	1	20	REC - PROJECTOR	16
17	LTG - RM 263	20	1	1	20	LTG - RM 263A	18
19	LTG - RM 263	20	1	1	20	REC - PROJECTOR	20
21	REC - DATA ROOM	20	1	1	20	REC - ROOF	22
23	CFSD	20	1	1	20	REC - DATA CLOSER 263E	24
25	CFSD	20	1	1	20	REC - BREAKROOM 1 & 2	26
27	BREAKROOM MOTORIZED SHADES	20	1	1	20	REC - BREAKROOM 3 & 4	28
29	BREAKROOM MOTORIZED SHADES	20	1	1	20	REC - BREAKROOM 1 & 2	30
31				1	20	REC - BREAKROOM 3 & 4	32
33				-	-		34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

EX. 'LP1B' PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. LOAD	20	1	1	20	EX. LOAD	2
3	EX. LOAD	20	1	1	20	EX. LOAD	4
5	EX. LOAD	20	1	1	20	EX. LOAD	6
7	EX. LOAD	20	1	1	20	EX. LOAD	8
9	EX. LOAD	20	1	1	20	EX. LOAD	10
11	EX. LOAD	20	1	1	20	EX. LOAD	12
13	EX. LOAD	20	1	1	20	EX. LOAD	14
15	EX. LOAD	20	1	1	20	EX. LOAD	16
17	EX. LOAD	20	1	1	20	EX. LOAD	18
19	EX. LOAD	20	1	1	20	EX. LOAD	20
21	EX. LOAD	20	1	1	20	EX. LOAD	22
23	EX. LOAD	20	1	1	20	EX. LOAD	24
25	REC - CAFETERIA	20*	1	1	20*	REC - CAFETERIA CASH REGISTER	26
27	REC - CAFETERIA MONITORS	20*	1	1	20*	REC - CAFETERIA MONITORS	28
29	REC - CAFETERIA	20*	1	1	20*	REC - CAFETERIA	30
31	LTG - CAFETERIA	20*	1	1	20*	LTG - CAFETERIA	32
33	LTG - CAFETERIA	20*	1	1	20*	REC - TV MONITOR	34
35	CFSD	20#	1	1	20#	CFSD	36
37	BREAKOUT V-101	20#	1	1	20#	REC - CAF TV	38
39	SPARE	20	1	1	20#	REC - CAF	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.

NOTES:

- * - CONTRACTOR SHALL PROVIDE 1P-20A CB.
- # - CONTRACTOR SHALL REUTILIZE 1P-20A CB FOR LOAD INDICATED ON DRAWINGS.

PP3 PANEL SCHEDULE							
MAIN RATING: 225A		MAIN C.B.: 150A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	2ND FLR - AC 3-1/AC 3-2/AC 3-3/	15	2	2	15	3RD FLR - AC 1-8/AC 1-9/AC 1-10/	2
3	AC 3-4					AC 1-11	4
5	2ND FLR - AC 3-5/AC 3-6/AC 3-7/	15	2	2	15	3RD FLR - AC 2-8/AC 2-9/AC 2-10/	6
7	AC 3-8					AC 2-11	8
9	2ND FLR - AC 1-5/AC 1-6/ AC 1-7	15	2	2	15	3RD FLR - AC 3-9/AC 3-10/ AC 3-11	10
11	AC 2-3						12
13	2ND FLR - AC 2-4/AC 2-5/AC 2-6	15	2	2	15	3RD FLR - AC 3-12/AC 3-13/AC 3-14	14
15	AC 2-7					AC 3-15	16
17	HVAC CONTROLS	20	1	1	20	REC - ROOF	18
19	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD	20
21	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD	22
23	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD	24
25	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD	26
27				2	25#	EX. LOAD	28
29	EX. LOAD	30@	3				30
31				1	20*	EX. LOAD	32
33	EX. LOAD	25#	2	2	20#	EX. LOAD	34
35							36
37	EX. LOAD	20*	1	2	15#	EX. LOAD	38
39	EX. LOAD	20*	1				40
41	EX. LOAD	20*	1	1	15*	EX. LOAD	42
43	EX. LOAD	15*	1	1	15*	EX. LOAD	44
45	EX. LOAD	15*	1	1	15*	EX. LOAD	46
47	EX. LOAD	15*	1	1	15*	EX. LOAD	48
49	EX. LOAD	15*	1	-	-	-	50
51				-	-	-	52
53	SPARE	20	1	1	20	SPARE	54
55	SPARE	20	1	1	20	SPARE	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.

NOTES:

- * - CONTRACTOR SHALL PROVIDE 30' OF 2-#12 & 1-#12 GND IN 3/4" TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.
- # - CONTRACTOR SHALL PROVIDE 30' OF 2-#10 & 1-#10 GND IN 3/4" TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.
- @ - CONTRACTOR SHALL PROVIDE 30' OF 3-#10 & 1-#10 GND IN 3/4" TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.

ADD/ALT #1: PANELBOARD, ASSOCIATED FEEDERS AND BRANCH CIRCUITRY INDICATED SHALL BE PRICED AS ADD/ALTERNATE.

PPS PANEL SCHEDULE							
MAIN RATING: 200A		MAIN C.B.: 200A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	SERVING COUNTER HOT/COLD	50	2	2	20	MULTI CONTACT GRILL	2
3							4
5	SERVING COUNTER HOT/COLD	50	2	1	20	REFRIGERATOR	6
7				1	20	OPEN DISPLAY MERCHANDISER	8
9	SERVING COUNTER HOT/COLD	15	1	-	-	-	10
11	SERVING COUNTER HOT/COLD	15	1	-	-	-	12
13	DISPLAY MERCHANDISER	20	2	-	-	-	14
15				-	-	-	16
17	REFRIGERATOR	20	1	-	-	-	18
19				-	-	-	20
21				-	-	-	22
23				-	-	-	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

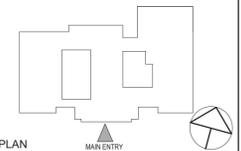
NOTES:

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
TUCKAHOE UNION FREE SCHOOL DISTRICT
65 SIWANOV BLVD
EASTCHESTER, N. Y. 10709



NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



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No.	Date	Issue
2	04/22/2022	BID ADDENDUM #2
1	03/31/2022	ISSUED FOR BID

Sheet Title

ELECTRICAL SCHEDULES

Job No.	Date
NKGD0239.00	09/10/2021
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E602