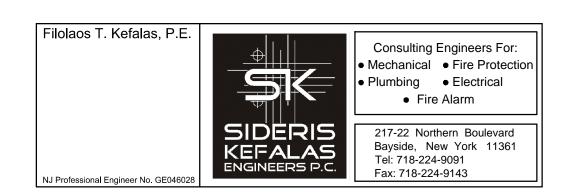
EXISTING PANEL TO BE REMOVED. CUT ALL WIRING AND CONDUIT BACK TO POINT OF ORIGIN. VERIFY ALL REQUIREMENTS IN THE FIELD. ×× EXISTING PANEL TO BE REMOVED. CUT ALL WIRING AND CONDUIT BACK TO POINT OF ORIGIN. VERIFY EXISTING CABINET HEATER TO BE EXISTING PANEL TO BE REMOVED. ALL REQUIREMENTS IN THE FIELD. — REMOVED. CUT ALL WIRING AND CUT ALL WIRING AND CONDUIT BACK CONDUIT BACK TO POINT OF ORIGIN. TO POINT OF ORIGIN. VERIFY ALL VERIFY ALL REQUIREMENTS IN THE REQUIREMENTS IN THE FIELD. EXISTING PANEL TO BE REMOVED. CUT ALL WIRING AND CONDUIT BACK TO POINT OF ORIGIN. VERIFY ALL REQUIREMENTS IN THE FIELD. EXISTING CABINET HEATER TO BE REMOVED. CUT ALL WIRING AND CONDUIT BACK TO POINT OF ORIGIN. VERIFY ALL REQUIREMENTS IN THE FIELD. EXISTING DOOR ANNUNICATOR TO BE REMOVED—— EXISTING CABINET HEATER TO BE REMOVED. CUT ALL WIRING AND EXISTING TIME RECORDER CONDUIT BACK TO POINT OF ORIGIN. TO BE REMOVED—— VERIFY ALL REQUIREMENTS IN THE EXISTING IT ROOM TO REMAIN. MAINTAIN CIRCUIT CONTINUITY

FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

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





These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

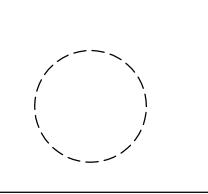
These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB
NJ License No. AI 12541

FRANCISCO J. MELENDEZ, SR., AIA
NJ License No. AI 12118

MARK E. BESS, AIA
NJ License No. AI 16160

LAURENCE K. UHER, AIA, LEED, AP
NJ License No. AI 14394





JECT:

UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS
WEST HALL ADDITION
1776 Raritan Road, Scotch Plains, New Jersey 07076

SHEET CONTENTS:

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

REVISIONS	DATE 07.12.13
D DATE DESCRIPTION BY	CHKD SCALE AS SHOWN
	DRWN BY WH
	CHKD BY CMS/FTK
	JOB NO 2131056/13-0529
	SHEET: 1 OF: 12
	DRWG NO
	E.010
< [

DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR TO DISCONNECT ALL EXISTING LIGHT FIXTURES TO BE REMOVED OR RELOCATED, AND CUT ALL WIRING AND CONDUIT BACK TO NEAREST LOCATION. SEE

2. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES, JUNCTION BOXES, CONTROL PANELS, CONDUIT AND WIRING FROM WALLS TO BE DEMOLISHED. ALL WIRING TO BE CUT BACK TO

3. ALL ELECTRICAL DEVICES INDICATED TO BE REMOVED SHALL HAVE WIRING AND CONDUIT REMOVED

4. ALL WIRING AND CONDUIT IN WALLS TO BE DEMOLISHED THAT MUST REMAIN TO MAINTAIN CIRCUIT CONTINUITY SHALL BE REROUTED AROUND WALL. VERIFY ALL REQUIREMENTS IN THE FIELD.

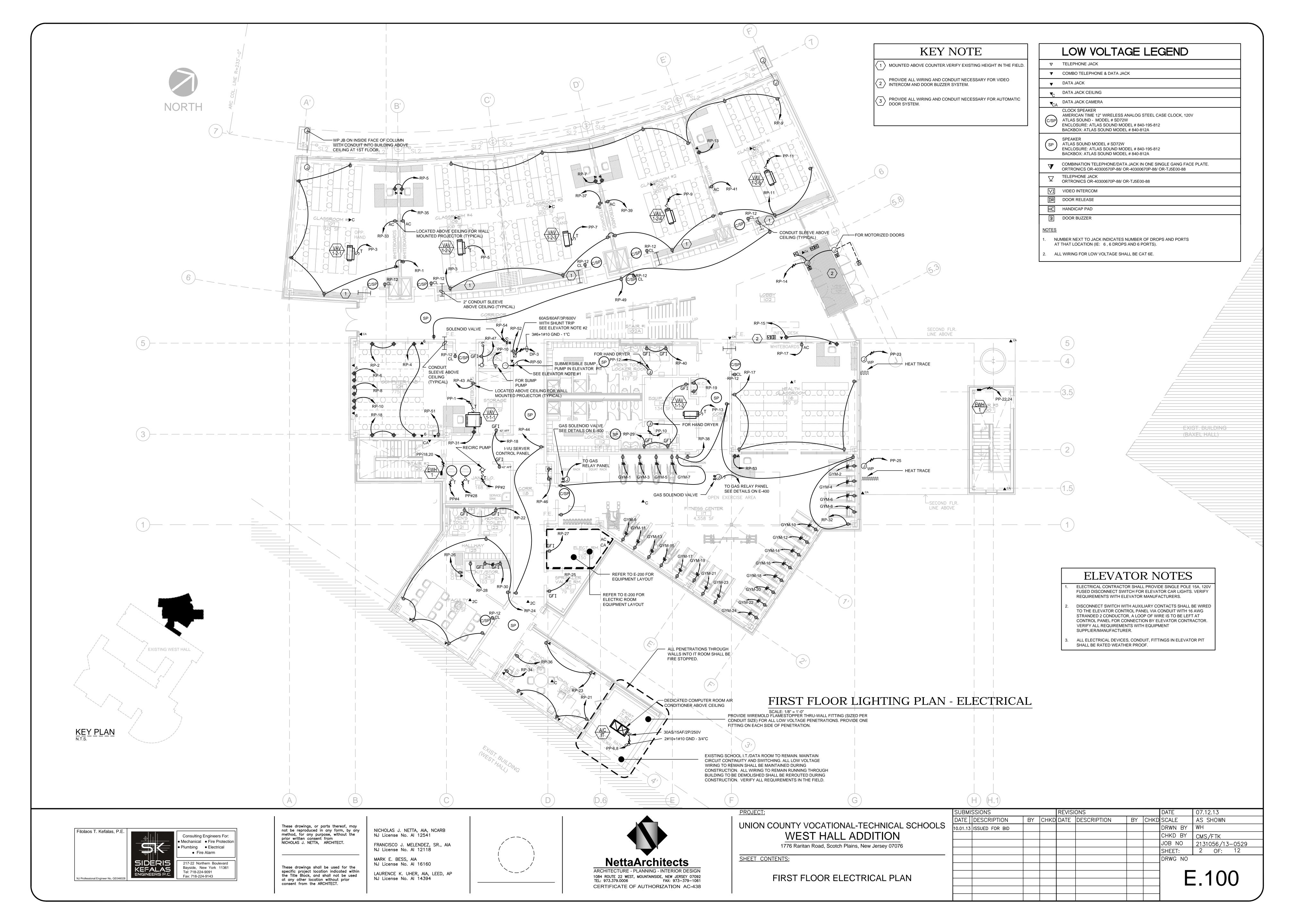
5. FEEDERS FOR PANELS TO BE REMOVED SHALL BE REMOVED BACK TO THE ELECTRIC SERVICE ROOM AND REMOVED FROM DISTRIBUTION BOARD CIRCUIT BREAKER OR SWITCH. CIRCUIT BREAKER OR

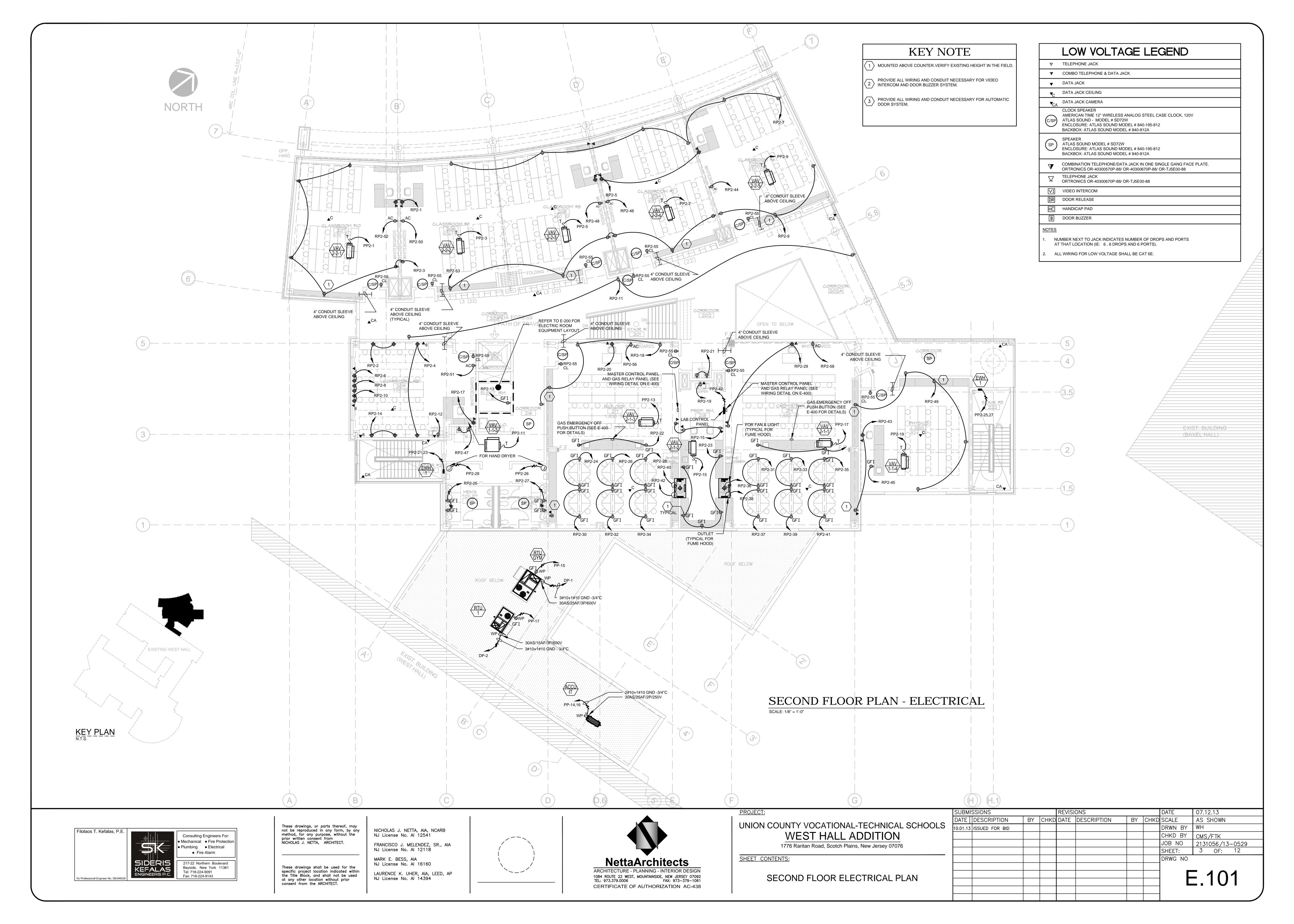
PANEL OF ORIGIN. SEE ARCHITECTURAL DEMOLITION PLAN FOR WALLS TO BE REMOVED.

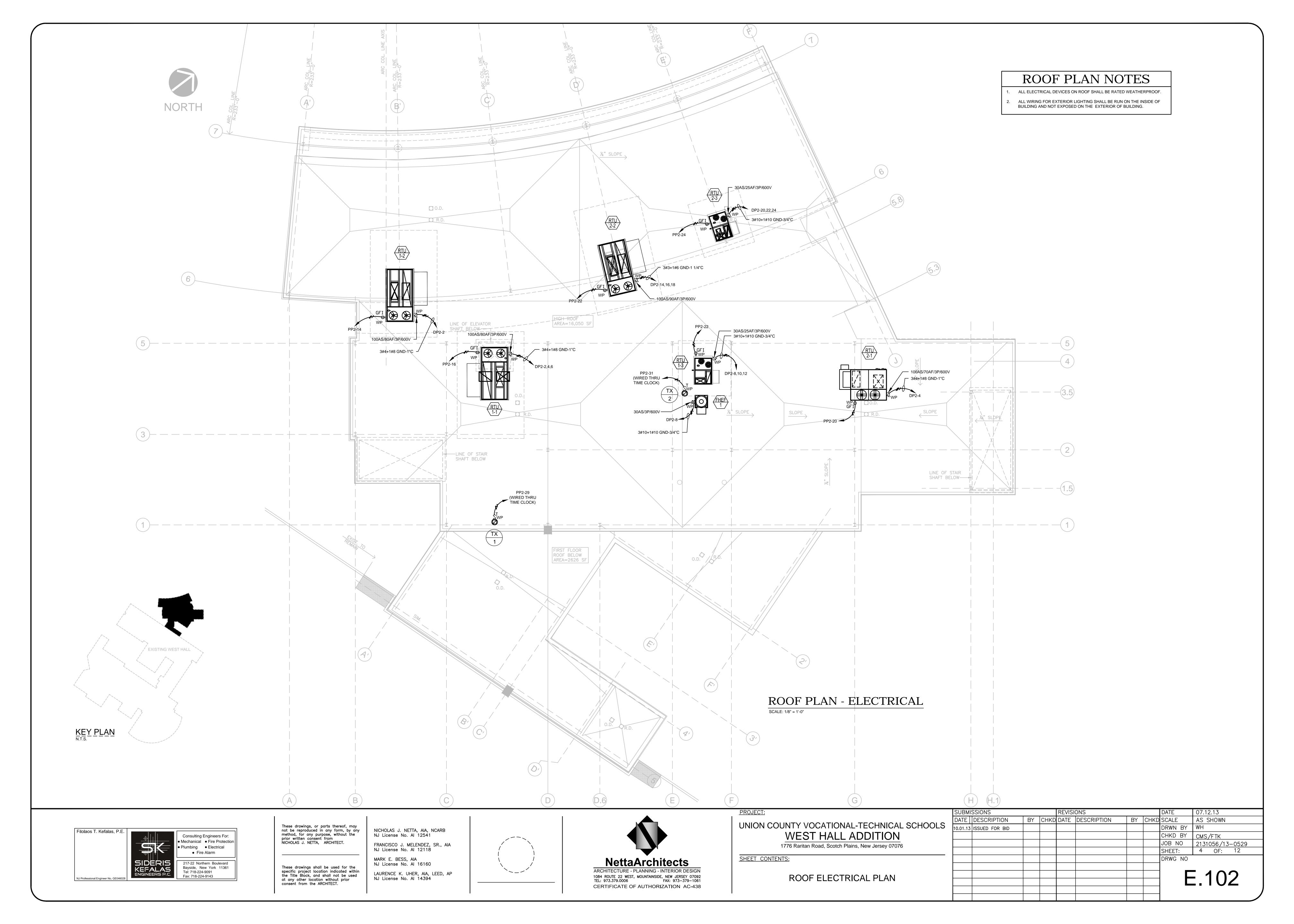
BACK TO PANEL OF ORIGIN. VERIFY ALL REQUIREMENTS IN THE FIELD.

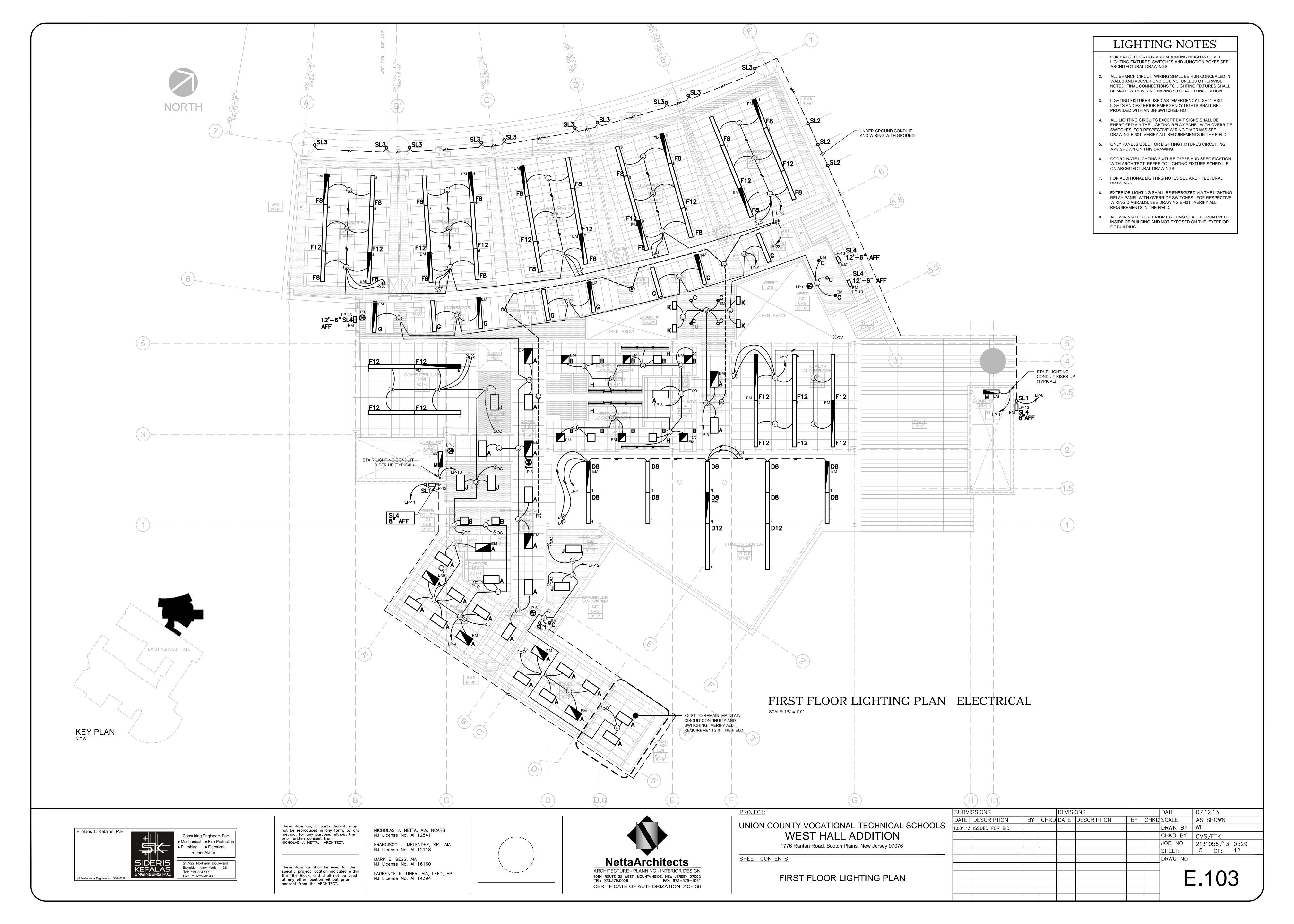
SWITCH TO BE LABELED SPARE. VERIFY ALL REQUIREMENTS IN THE FIELD.

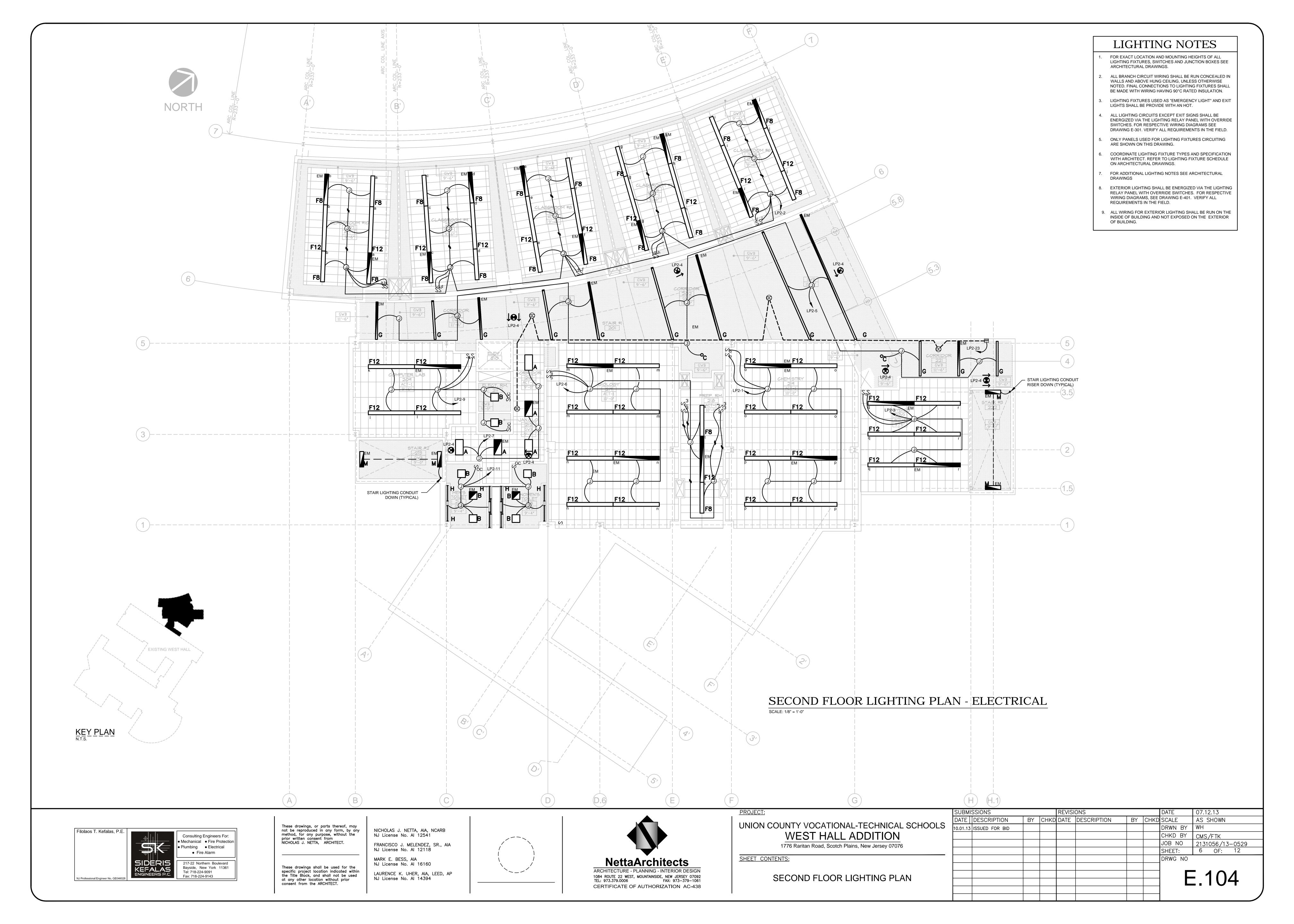
ARCHITECTURAL PLANS FOR EXACT LOCATION AND QUANTITIES. VERIFY ALL REQUIREMENTS IN THE

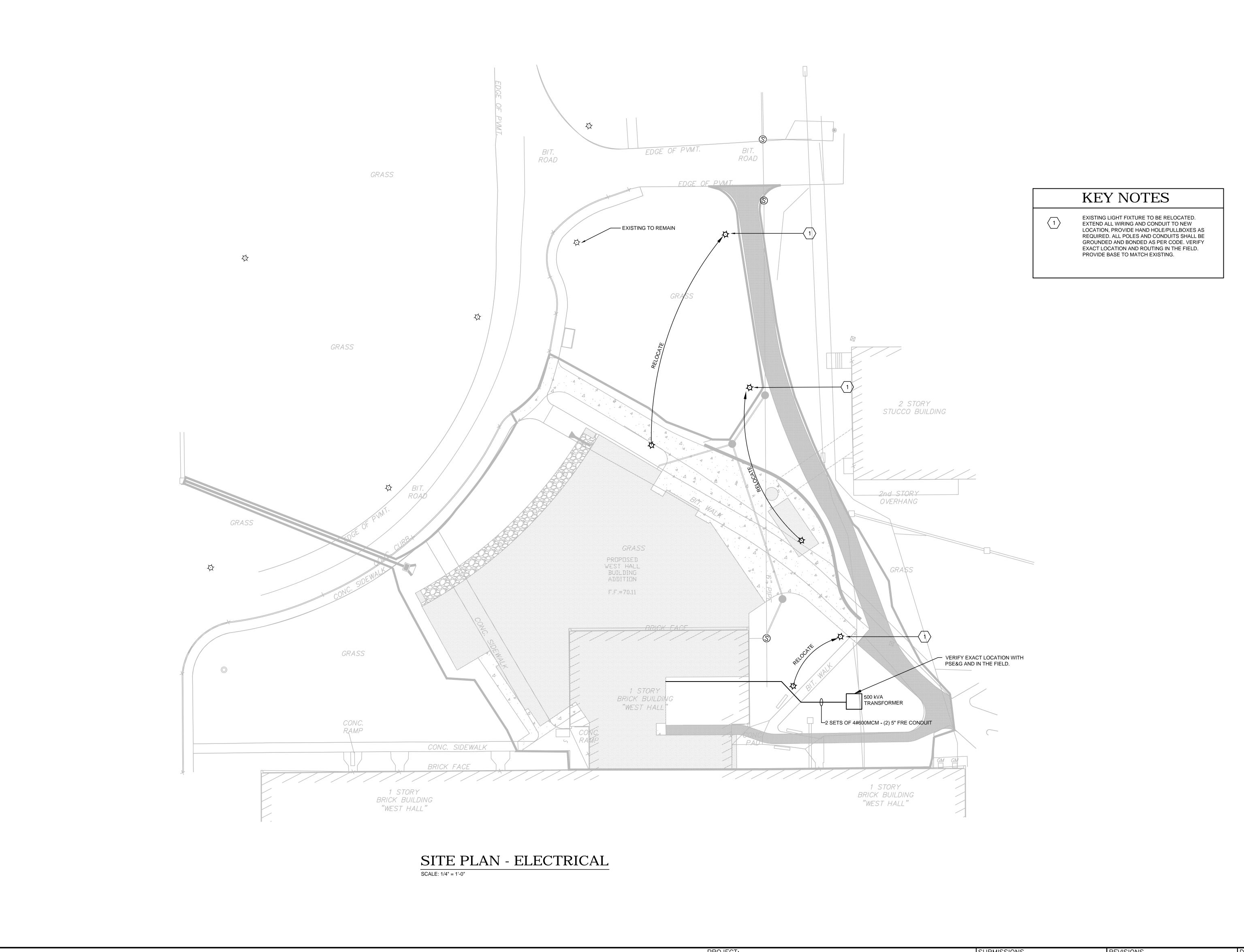


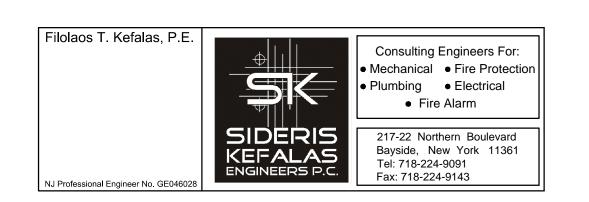












These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

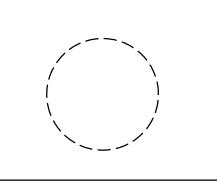
These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB
NJ License No. AI 12541

FRANCISCO J. MELENDEZ, SR., AIA
NJ License No. AI 12118

MARK E. BESS, AIA
NJ License No. AI 16160

LAURENCE K. UHER, AIA, LEED, AP
NJ License No. AI 14394





UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS

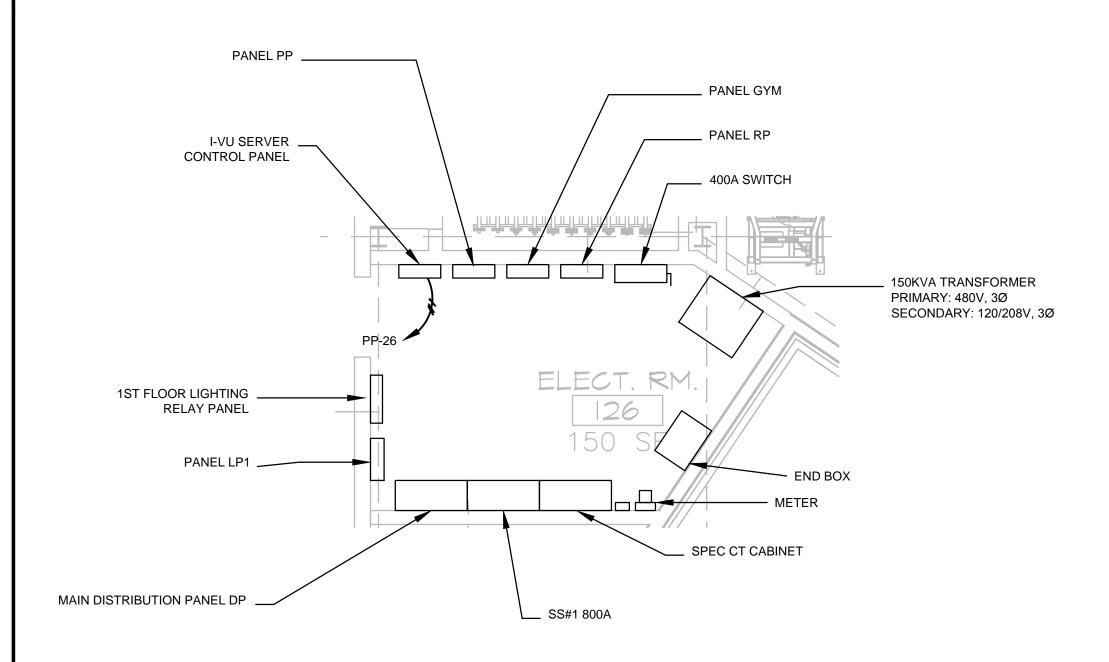
WEST HALL ADDITION

1776 Raritan Road, Scotch Plains, New Jersey 07076

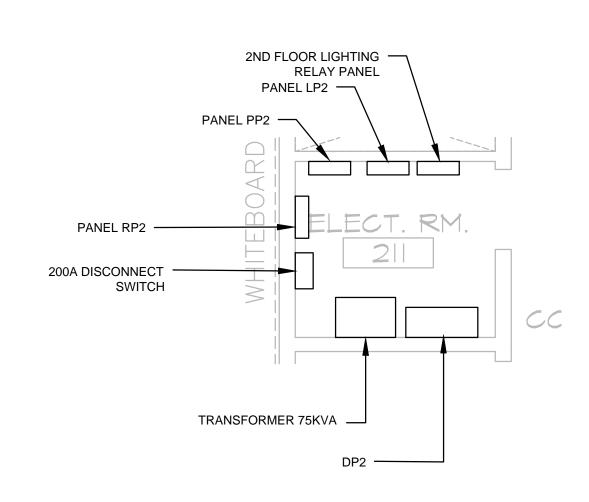
SHEET CONTENTS:

SITE LIGHTING PLAN

SUBMI	ISSIONS			REVISI	ONS			DATE	07.12.13
DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD	SCALE	AS SHOWN
10.01.13	ISSUED FOR BID						·	DRWN BY	WH
								CHKD BY	CMS/FTK
								JOB NO	2131056/13-0529
								SHEET:	7 OF: 12
								DRWG NO	
									_
									E.105



1ST FLOOR ELECTRIC ROOM - ELECTRICAL



2ND FLOOR ELECTRIC ROOM - ELECTRICAL SCALE: 1/4" = 1'-0"

ELECTRIC SWITCHBOARD NOTES

- SERVICE 277/480 V A.C. 3 PHASE 4 WIRE 60 Hz.
- FABRICATE SWITCHBOARD STRUCTURE FROM UNIVERSAL STEEL CHANNEL FRAME WITH CODE GAUGE SHEET STEEL COVERS.
- BOXES & TRIMS CODE GAUGE SHEET STEEL.

RISER NOTES

ELECTRIC SERVICE PENDING PSE&G

DISCONNECT SWITCH AND DEVICES FOR

FIRE ALARM SYSTEM TO BE PAINTED FIRE DEPARTMENT RED AND LABELED FOR

APPROVAL. VERIFY ALL REQUIREMENTS

ALL CONDUIT, JUNCTION BOXES,

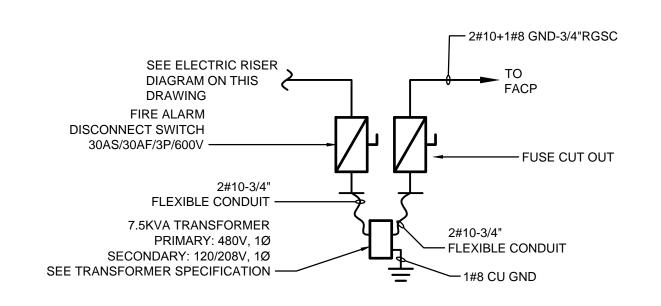
FIRE DEPARTMENT USE.

WITH UTILITY.

- SERVICE OR DISTRIBUTION SWITCHES 800A & ABOVE BOLTED PRESSURE CONTACT TYPE AS MANUFACTURED BY BOLTSWITCH COMPANY OR APPROVED EQUAL. BELOW 800 A PRESSURE CONTACT TYPE VACU-BREAK AS MANUFACTURED BY ITE.
- NO DOOR OVER VACU-BREAK PANEL. EACH SWITCH HAS ITS OWN INDIVIDUAL INTERLOCKED
- ALL FUSES SHALL BE COORDINATED FOR PROPER SHORT CIRCUIT & OVERLOAD
- FUSES ARE GOULD/SHAWMUT TYPE OR APPROVED EQUAL.
- BUSWORK COPPER RATED AT 1000 AMPS PER SQ. INCH DENSITY.
- LUGS T & B (OR EQUAL) MECHANICAL TYPE SUITABLE FOR COPPER CABLES. 10. ALL LIVE PARTS MIN. 12" OFF THE FINISHED FLOOR.
- ALL SERVICE & DISTRIBUTION EQUIPMENT FRONT ACCESSIBLE. NO BUS CONNECTION MORE THAN 30" FROM FRONT OF EQUIPMENT WITH COVERS REMOVED.
- 2. C.T. TRIM SHALL HAVE A SPLIT DOOR & 3 POINT CATCH WITH VAULT TYPE HANDLE WITH PROVISION FOR A SEAL.
- FINISH ONE (1) PRIME COAT OF GREY PRIMER & ONE (1) FINISH COAT OF ASA-49 GREY

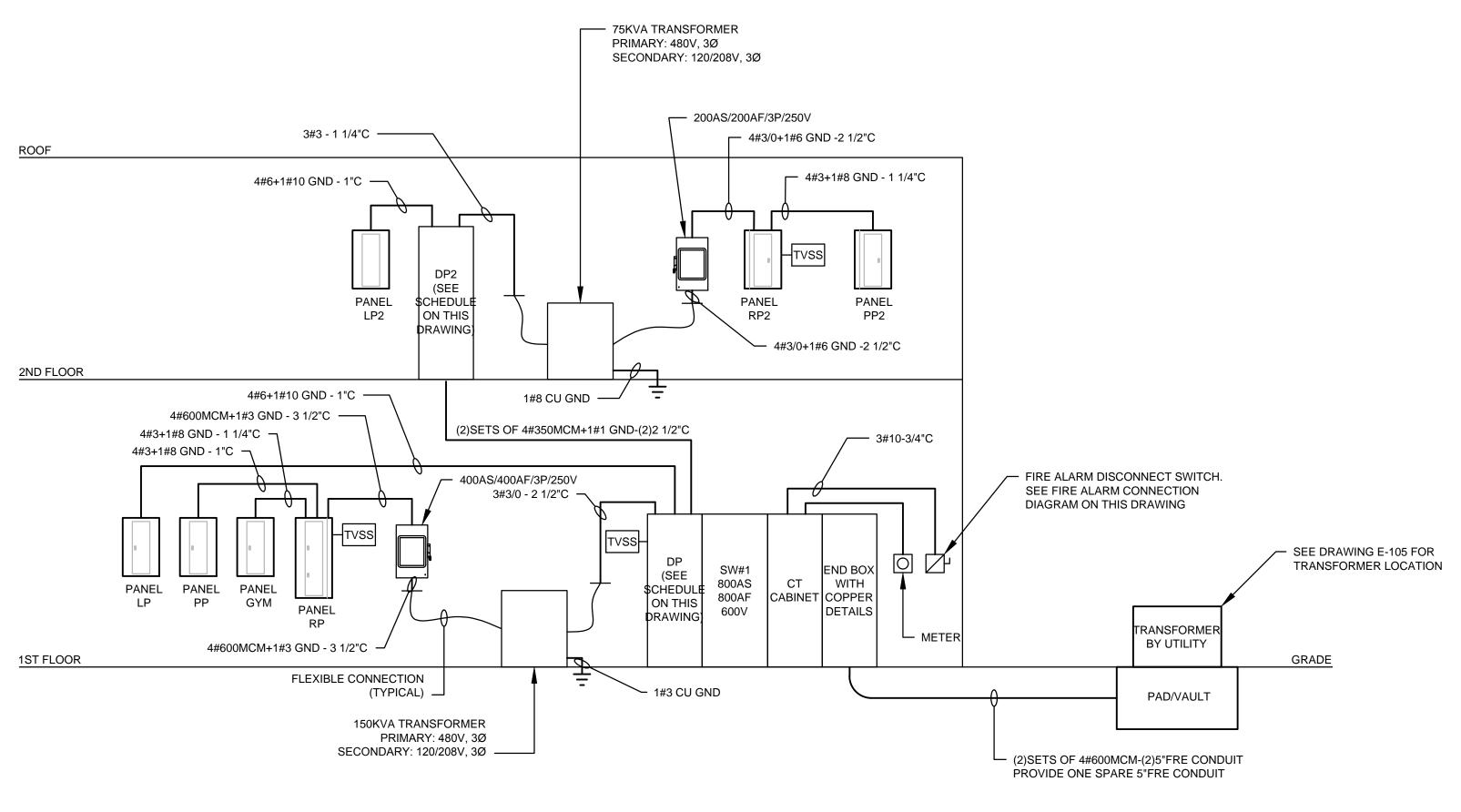
N	AAIN I	DIST	'RIB	UTION F	PANEL "DP"
		ECTRIC ROO RFACE	M		7/480 VOLTS, 3 PHASE, 4 WIRES 0A, MLO
NO.	SERVES	KW,HP, OR KVA	AMPS	SW/FUSE/POLE	REMARKS: ALL CONDUCTORS TO BE TYPE THHN
1	RTU-GYM	18.3KW	22	30/25/3P	3#10+1#10 GND - 3/4"C
2	RTU-1	10.8KW	13	30/15/3P	3#10+1#10 GND - 3/4"C
3	ELEVATOR	25HP	34	60/60/3P	3#6+1#10 GND - 1"C
4	PANEL LP	12KW	14.4	60/60/3P	4#6+1#10 GND - 1"C
5	PANEL RP VIA 150KVA XFMR	84.2KW	233.9	200/200/3P	3#3/0-2 1/2"C
6	PANEL DP2	317KW	381.4	600/600/3P	(2)SETS OF 4#350MCM+1#1 GND-(2)2 1/2"C
7	SPARE			200//3P	
8	SPARE	1	1	100//3P	
9	SPARE			100//3P	

DIST	'RIB	UTION I	PANEL "DP"		MAIN I	DIST	RIB	UTION I	PANEL "DP2
ECTRIC ROC	М		7/480 VOLTS, 3 PHASE, 4 WIRES 10A, MLO			LECTRIC ROC	DM		77/480 VOLTS, 3 PHASE, 4 WIRES 10A, MLO
KW,HP, OR KVA	AMPS	SW/FUSE/POLE	REMARKS: ALL CONDUCTORS TO BE TYPE THHN	NC	SERVES	KW,HP, OR KVA	AMPS	SW/FUSE/POLE	REMARKS: ALL CONDUCTORS TO BE TYPE THHN
18.3KW	22	30/25/3P	3#10+1#10 GND - 3/4"C	1	RTU-1-1	64.8KW	78	100/90/3P	3#4+1#8 GND-1"C
10.8KW	13	30/15/3P	3#10+1#10 GND - 3/4"C	2	RTU-1-2	59.8KW	72	100/80/3P	3#4+1#8 GND-1"C
25HP	34	60/60/3P	3#6+1#10 GND - 1"C	3	RTU-1-3	17.4KW	21	30/25/3P	3#10+1#10 GND-3/4"C
12KW	14.4	60/60/3P	4#6+1#10 GND - 1"C	4	RTU-2-1	44.8KW	54	100/70/3P	3#4+1#8 GND-1"C
84.2KW	233.9	200/200/3P	3#3/0-2 1/2"C	5	RTU-2-2	65.6KW	79	100/90/3P	3#3+1#6 GND-1 1/4"C
317KW	381.4	600/600/3P	(2)SETS OF 4#350MCM+1#1 GND-(2)2 1/2"C	6	RTU-2-3	17.4KW	21	30/25/3P	3#10+1#10 GND-3/4"C
		200//3P		7	FHEF	6.3KW	7.6	30/15/3P	3#10+1#10 GND - 1"C
		100//3P		8	PANEL LP2	9.3KW	13.5	60/60/3P	4#6+1#10 GND -1"C
		100//3P		9	PANEL RP2 VIA 75KVA XFMR	49.8KW	138.3	100/100/3P	4#3/0+1#6 GND -3"C
				10	SPARE			100//3P	
				11	SPARE			100//3P	
				12	SPARE			100//3P	
								·	



FIRE ALARM CONNECTION DIAGRAM

SCHEMATIC ONLY



ELECTRICAL RISER DIAGRAM SCHEMATIC ONLY

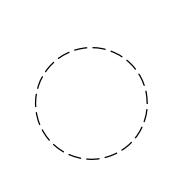
	CODE LOAD AN	ALYSIS	
LOAD DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	KVA DEMAND
LIGHTING - EXTERIOR	400	125%	500
LIGHTING - INTERIOR	27500	125%	34375
RECEPTACLES	10000	FIRST 10 KW 100%	10000
	30900	REMAINDER @ 50%	15450
KITCHEN EQUIPMENT	0	65%	0
WATER HEATING	2000	125%	2500
HVAC EQUIPMENT	305200	100%	305200
		LGT MOTOR @25%	750
MISC	74900	100%	74900
TOTALS	450900		441815
CALCULATED SERVICE	DEMAND AMPERES	533	2 amps

Filolaos T. Kefalas, P.E.		Consulting Engineers For: • Mechanical • Fire Protection • Plumbing • Electrical • Fire Alarm
NJ Professional Engineer No. GE046028	SIDERIS KEFALAS ENGINEERS P.C.	217-22 Northern Boulevard Bayside, New York 11361 Tel: 718-224-9091 Fax: 718-224-9143

These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB NJ License No. Al 12541 FRANCISCO J. MELENDEZ, SR., AIA NJ License No. Al 12118 MARK E. BESS, AIA NJ License No. Al 16160 LAURENCE K. UHER, AIA, LEED, AP NJ License No. Al 14394





CERTIFICATE OF AUTHORIZATION AC-438

PROJECT:
UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS
WEST HALL ADDITION
1776 Raritan Road, Scotch Plains, New Jersey 07076

SHEET	CONTENTS:

ONTENTS:	
ELECTRIC RISER DIAGRAM	

SUBMI	SSIONS			REVISI	ONS			DATE	07.12.13
DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD	SCALE	AS SHOWN
10.01.13	ISSUED FOR BID							DRWN BY	WH
								CHKD BY	CMS/FTK
								JOB NO	2131056/13-0529
								SHEET:	7 OF: 12
								DRWG NO	
									: 200
									.200

RISER NOTES

CONTRACTOR SHALL PROVIDE AND INSTALL CABLE FROM DEVICE TO HEAD END LOCATION. VERIFY EXACT ROUTING AND ALL REQUIREMENTS IN THE FIELD.

SYMBOL LEGEND

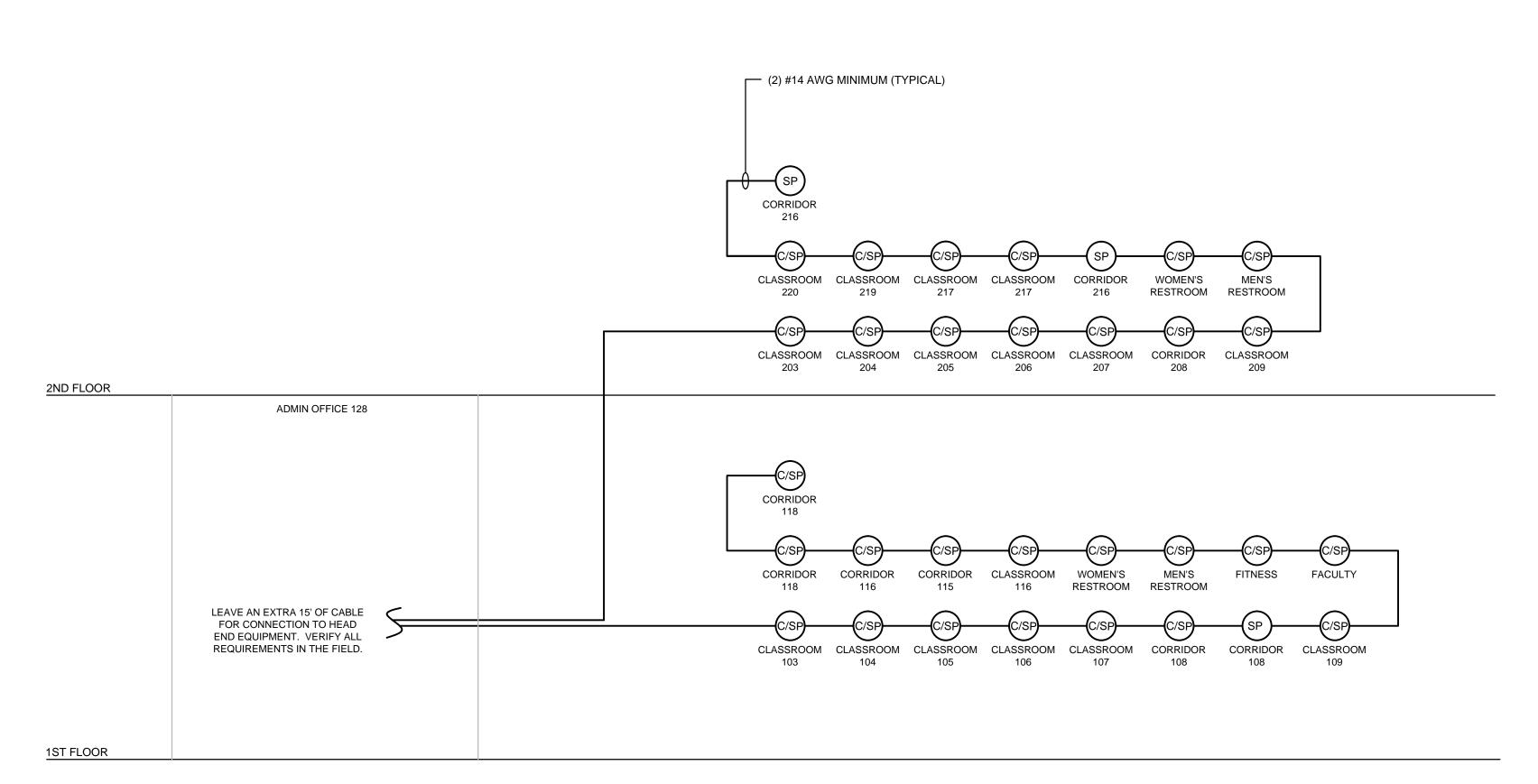
INTERCOM SYSTEM CLOCK SPEAKER AMERICAN TIME 12" WIRELESS ANALOG STEEL CASE CLOCK, 120V SPEAKER: ATLAS SOUND SD72W ENCLOSURE: ATLAS SOUND 840-195-812 BACKBOX: 840-812A

CAMERA CAMERA

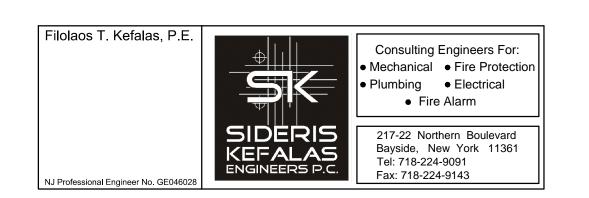
NEAR STAIR '3' NEAR STAIR '3' STAIR STAIR CORRIDOR 208 CORRIDOR 208 CORRIDOR 202A **ADMIN OFFICE 128** STAIR '3' NEAR STAIR '3' ELEC RM STAIR 120 CORRIDOR 108 LEAVE AN EXTRA 15' OF CABLE FOR CONNECTION TO HEAD END EQUIPMENT. VERIFY ALL CORRIDOR REQUIREMENTS IN THE FIELD.

IP CAMERA (TYPICAL)

VIDEO RISER DIAGRAM SCHEMATIC ONLY



CLOCK/SPEAKERS RISER DIAGRAM SCHEMATIC ONLY



1ST FLOOR

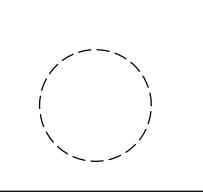
These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB NJ License No. AI 12541 FRANCISCO J. MELENDEZ, SR., AIA NJ License No. AI 12118 MARK E. BESS, AIA NJ License No. AI 16160 LAURENCE K. UHER, AIA, LEED, AP NJ License No. AI 14394

VESTIBLE

L CAT6E (TYPICAL) 101



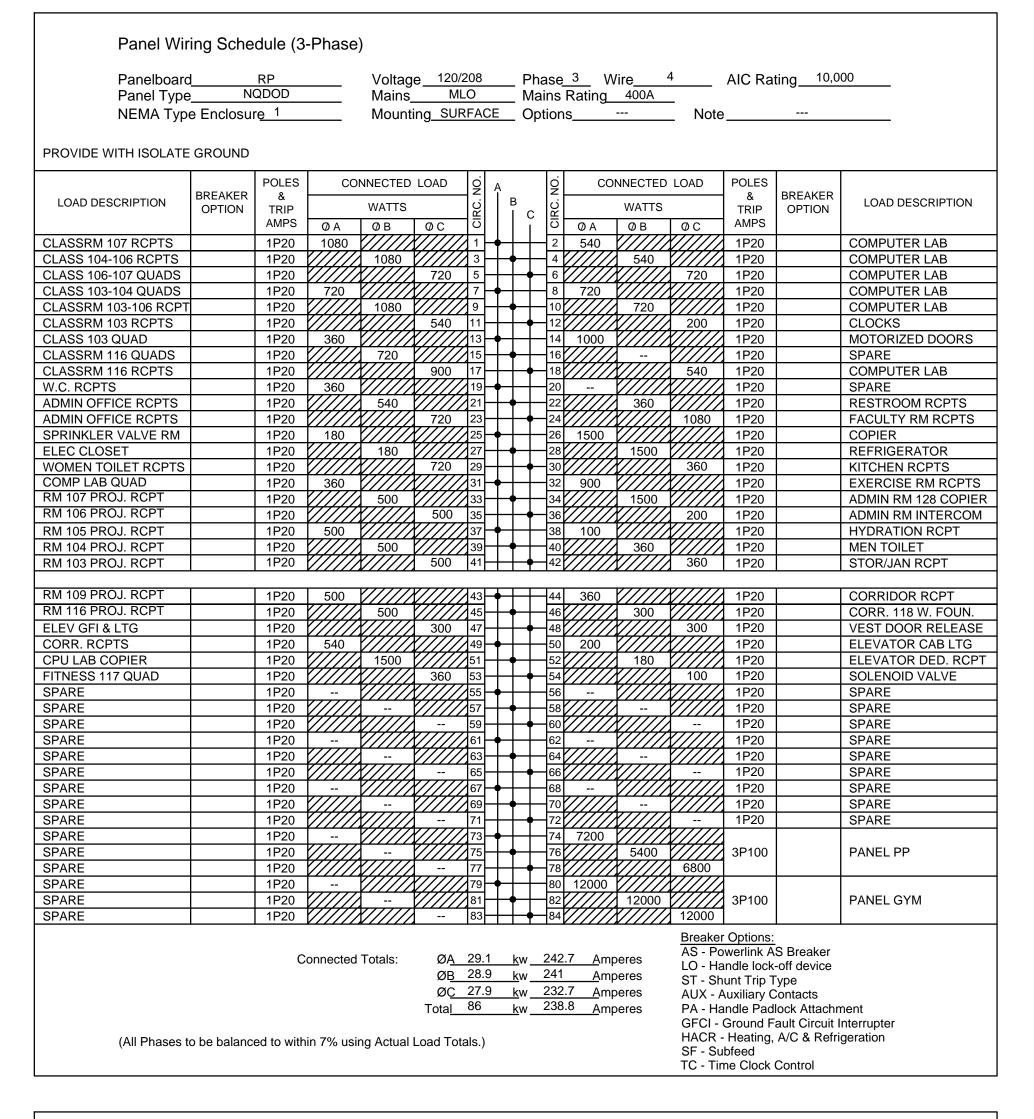


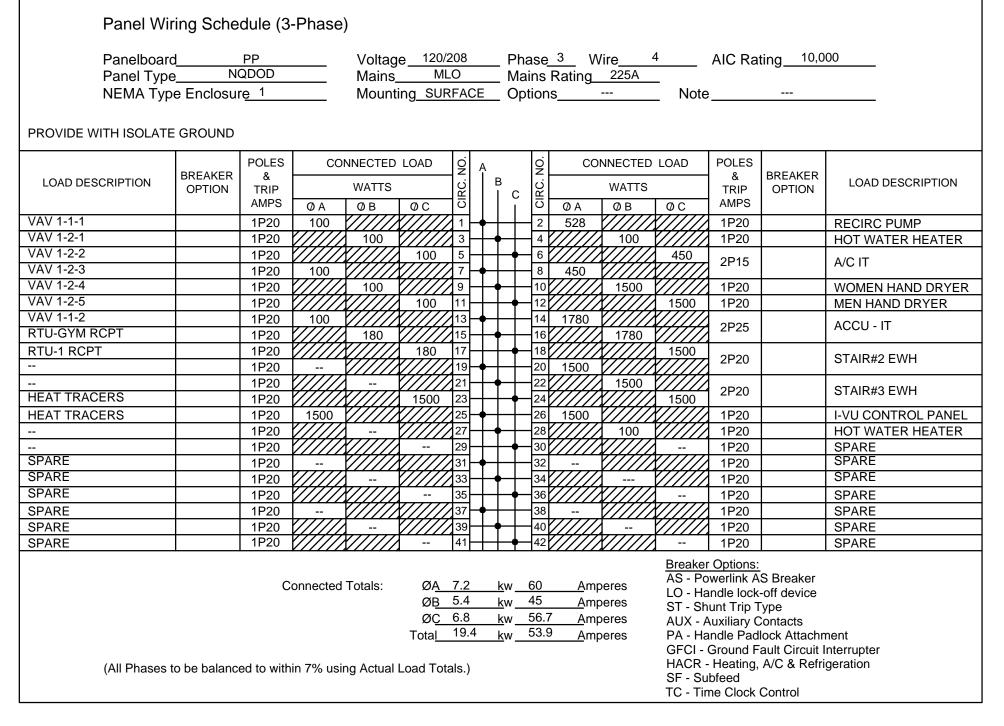
UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS WEST HALL ADDITION 1776 Raritan Road, Scotch Plains, New Jersey 07076

SHEET CONTENTS:

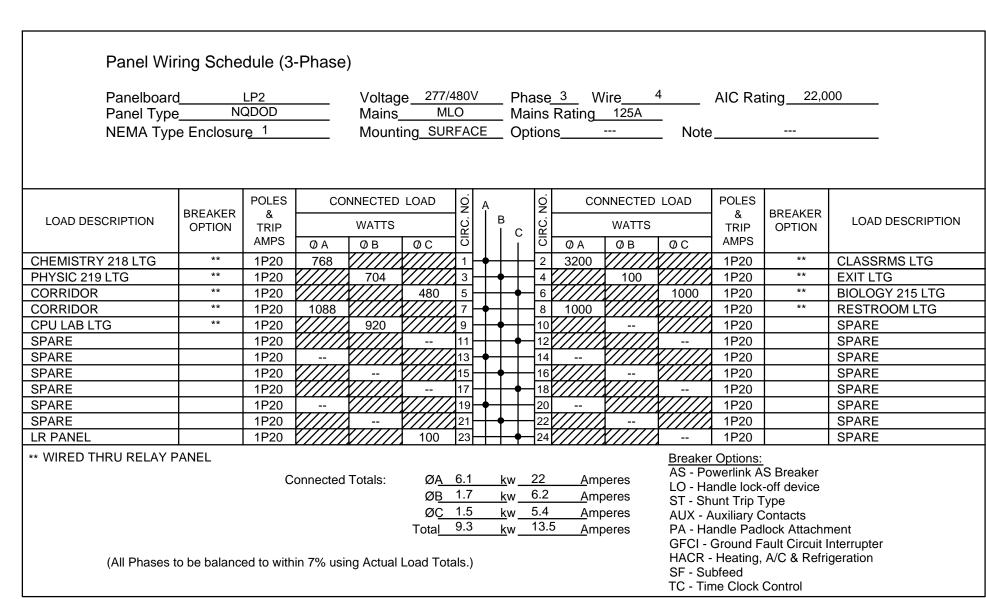
LOW VOLTAGE RISER DIAGRAMS

	SUBMI	SSIONS			REVISI	ONS			DATE	07.12.13
	DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD	SCALE	AS SHOWN
S	10.01.13	ISSUED FOR BID							DRWN BY	WH
									CHKD BY	CMS/FTK
									JOB NO	2131056/13-0529
_									SHEET:	8 OF: 11
_									DRWG NO	
										E.201
										





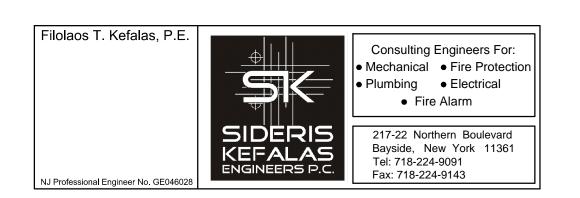
Panelboar Panel Typ NEMA Typ	d eN be Enclosu	LP QDOD re <u>1</u>		Voltag Mains Mount	ge <u>277/</u> Miting SUF	480V _O RFACE	P M <u>=</u> O	nase ains ption	3 \ Rating s	Nire 125A 	Note	AIC Ra	ting <u>22,0</u> 	000
LOAD DESCRIPTION	BREAKER OPTION	POLES & TRIP AMPS	CON Ø A	NNECTED WATTS Ø B	LOAD	CIRC. NO.	А В С	CIRC. NO.	O A	ONNECTED WATTS	D LOAD	POLES & TRIP AMPS	BREAKER OPTION	LOAD DESCRIPTION
FITNESS LTG	**	1P20	768			71-	 	_ 2	3000			1P20	**	CLASSRM 1&2 LTG
OCKER RMS LTG	**	1P20		960		3 -	│	-4	/////	1500		1P20	**	COM/FAC. AREA LTG
OBBY/VEST LTG	**	1P20		//////	544	5 –	│ 	 6		X/////	100	1P20	**	EXIT SIGNS
IEALTH LTG	**	1P20	1152		2/////	77 -	lack	 8	300	1////	2/////	1P20	**	EXTERIOR LIGHTING
ORRIDOR LTG	**	1P20	111111	1200		19 -	┡	10	/////	200	1/////	1P20	**	STAIR#3
XTERIOR LTG	**	1P20	1/////		100	111	│ 	12		1/////	1000	1P20	**	ADMIN OFFICE
XT EMERGENCY LTG		1P20	250		11111	13 -	lack	14	150		X/////	1P20	**	STAIR 2 LTG
PARE		1P20	177777		1////	15 —	$\vdash \downarrow \vdash$	16	7777		1/////	1P20		SPARE
SPARE		1P20	1/////	/////		17	│ 	18		X/////		1P20		SPARE
PARE		1P20			X/////	119	lack	20		1/////	X//////	1P20		SPARE
SPARE		1P20	1/////		Y////	21 -		$-\frac{1}{22}$	/////	/////	\/////	1P20		SPARE
R PANEL	**	1P20	//////	//////	100	23 —	│ 	24		1/////		1P20		SPARE
WIRED THRU RELAY (All Phases	PANEL to be balanc		connected [*] hin 7% usir		ØA_ ØB_ ØC_ Total_ Load Tot	4 2 12.4	<u>k</u> w_ <u>k</u> w_	23. ⁻ 14. ⁴ 7 14.9	<u>1 A</u> n An	nperes nperes nperes nperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI -	indle lock unt Trip T auxiliary (indle Pad Ground F Heating,	S Breaker -off device Type	Interrupter



Panelboard <u>GYM</u> Panel Type <u>NQDOD</u> NEMA Type Enclosure 1				Voltage 120/208 Mains MLO Mounting SURFACE				1ains	Rating	225A	4 Note	AIC Ra	00	
NEWA TY	pe Enclosu	<u>C</u>		Modri	<u>g </u>	<u> </u>		ριιοι	.S		_ 14010			
LOAD DESCRIPTION	BREAKER OPTION	POLES & TRIP AMPS	COI	NNECTED WATTS Ø B	LOAD	CIRC. NO.	A B C	CIRC. NO.		ONNECTED WATTS	LOAD	POLES & TRIP AMPS	BREAKER OPTION	LOAD DESCRIPTION
ELLIPTICAL				777777	17777		\perp	$-\frac{0}{2}$	Ø A 1500	177777	177777			TREADMILL
ELLIPTICAL		1P20 1P20	1500	<i>/////</i> 1500	\/////	1 1 3		4	/////	1500		1P20 1P20		TREADMILL
ELLIPTICAL	+	1P20 1P20		/////	1500	5		6		//////	1500	1P20 1P20		TREADMILL
ELLIPTICAL		1P20	1500		1/////	77		8	<i>/////</i> 1500	\/////	X/////	1P20		TREADMILL
ELLIPTICAL		1P20	//////	1500	\/////	9			/////	1500	<i>\/////</i>	1P20		TREADMILL
ELLIPTICAL		1P20		77777	1500	11		12		77777	1500	1P20		TREADMILL
ELLIPTICAL		1P20	1500		7/////	13		14	1500		7/////	1P20		TREADMILL
ELLIPTICAL		1P20	177777	1500	\/////	15		16	/////	1500		1P20		TREADMILL
TREADMILL		1P20		77777	1500	17		18		77777	1500	1P20		TREADMILL
TREADMILL		1P20	1500		7/////	119		20	1500		7/////	1P20		TREADMILL
TREADMILL		1P20	//////	1500	\/////	21 -		22	/////	1500		1P20		TREADMILL
TREADMILL		1P20		77777	1500	23		24		77777	1500	1P20		TREADMILL
SPARE		1P20			X/////	25		26			X//////	1P20		SPARE
SPARE		1P20	111111	<i>/////</i>	\/////	27		28	/////			1P20		SPARE
SPARE		1P20		/////	<i></i>	29		30		201111		1P20		SPARE
SPARE		1P20			11///	31	\bot	32	/////		2/////	1P20		SPARE
SPARE		1P20	111111		\/////	33 -		$-\frac{32}{34}$	/////		\/////	1P20		SPARE
SPARE		1P20		/////	/////	35 -	\bot	36		X/////		1P20		SPARE
SPARE		1P20			X/////	37	\downarrow	38		\/////	X//////	1P20		SPARE
SPARE		1P20	//////		\/////	39	+ + +	-40	/////		Y/////	1P20		SPARE
SPARE		1P20		//////		41	+	42		X/////		1P20		SPARE
Connected Totals: ØA 1 ØB 1 ØC 1 Total 3								33.3 33.3 99.7	3 <u>A</u> m 3 <u>A</u> m	peres peres peres peres	Breaker Options: AS - Powerlink AS Breaker LO - Handle lock-off device ST - Shunt Trip Type AUX - Auxiliary Contacts PA - Handle Padlock Attachment GFCI - Ground Fault Circuit Interrupter HACR - Heating, A/C & Refrigeration			

Panel Wir	ı	DDO .	Ź		je120/2	208	r	Dhaar	_	3 \//	'iro	4	AIC Do	ting 10.0	00
Panelboard <u>RP2</u> Panel Type <u>NQDOD</u>				Mains		<u>.00</u>					225A		AIC Ra	ting <u>10,0</u>	
NEMA Typ	e Enclosu	re 1			ing SUR										
NEW/C Typ	C Enclosu	<u> </u>		Woork	<u>g - 001.</u>		<u> </u>	Ο ΡίΙΟΙ	110			_ 14010			
			NNECTED	ECTED LOAD O			Z			CONNECTED LOAD		POLES BREA	BREAKER		
LOAD DESCRIPTION	OPTION	& TRIP AMPS	Ø A	WATTS Ø B	ГФС	CIRC.	B 	C C C		Ø A	WATTS Ø B	ОС	TRIP AMPS	OPTION	LOAD DESCRIPTION
RM 206 & 207 QUADS		1P20	720	77777	111111	扣	+	1 2		720	111111	111111	1P20		COMPUTER LAB 209
RM 207 RCPT		1P20		1080	V/////	3	+	4	+-		360	1////	1P20		COMPUTER LAB 209
RM 203-205 QUADS		1P20			1080	5 -	++	6				720	1P20		COMPUTER LAB 209
RM 203-206 RCPT		1P20	1080			7	++	8	I	720			1P20		COMPUTER LAB 209
RM 203 RCPT		1P20		540	<i>[[]]</i>	9	++	10	-	/////	720		1P20		COMPUTER LAB 209
CORRIDOR 208		1P20			540	11	$\dagger \dagger$	12	-			1500	1P20		COMPUTER LAB COPI
ELEC 211 RCPT		1P20	900	<u> </u>	<i>\}}}</i>	113	†	14	-	720	<i>[]]]]]</i>		1P20		COMPUTER LAB 209
PREP 218 RCPT		1P20		360	<u> </u>	15	†	16	₩	/////	 /////	<u> </u>	1P20		PIOLOCY 247 DCDTS
COM. LAB QUAD PREP 218 COPIER		1P20 1P20	1500		360	17		18	—⊬	<u>////</u> 360		720	1P20 1P20		BIOLOGY 217 RCPTS BIOLOGY 217 QUAD
PREP 218 COPIER PREP 218 RCPT		1P20 1P20	1500	<i>/////</i> 360		119 21		22	+-	30U /////	360		1P20 1P20		BIOLOGY 217 QUAD BIOLOGY 217 GFI
PREP 218 GFI		1P20 1P20		/////	720	23	$\perp \Gamma$	24	-		/////	360	1P20 1P20		BIO 217 LAB TABLE
MEN TOILETS		1P20	360		111111	25		26	_	360		177777	1P20		BIO 217 LAB TABLE
WOMEN TOILETS		1P20	177777	360	<i>\/////</i>	27	\bot	28	+-	77777	360		1P20		BIO 217 LAB TABLE
CHEM 219 RCPTS		1P20		//////	360	29	++	30	-		177777	360	1P20		BIO 217 LAB TABLE
CHEM 219 LAB TABLE		1P20	360			31	+	32	_	360			1P20		BIO 217 LAB TABLE
CHEM 219 LAB TABLE		1P20		360		33	++	34	4		360		1P20		BIO 217 LAB TABLE
CHEM 219 LAB TABLE		1P20			360	35	++	36	<u> </u>			500	1P20		FUME HOOD JUNCTIO
CHEM 219 LAB TABLE		1P20	360			37	+	38	_	500			1P20		FUME HOOD JUNCTIO
CHEM 219 LAB TABLE		1P20		360		39	++	40	7		500		1P20		FUME HOOD JUNCTIO
CHEM 219 LAB TABLE		1P20	<u> </u>	/////	360	41		42	21/	<u>/////</u>	/////	500	1P20		FUME HOOD JUNCTIO
PHYSICS 219 QUAD		1P20	720			43	 	44	4	500			1P20		CLASS 203 PROJ. RCP
PHYSICS 219 GFI		1P20		180		45	++	46			500		1P20		CLASS 204 PROJ. RCP
W.C. RCPTS		1P20			360	47	+	48				500	1P20		CLASS 205 PROJ. RCP
PHYSICS 219 RCPTS		1P20	720	/////		49	•	50		500			1P20		CLASS 206 PROJ. RCP
CLASS 209 PROJ. RCPT CLASS 23-205 RCPTS		1P20 1P20		500	1080	51 53		52 54	_		500	<i>/////</i>	1P20 1P20		CLASS 207 PROJ. RCP
CLOCKS		1P20 1P20	200		//////	55 55		56	_	500		·/////	1P20		CLASS 217 PROJ. RCP
SPARE		1P20	177777	/////		57		58		77777	500		1P20		CHEM 219 PROJ RCPT
SPARE		1P20		/////		59	$+ \bot$	60	_		77777		1P20		SPARE
SPARE		1P20				61	+	62	_				1P20		SPARE
SPARE		1P20				63	++	64	_				1P20		SPARE
SPARE		1P20				65	++	66	_				1P20		SPARE
SPARE		1P20			<i>\\\\\\</i>	67	+	68					1P20		SPARE
SPARE		1P20			<i>[[]]</i>	69	++	70	т,	444			1P20		SPARE
SPARE		1P20			1	71	$\dagger \dagger$	72	_				1P20		SPARE
SPARE		1P20	 /////	<i>[]]]]]</i>	<i>\}}}</i>	73	1	74	+-		<i>[[]][]</i>		1P20		SPARE
SPARE		1P20			<i>\////</i>	75		76	т,	/////	 /////	<i>Y/////</i>	1P20 1P20		SPARE
SPARE SPARE		1P20 1P20	<i>/////</i>	<i>}}}}</i>	111111	77 - 79 -		78	_	<i>////</i> 5400		111111	1720		SPARE
SPARE		1P20 1P20	1////	/ <i>////</i> 	<i>\/////</i>	179 181		82	-	/////	7200	\/////	3P100		PANEL PP2
SPARE		1P20				83	\coprod	84	_			6600	01 100		. /
		С	onnected	Totals:	Ø <u>C</u>	17.6 15.8 17 50.4	<u>k</u> w <u>k</u> w	14	1.8 1.5	3 Amp	eres eres	AS - Po LO - Ha ST - Sh AUX - A	ndle lock unt Trip T uxiliary C	S Breaker -off device ype	nent
(All Phases t	o be balanc	ed to with	in 7% usir	ng Actual	. o.a <u>. </u>		<u>K</u> W	, <u> </u>		<u> </u>	G162	GFCI - HACR - SF - Su	Ground F Heating,	ault Circuit I A/C & Refri	Interrupter

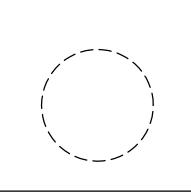
Panelboard PP2 Panel Type NQDOD			Voltage 120/208 Mains MLO				Mains Rating 225A						000	
NEMA Ty	pe Enclosui	r <u>e 1</u>		Mount	ting <u>SUR</u>	<u>FACE</u>	_ 0	ptio	ns		_ Note			
PROVIDE WITH ISOLAT	T	POLES	СО	NNECTED	LOAD	ġ Ą		S	C	ONNECTED) LOAD	POLES		
LOAD DESCRIPTION	BREAKER OPTION	& TRIP AMPS	Ø A	WATTS 2 N			В С	ا ا د			Тøс	& TRIP AMPS	BREAKER OPTION	LOAD DESCRIPTION
VAV 2-2-1		1P20	100	17777	177777	オ┰┞╈	$\perp \!\!\! \perp$	$-\frac{1}{2}$		111111	X77777	1P20		RECIRC PUMP
VAV 2-2-2	1	1P20	111111	100	1/////	13	\rightarrow	$-\frac{1}{4}$	1////	220	1/////	1P20		CIRC PUMP
VAV 2-2-3		1P20	1////		100	$\frac{1}{5}$	-	<u> </u> 6	1////	2/////	450			
VAV 2-2-4		1P20	100		Y////	1 7	\dashv	 8	450	V////	2/////	2P15		A/C IT
VAV 2-2-5		1P20	/////	100	V/////	9	- 	10		1780	V/////	2P25		A/C ACCU IT
VAV 1-1-3		1P20			100	11		12	2////	2/////	1780	2P25		A/C ACCUIT
VAV 2-1-3		1P20	100			13	+	<u> 1</u> 4	180			1P20		RTU 1-1 RCPT
VAV 2-1-2		1P20		100		15	+	16		180		1P20		RTU 1-2 RCPT
VAV 2-1-1		1P20			100	17	+	18	3////	7/////	180	1P20		RTU 1-3 RCPT
VAV 1-1-4		1P20	100			19	+	2	180			1P20		RTU 2-1 RCPT
STAIR#2 EWH		2P20		1500		21	+	<u> </u>	2////	180		1P20		RTU 2-2 RCPT
STAIR#Z EVVII		2P20			1500	23	+	<u> </u>	4////	X/////	180	1P20		RTU 2-3 RCPT
STAIR#3 EWH		2P20	1500		<i>}/////</i>	25	+	26	1500		X/////	1P20		WOMEN HAND DR
STAIR#3 EVVII				1500		<u> </u>	+	<u>28</u>	3////	1500	<u> </u>	1P20		MEN HAND DRYEF
TX-1		1P20			696	29	+	<u>30</u>		<u> </u>		1P20		SPARE
TX-2		1P20	696			31	+	<u> 32</u>	2		X/////	1P20		SPARE
SPARE		1P20		1		133	+	<u>3</u>	4 <i>////</i>		<u> </u>	1P20		SPARE
SPARE		1P20				35	+	<u> 3</u> 6		<u> </u>		1P20		SPARE
SPARE		1P20			<i>X/////</i>	37	+	38	3	<i>\////</i>	X/////	1P20		SPARE
SPARE		1P20		1		39	+	40				1P20		SPARE
SPARE		1P20	<u> </u>	<u> </u>	1	41	 	42	<u> </u>	<u>X/////</u>	1500	1P20		LAB CONTROL PA
(All Phases	to be balanc		Connected		. 0 101	7.2 6.6 19.2	<u>k</u> w <u>k</u> w <u>k</u> w <u>k</u> w	45 60 55 53	Am	aperes aperes aperes aperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI -	andle lock aunt Trip T Auxiliary (andle Pad Ground F - Heating,	S Breaker -off device Type	Interrupter



These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB NJ License No. AI 12541 FRANCISCO J. MELENDEZ, SR., AIA NJ License No. AI 12118 MARK E. BESS, AIA NJ License No. AI 16160 LAURENCE K. UHER, AIA, LEED, AP NJ License No. AI 14394





UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS

WEST HALL ADDITION

1776 Raritan Road, Scotch Plains, New Jersey 07076

SHEET CONTENTS:

PANEL SCHEDULES

SUBMISSIONS
DATE DESCRIPTION BY CHKD DATE DESCRIPTION BY CHKD SCALE AS SHOWN

10.01.13 ISSUED FOR BID

DRWN BY WH

CHKD BY CMS/FTK

JOB NO 2131056/13-0529

SHEET: 9 OF: 12

DRWG NO

E.300

GENERAL ELECTRICAL NOTES

- 1. ALL WIRING SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND SPECIFICATIONS ROMEX (TYPE NM) IS PROHIBITED.
- 2. ELECTRICAL CONTRACTOR SHALL FILE WITH ALL AGENCIES AND OBTAIN ALL APPROVALS FOR THE WORK UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE FILINGS.
- 3. ALL EQUIPMENT FEED TERMINATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
- 4. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER DISCIPLINES AND GENERAL CONTRACTOR.
- 5. LOCATION OF MECHANICAL EQUIPMENT SHALL BE FIELD COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGHING-IN.
- 6. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, RATED 90°, 600 VOLT (AS PER TABLE 310.16 NEC 2005). MINIMUM SIZE NO. 12 AWG. ALUMINUM CABLE IS PROHIBITED.
- 7. ALL 15 AND 20 AMPERE BRANCH CIRCUIT OVER 100 FEET SHALL BE WIRED WITH NUMBER 10 AWG WIRING. ALL 15 AND 20 AMPERE BRANCH CIRCUIT OVER 200 FEET SHALL BE WIRED WITH NUMBER 8 AWG WIRING.
- 8. ARMORED CABLE (BX) PERMITTED TO BE RUN CONCEALED INDOORS (ABOVE CEILING, BEHIND WALLS) AS PER CODE.
- 9. ALL CONDUIT INDOORS (WHERE REQUIRED BY CODE) SHALL BE EMT (ELECTRIC METAL TUBING). ALL CONDUIT
- 10. EXACT LOCATION OF LIGHTING FIXTURES AND INSTALLATION DETAILS SHALL BE AS SHOWN ON THE LATEST
- ARCHITECTURAL REFLECTED CEILING PLAN. REVIEW PRIOR TO ROUGHING-IN.

 11. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW CEILING MTD EQUIPMENT WITH ALL OF THE
- 12. VERIFY ALL CEILING TYPES AND MATERIALS PRIOR TO ORDERING LIGHT FIXTURES.
- 13. SUPPORT EACH LIGHTING FIXTURE (WITH CHAINS WHEN REQUIRED BY CODE) INDEPENDENTLY FROM THE
- SUSPENDED CEILING AND COORDINATE ITS LOCATION WITH THAT OF OTHER ÉQUIPMENT TO AVOID CONFLICTS.

 14. EMERGENCY LIGHT FIXTURES SHALL HAVE AN UNSWITCHED HOT FEED TO THEIR BATTERY PACK.SEE DETAIL.
- 15. SEE ARCHITECTURAL PLANS FOR LIGHT FIXTURE SPECIFICATIONS.

OUTDOORS SHALL BE RIGID GALVANIZED STEEL.

VARIOUS TRADES.

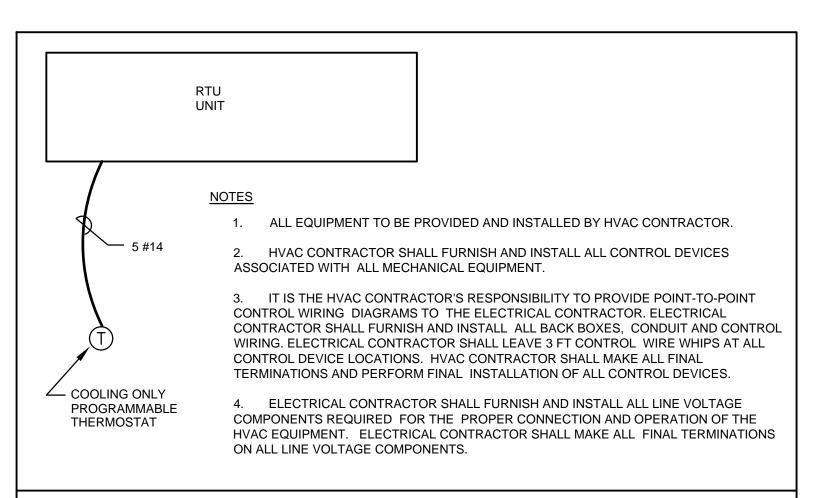
WITH THEM.

- 16. ALL ELECTRICAL DEVICES (SWITCHES, RECEPTACLES, PLUGS, COVER PLATES) TO BE DECORA PLUS BY LEVITON. COLORS TO BE SELECTED BY ARCHITECT.
- 17. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL CONDUIT WITH DRAG LINE FOR PULLING OF TELEPHONE CO.
- WIRES. VERIFY REQUIREMENTS IN THE FIELD.
- ALL REQUIREMENTS IN THE FIELD.

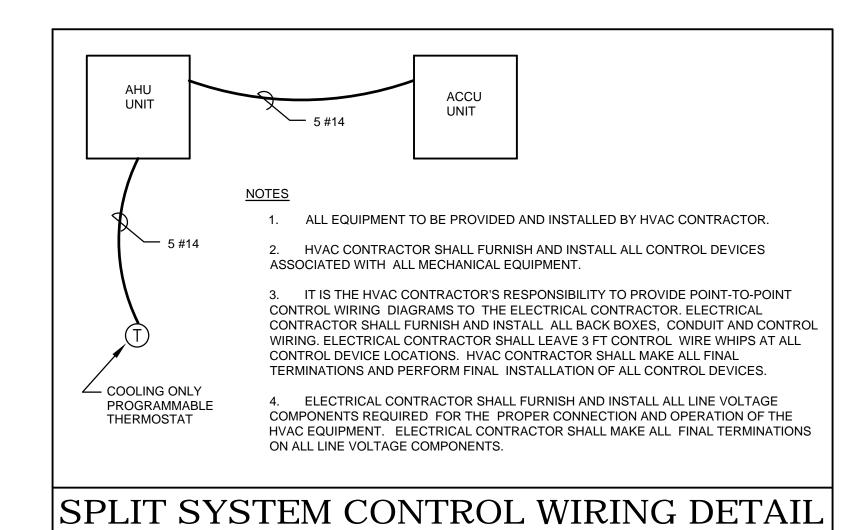
 19. ELECTRICAL CONTRACTOR TO FURNISH + INSTALL ALL CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT. (NOT SHOWN ON THESE PLANS). VERIFY EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR TO COORDINATE WORK

18. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL CONDUIT WITH DRAG LINE FOR PULLING OF DATA WIRES. VERIFY

20. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.



HVAC CONTROL WIRING DETAIL



ELECTRICAL LEGEND

CONDUIT AND WIRING CONCEALED IN CLG OR WALLS. BRANCH CIRCUIT WIRING. THE NUMBER OF TICS INDICATES THE NUMBER OF CONDUCTORS EXCLUDING GROUNDS.



HOME RUN TO POWER PANEL, THE NUMBER OF TICS INDICATES THE NUMBER OF CONDUCTORS EXCLUDING GROUNDS. NOMENCLATURE INDICATES THE POWER PANEL AND CIRCUIT BREAKER NUMBER (POWER PANEL HP, CIRCUIT BREAKER NUMBER 35).

INDICATES INDIVIDUAL HOT, NEUTRAL AND GROUND CONDUCTORS.

———— LMRS LOW VOLTAGE CABLE

- DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
 OUTLET, 20 AMP 2P 3W 125 VOLT GROUNDING, WALL MTD.
 PASS & SEYMOUR 2095TR
- DUPLEX RECEPTACLE OUTLET 20 AMP 2P 3W 125 VOLT.
 PASS & SEYMOUR 26362TR
- DOUBLE DUPLEX RECEPTACLE OUTLET 20 AMP 2P 3W 125 VOLT.
 (2) PASS & SEYMOUR 26362TR
- OCCUPANCY SENSOR, CEILING MOUNTED
 WATTSTOPPER LMPC-100
- PP POWER PACK FOR LIGHTING CONTROL. WATTSTOPPER LMRC-101
- (J) ELECTRICAL JUNCTION BOX.

FAX: 201-222-7527

FOR FURTHER INFORMATION IN REGARDING TO RECEPTACLES CONTACT:
RAPHAEL ALMEIDA OF LEGRAND
TEL. 561-271-5491

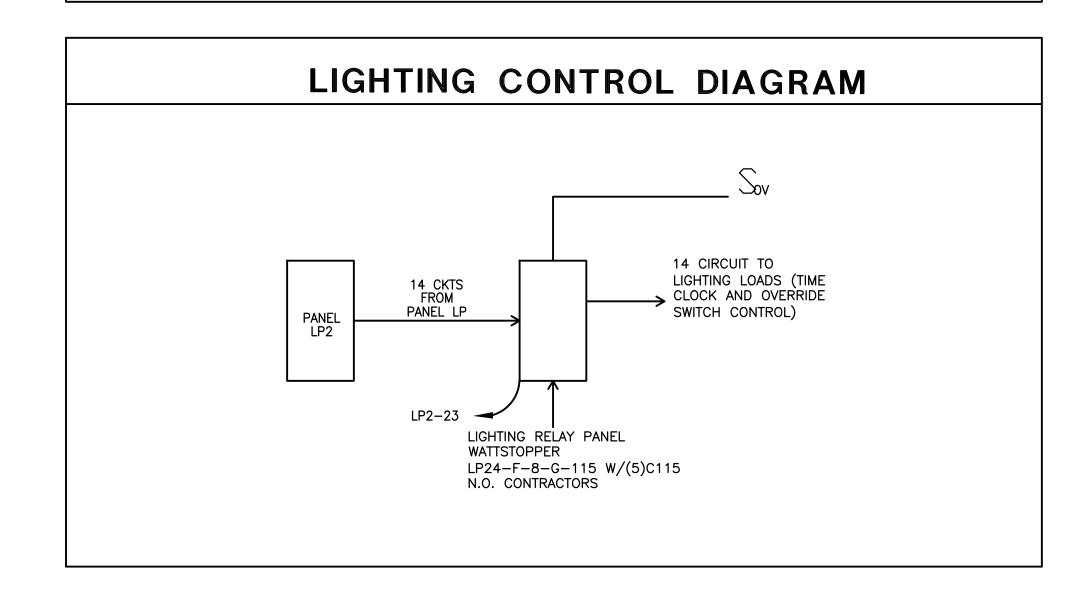
- WP WEATHER PROOF ENCLOSURE.
- SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CIRCUIT THAT IS BEING CONTROLLED. PASS & SEYMOUR 2601LA
- THREE WAY TOGGLE SWITCH 15A. PASS & SEYMOUR 2603LA
- S MANUAL SWITCH WITH STANDARD TRIP THERMAL UNIT. EQUAL TO SQ D CLASS 2510 TYPE KG1A (NEMA 1 ENCLOSURE).
- UNFUSED DISCONNECT SWITCH (NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR).
- FUSED DISCONNECT SWITCH (NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR).

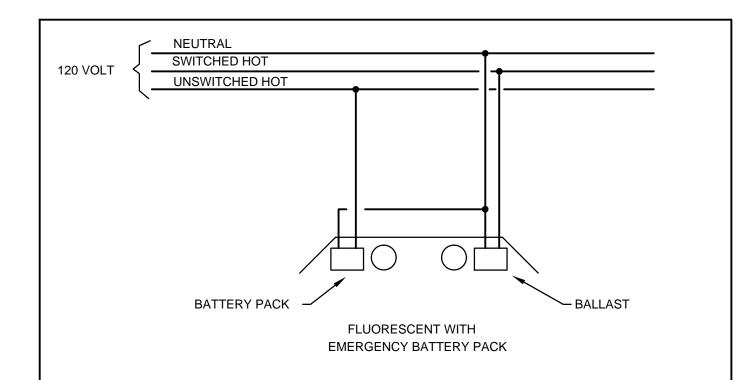
 COMBINATION STARTER AND DISCONNECT (NEMA 1 FOR INDOOR AND
- NEMA 3R FOR OUTDOOR).

 COMBINATION TELEPHONE/DATA JACK IN ONE SINGLE GANG FACE PLATE.
 ORTRONICS OR-40300570P-88/ OR-40300670P-88/ OR-TJ5E00-88
- TELEPHONE JACK
 ORTRONICS OR-40300670P-88/ OR-TJ5E00-88
- DATA JACK
- TELEVISION OUTLET FLUSH WALL MOUNTED 2-1/8"x4 INCH JUNCTION BOX.
- PP FLUSH WALL MOUNTED APARTMENT PANELBOARD WITH BRANCH
 CIRCUIT BREAKERS. REFER TO PANEL SCHEDULES
- SOC WALL MOUNTED OCCUPANCY SENSOR SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CIRCUIT THAT IS BEING CONTROLLED. WATTSTOPPER PW-100
- SLV LOW VOLTAGE SWITCH, ONE BUTTON. LOWER CASE LETTER INDICATES LIGHTING CIRCUIT THAT IS BEING CONTROLLED. WATTSTOPPER LMSW-101
- SLV2 LOW VOLTAGE SWITCH, TWO BUTTON. LOWER CASE LETTER INDICATES LIGHTING CIRCUIT THAT IS BEING CONTROLLED. WATTSTOPPER LMSW-102

FOR FURTHER INFORMATION IN REGARDING TO LOW VOLTAGE CONTACT: CALL ORTRONICS (TECH SERVICES) TEL. 877-599-5393

LIGHTING CONTROL DIAGRAM 20 CKTS FROM PANEL LP 1 CIRCUIT TO LIGHTING LOADS (TIME CLOCK AND OVERRIDE SWITCH CONTROL) 1 CIRCUIT TO EXTERIOR LIGHTING (TIME CLOCK ONLY) LICHTING RELAY PANEL WATTSTOPPER LP24-F-8-G-115 W/(5)C115 N.O. CONTRACTORS



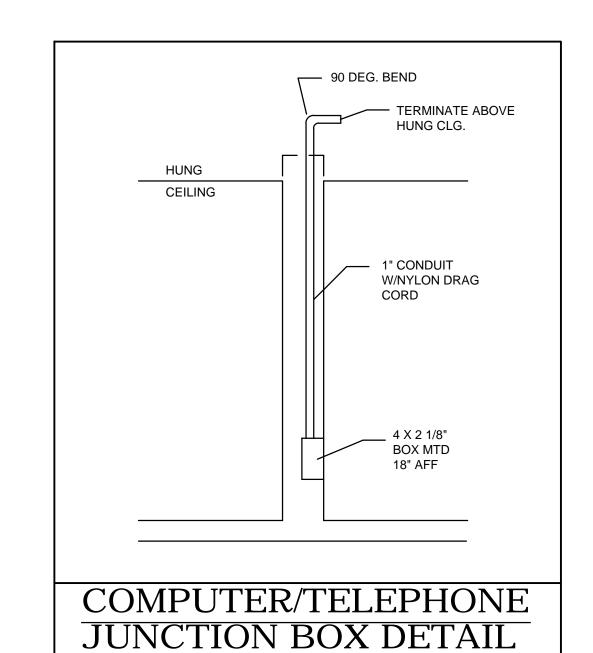


WIRING DIAGRAM FOR EMERGENCY LIGHTING

NOT TO SCALE

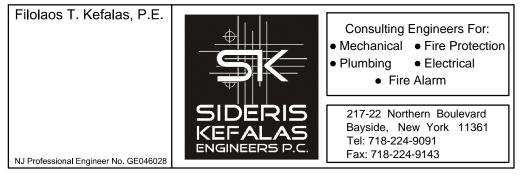
MECHANICAL AND PLUMBING EQUIPMENT WIRING NOTES

- I. ALL EQUIPMENT TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL DEVICES ASSOCIATED WITH ALL MECHANICAL AND PLUMBING EQUIPMENT.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POINT-TO-POINT CONTROL WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BACK BOXES, CONDUIT AND CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL LEAVE 3 FT CONTROL WIRE WHIPS AT ALL CONTROL DEVICE LOCATIONS. CONTRACTOR SHALL MAKE ALL FINAL TERMINATION AND PERFORM FINAL INSTALLATION OF ALL CONTROL DEVICES.
- 4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE VOLTAGE COMPONENTS REQUIRED FOR THE ROPER CONNECTION AND OPERATION OF THE EQUIPMENT. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL TERMINATION ON ALL LINE VOLTAGE COMPONENTS.



NOT TO SCALE

	LIGHTING LEGEND
A	FIXTURE TYPE "A" MD-24-G9-3T8-EVPR-277-SWR-EMPK 2' x 4' LAY-IN RECESSED LIGHT FIXTURE
В	FIXTURE TYPE "B" MD-22-G9-3T8-EBPR-277-SWR-EMPK 2' x 2' LAY-IN RECESSED LIGHT FIXTURE
oC	FIXTURE TYPE "C" EVO-35/18-GAR-MD-LV-277 6" RECESSED DOWNLIGHT
D8	FIXTURE TYPE "D8" P-S/D-18-4-8-T8-PBACRG-TCBC-ELB10-EW-2CWQ-LP/EF-277 8' LONG PENDANT MOUNTED SEMI-DIRECT LIGHT FIXTURE
D12	FIXTURE TYPE "D12" P-S/D-18-6-12-T18-PBACRG-TCBC-ELB10-TW-2CWA-LP/EV-277 12' LONG PENDANT MOUNTED SEMI-DIRECT LIGHT FIXTURE
★ EM	FIXTURE TYPE "EM" MIGN-25-LC-UN-SD-TLRT SURFACE CEILING-MOUNTED EXIT SIGN
EX1 EX2	FIXTURE TYPE "EX1 OR EX2" ELT-EM-R-1M/2M-BA-RC-UC-SD SURFACE WALL-MOUNTED EXIT SIGN
F8	FIXTURE TYPE "F8" PRM4-2-32-WHR-WPB-8-R8-277-GEB1-EL-SCT-LP835-F1-24-C518-ACG 8' LONG SUSPENDED IN-DIRECT LIGHT FIXTURE
F12	FIXTURE TYPE "F12" PRM4-2-32-WHR-WPB-12-R12-277-GEB10-EL-SCT-LP835-F1-24-C518-ACG 12' LONG SUSPENDED IN-DIRECT LIGHT FIXTURE
<u>G</u>	FIXTURE TYPE "G" HP4R-8-HO-3500K-277-SC-CSF 4" APERTURE-RECESSED LIGHT FIXTURE
H	FIXTURE TYPE "H" HP-12-2T8S-EBPR-277-EBB RECESSED PERIMETER WALL WASH LIGHT FIXTURE
	FIXTURE TYPE "J" 2GTL4LP835 2' x 4' RECESSED LIGHT FIXTURE
K	FIXTURE TYPE "K" HP-2-EM-D-2'-H0-4000K-277-SC-MB 2' x 2' RECESSED LIGHT FIXTURE
M	FIXTURE TYPE "M" WL4-41L-277-D4343W-LP835-NX 4' WALL-MOUNTED LIGHT FIXTURE
_o SL1	FIXTURE TYPE "SL1" MR13CL-PP-MB-20L40K-DV-9500-J9
oSL2	FIXTURE TYPE "SL2" M9720-SS-18LED-41K-MVOLT-MFL-FLC10-34S-STR-LD1M-LP
oSL3	FIXTURE TYPE "SL3" M9720-SS-18LED-41K-MVOLT-MFL-FLC5-34S-STR-LD1M-LP
SL4	LED CHALLENGER WALL SCONCE XCHWM3-FT-LED-48-277-BLK-CWBB

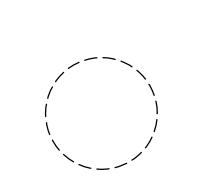


These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

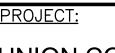
NICHOLAS J. NETTA, AIA, NCARB NJ License No. AI 12541 FRANCISCO J. MELENDEZ, SR., AIA NJ License No. AI 12118 MARK E. BESS, AIA NJ License No. AI 16160 LAURENCE K. UHER, AIA, LEED, AP

NJ License No. Al 14394





CERTIFICATE OF AUTHORIZATION AC-438



UNION COUNTY VOCATIONAL-TECHNICAL SCHOOLS

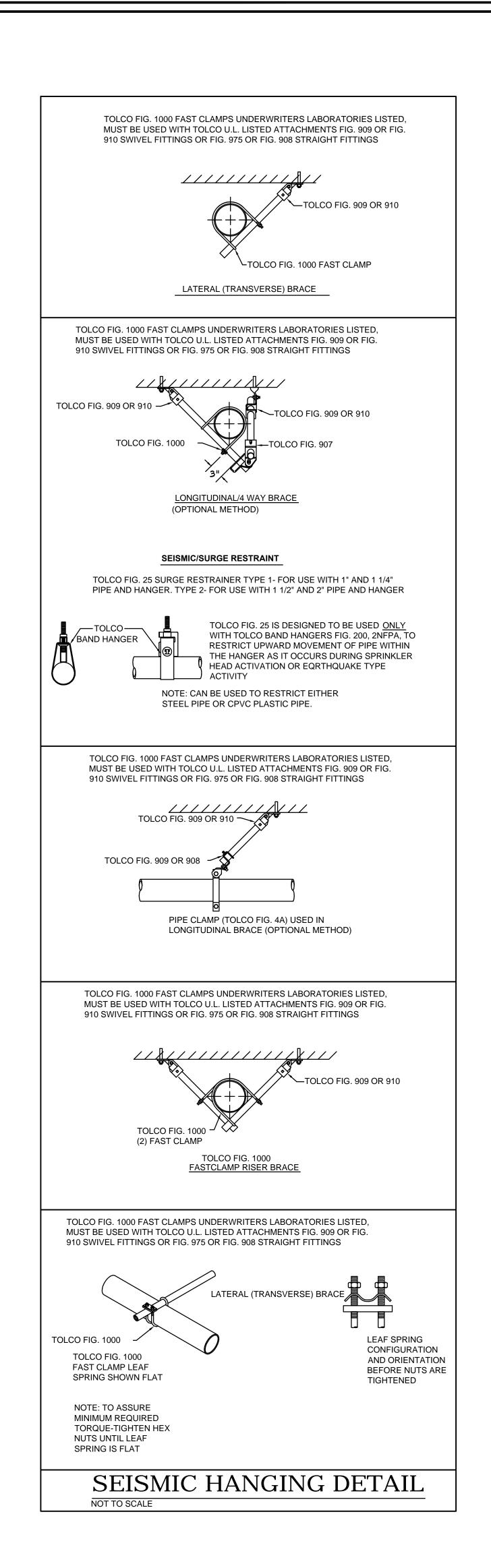
WEST HALL ADDITION

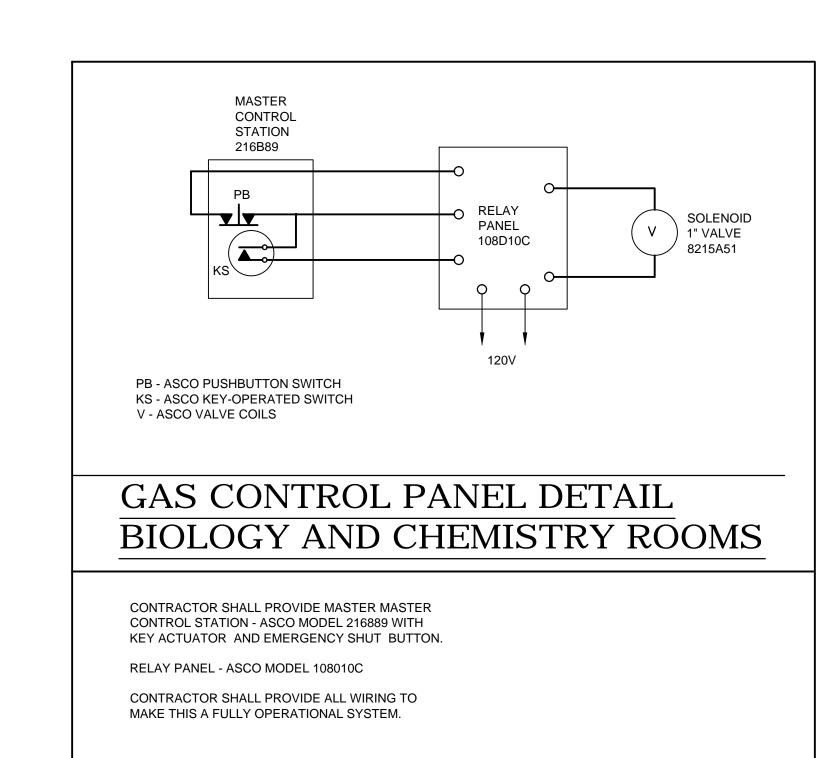
1776 Raritan Road, Scotch Plains, New Jersey 07076

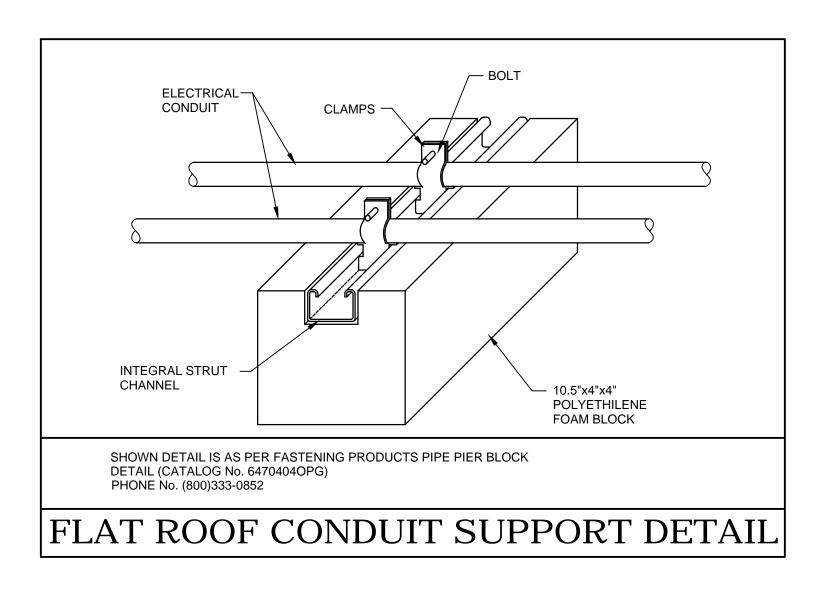
SHEET CONTENTS:

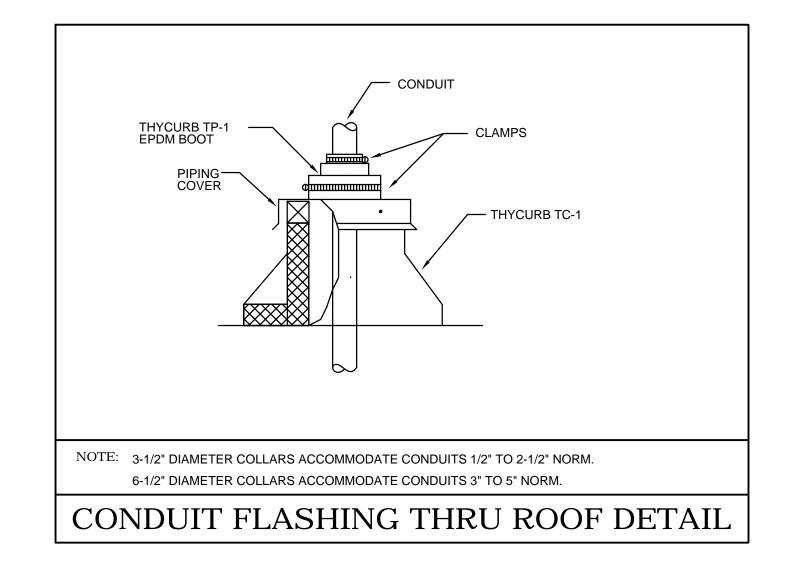
ELECTRIC NOTES & DETAILS

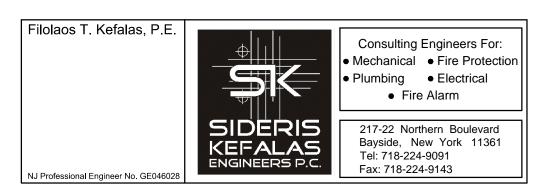
	SUBMI	SSIONS			REVISI	ONS		DATE	07.12.13	
						DESCRIPTION	BY	CHKD	SCALE	AS SHOWN
LS	10.01.13	ISSUED FOR BID							DRWN BY	WH
									CHKD BY	CMS/FTK
									JOB NO	2131056/13-0529
									SHEET:	11 OF: 12
									DRWG NO	
										1.400
										400











These drawings, or parts thereof, may not be reproduced in any form, by any method, for any purpose, without the prior written consent from NICHOLAS J. NETTA, ARCHITECT.

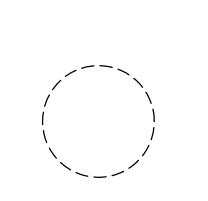
These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

NICHOLAS J. NETTA, AIA, NCARB
NJ License No. AI 12541

FRANCISCO J. MELENDEZ, SR., AIA
NJ License No. AI 12118

MARK E. BESS, AIA
NJ License No. AI 16160

LAURENCE K. UHER, AIA, LEED, AP
NJ License No. AI 14394





PROJECT:	
UNION CO	JNTY VOCATIONAL-TECHNICAL SCHOOLS
	WEST HALL ADDITION

1776 Raritan Road, Scotch Plains, New Jersey 07076

SHEET CONTENTS:

ELECTRIC NOTES & DETAILS

	SUBMI	SSIONS			REVISI	ONS		DATE	07.12.13		
DLS	DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD	SCALE	AS SHOWN	
	10.01.13	ISSUED FOR BID							DRWN BY	WH	
									CHKD BY	CMS/FTK	
									JOB NO	2131056/13-0529	
									SHEET:	12 OF: 12	
									DRWG NO		
										E.401	
										4 01	