# VALLEY CENTRAL SCHOOL DISTRICT BEREA ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE 1

# **ISSUED FOR BID:** 10/18/24

CSARCH - ARCHITECTS BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:2023 CAPITAL PROJECT - PHASE 144-13-01-06-0-017-014THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE<br/>PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND<br/>THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

# CSArch PROJECT NO. 187-2302.01



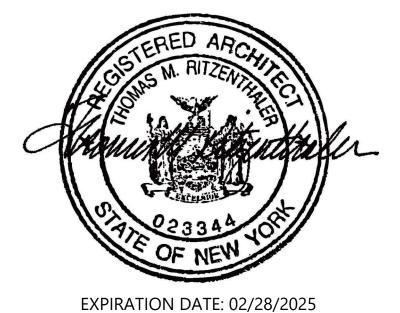
VICINITY MAP

-----Berea Elementary School

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		DRAWI	NG LIST	
	GENERAL DE	RAWINGS	PLUMBING (	GENE
	BES G000	COVER & SHEET INDEX	BES P001	PL
	BES G001	SYMBOLS, ABBREVIATIONS, MISC, AND PARTITION TYPES		
	BES G111	OVERALL FLOOR PLAN - FIRST FLOOR	PLUMBING D	DEMO
			BES PD111	PL
	LIFE SAFETY	DRAWINGS	BES PD112	PL
	BES LS111	LIFE SAFETY PLANS - FIRST FLOOR		
	BES LS112	SMOKE ZONE PLANS	PLUMBING D	ORAV
			BES P111	ΡL
	<b>CIVIL DRAW</b>	'INGS	BES P112	ΡL
	BES C100	KEY PLAN		
	BES C130	SITE, GRADING AND ESC PLAN	MECHANICA	L GE
	BES C530	DETAILS	BES M001	M
			BES M002	M
	ARCHITECTU	JRAL DEMOLITION DRAWINGS		
	BES AD111	REMOVALS PLAN - FIRST FLOOR - AREA A	MECHANICA	
	BES AD121	REMOVALS PLAN - FIRST FLOOR - AREA B	BES MD111	M
	BES AD811	REFLECTED CEILING DEMO PLAN - FIRST FLOOR AREA A	BES MD112	M
	BES AD812	REFLECTED CEILING DEMO PLAN - FIRST FLOOR AREA B		
			MECHANICA	
	ARCHITECTU	JRAL DRAWINGS	BES M111	M
	BES A111	ENLARGED FLOOR PLAN - FIRST FLOOR - AREA A	BES M112	M
	BES A112	ENLARGED FLOOR PLAN - FIRST FLOOR - AREAB		
	BES A201	EXTERIOR ELEVATIONS	ELECTRICAL	GEN
	BES A202	EXTERIOR ELEVATIONS	BES E001	EL
	BES A351	PLAN AND SECTION DETAILS		
	BES A601	ENLARGED PLAN AND INTERIOR ELEVATIONS	ELECTRICAL	DEM
	BES A602	ENLARGED PLAN AND INTERIOR ELEVATIONS	BES ED111	EL
	BES A651	CASEWORK DETAILS	BES ED112	EL
	BES A811	REFLECTED CEILING PLAN - FIRST FLOOR AREA A		
	BES A812	REFLECTED CEILING PLAN - FIRST FLOOR AREA B	ELECTRICAL	DRA
	BES A901	DOOR, WINDOW, & STOREFRONT DETAILS	BES E111	EL
			BES E112	EL
	ARCHITECTU	JRAL FINISH DRAWINGS	BES E211	LIC
	BES AF001	MATERIAL SCHEDULE	BES E212	LIC
	BES AF002	SIGNAGE TYPES AND SCHEDULE		
7	BES AF111	PLARGED FLOOR FINISHES PLAN - FIRST FLOOR - AREA A		
	BES AF112	ENLARGED FLOOR FINISHES PLAN - FIRST FLOOR - AREA B		
	FURNITURE			
	BES FE111	FLOOR FURNITURE PLAN - FIRST FLOOR - AREA A		

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NERAL DRAWINGS PLUMBING NOTES, SCHEDULE, LEGEND, & DETAILS

IOLITION DRAWINGS LUMBING DEMOLITION PLAN - PART 1 LUMBING DEMOLITION PLAN - PART 2

**AWINGS** PLUMBING PLAN - PART 1 PLUMBING PLAN - PART 2

**GENERAL DRAWINGS** MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS MECHANICAL SCHEDULES & DETAILS

DEMOLITON DRAWINGS MECHANICAL DEMOLITION PLAN - PART 1 MECHANICAL DEMOLITION PLAN - PART 2

**DRAWINGS** MECHANICAL PLAN - PART 1 MECHANICAL PLAN - PART 2

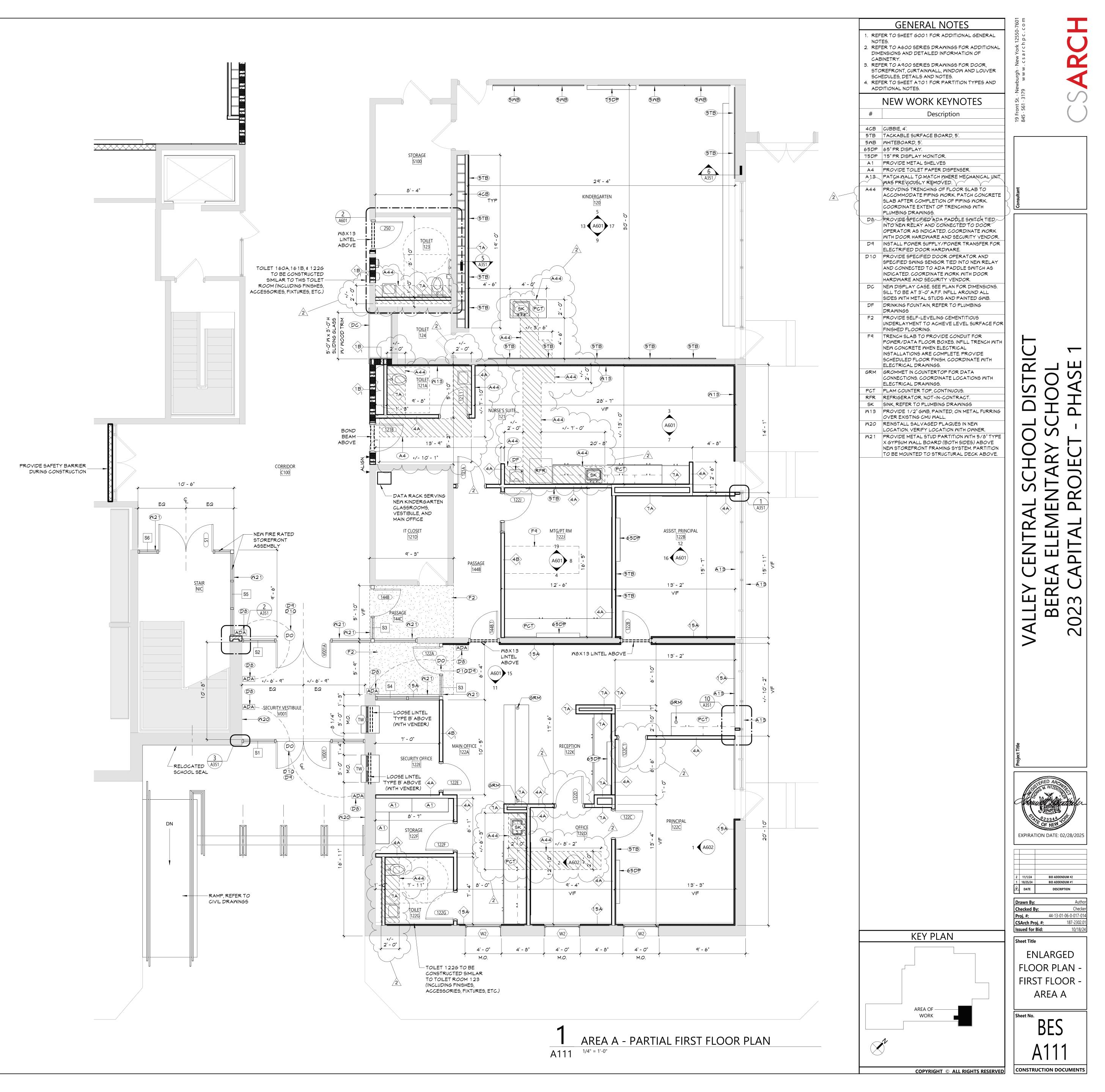
NERAL DRAWINGS ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS

MOLITION DRAWINGS ELECTRICAL DEMOLITION PLAN - PART 1 ELECTRICAL DEMOLITION PLAN - PART 2

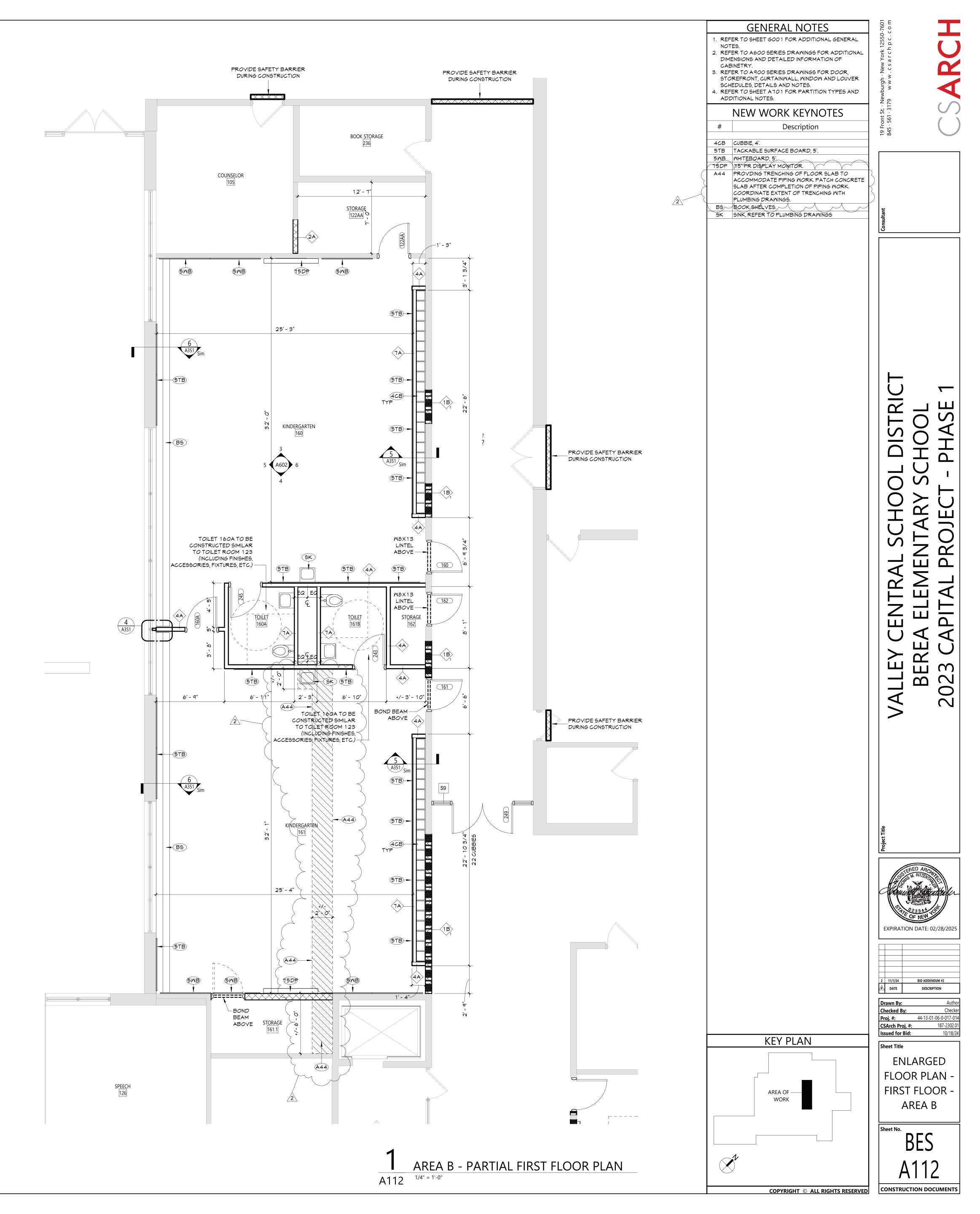
**AWINGS** ELECTRICAL PLAN - PART 1 ELECTRICAL PLAN - PART 2 LIGHTING PLAN - PART 1 LIGHTING PLAN - PART2

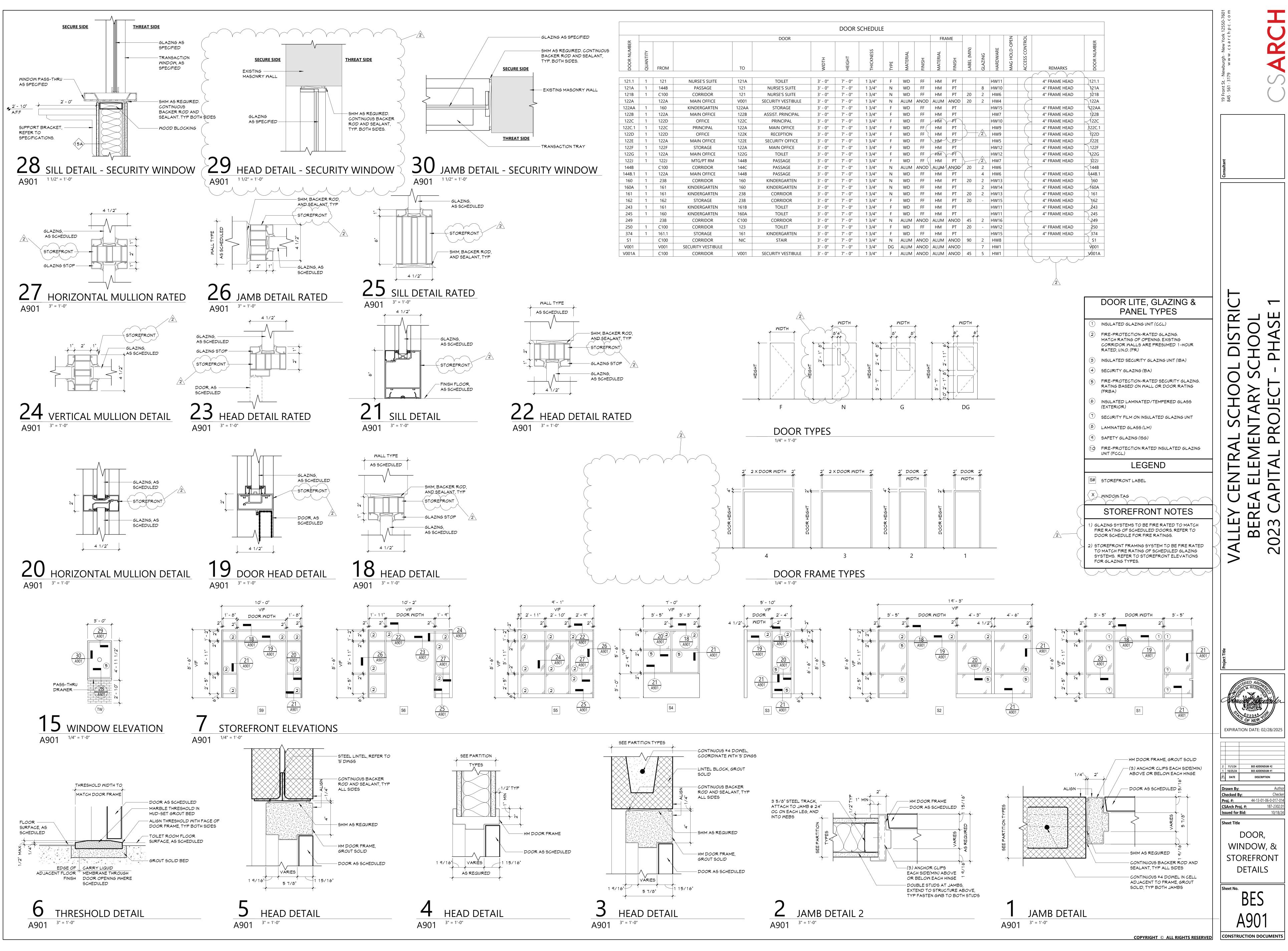


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		ROOM SIGNAGE	SCHEDULE	
ROOM NUMBER	ROOM NAME	SIGNAGE TYPE	QUANTITY	REMARKS
100	FACULTY ROOM	K1	1	FIRST FLOOR
101	FACULTY ROOM	K1	1	FIRST FLOOR
102	LOADING GARAGE	K1	1	FIRST FLOOR
103	BAND	K1	1	FIRST FLOOR
104	PE OFFICE	K1	1	FIRST FLOOR
105 106	COUNSELOR TECH/MATH OFFICE	K1 K1	1	FIRST FLOOR FIRST FLOOR
100	BOOK ROOM	K1 K1	1	FIRST FLOOR
120	KINDERGARTEN	K1	1	FIRST FLOOR
121	NURSE'S SUITE	K1	2	FIRST FLOOR
121A	TOILET	N1	1	FIRST FLOOR
121D	IT CLOSET	K1	1	FIRST FLOOR
122A 122AA	MAIN OFFICE STORAGE	K1 K1	2	FIRST FLOOR FIRST FLOOR
122AA 122B	ASSIST. PRINCIPAL	K1 K1	1	FIRST FLOOR
122C	PRINCIPAL	K1	2	FIRST FLOOR
122D	OFFICE	K1	2	FIRST FLOOR
122E	SECURITY OFFICE	K1	1	FIRST FLOOR
122F	STORAGE	K1	1	FIRST FLOOR
122G	TOILET	N1	1	
122J 123	MTG/PT RM SPECIAL ED	K1 K1	1	FIRST FLOOR FIRST FLOOR
123	TOILET	N1	1	FIRST FLOOR
124	СОРУ	K1	1	FIRST FLOOR
125	SPECIAL ED	K1	1	FIRST FLOOR
126	SPEECH	K1	1	FIRST FLOOR
127	OT/PT	K1	1	FIRST FLOOR
128		K1	3	FIRST FLOOR
129 130	SPECIAL ED RESOURCE	K1 K1	1	FIRST FLOOR FIRST FLOOR
130	ART	K1	1	FIRST FLOOR
132	SPEECH	K1	1	FIRST FLOOR
133	SPECIAL ED	K1	1	FIRST FLOOR
134	SENSORY RM	K1	1	FIRST FLOOR
135	CLASSROOM	K1	1	FIRST FLOOR
136	CONFERENCE	K1	1	FIRST FLOOR
136A 137	STORAGE MUSIC	K1 K1	1	FIRST FLOOR FIRST FLOOR
139	1ST GRADE	K1	1	FIRST FLOOR
140	1ST GRADE	K1	1	FIRST FLOOR
141	1ST GRADE	K1	1	FIRST FLOOR
142	2ND GRADE	K1	1	FIRST FLOOR
143	AIS MATH	K1	1	FIRST FLOOR
144 145	2ND GRADE 2ND GRADE	K1 K1	1	FIRST FLOOR FIRST FLOOR
143	KINDERGARTEN	K1 K1	2	FIRST FLOOR
161	KINDERGARTEN	K1	2	FIRST FLOOR
161.1	STORAGE	K1	1	FIRST FLOOR
162	STORAGE	K1	1	FIRST FLOOR
236	BOOK STORAGE	K1	1	FIRST FLOOR
C100	CAFETERIA	K1	2	FIRST FLOOR
C101 E100	STAGE ELEVATOR VESTIBULE	K1 K1	1	FIRST FLOOR FIRST FLOOR
G100	GYMNASIUM A	K1 K1	2	FIRST FLOOR
G100	GYMNASIUM B	K1	2	FIRST FLOOR
J100	CUSTODIAL	K1		FIRST FLOOR
J101	CUSTODIAL	K1		FIRST FLOOR
J102	CUSTODIAL	K1	1	FIRST FLOOR
J103	CUSTODIAL	K1	1	
J104 K100	CUSTODIAL KITCHEN	K1 K1	1 3	FIRST FLOOR FIRST FLOOR
K100	DISHWASHING	K1 K1	J	FIRST FLOOR
K102	OFFICE	K1	1	FIRST FLOOR
L100	LIBRARY	K1	1	FIRST FLOOR
L101	LIBRARY OFFICE	K1	3	FIRST FLOOR
S100	STORAGE	K1	1	FIRST FLOOR
S101	STORAGE STORAGE	K1	1	
S102 S103	STORAGE	K1 K1	1	FIRST FLOOR FIRST FLOOR
S103	STORAGE	K1 K1	1	FIRST FLOOR
S105	STORAGE	K1	1	FIRST FLOOR
S106	STORAGE	K1	1	FIRST FLOOR
S107	STORAGE	K1	1	FIRST FLOOR
S108	STORAGE	K1	1	FIRST FLOOR
S109	STORAGE	K1	1	FIRST FLOOR
S110 S111	STORAGE STORAGE	K1 K1	1	FIRST FLOOR FIRST FLOOR
S111 S112	STORAGE	K1 K1	1	FIRST FLOOR
T101	GIRLS TOILET	S1	1	FIRST FLOOR
T102	BOYS TOILET	S2	1	FIRST FLOOR
T103	TOILET	N1	1	FIRST FLOOR
V001	SECURITY VESTIBULE	K1	2	FIRST FLOOR

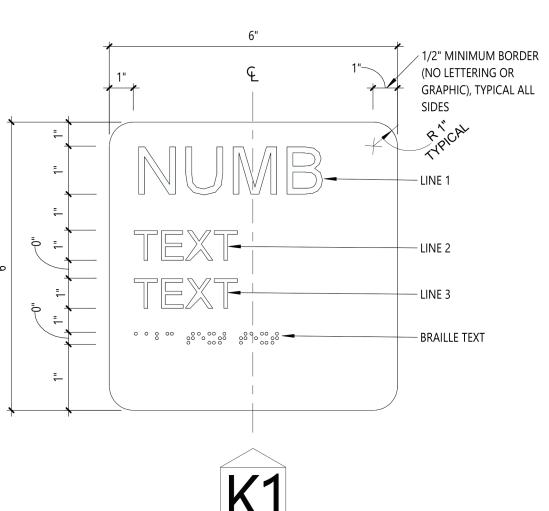
		ROOM SIGNAGE	SCHEDULE	
ROOM NUMBER	ROOM NAME	SIGNAGE TYPE	QUANTITY	REMARKS
202	SPECIAL ED.	K1	1	SECOND FLOOR
203	AIS READING	K1	1	SECOND FLOOR
204	5TH GRADE	K1	1	SECOND FLOOR
205	5TH GRADE	K1	1	SECOND FLOOR
206	5TH GRADE	K1	1	SECOND FLOOR
207	SPECIAL ED.	K1	1	SECOND FLOOR
209	CLASSROOM	К1	1	SECOND FLOOR
216	FACULTY ROOM	K1	1	SECOND FLOOR
218	4TH GRADE	K1	1	SECOND FLOOR
219	4TH GRADE	K1	1	SECOND FLOOR
220	4TH GRADE	K1	1	SECOND FLOOR
221	3RD GRADE	K1	1	SECOND FLOOR
222	3RD GRADE	K1	1	SECOND FLOOR
223	3RD GRADE	K1	1	SECOND FLOOR
224	AIS	K1	1	SECOND FLOOR
E200	ELEVATOR VESTIBULE	К1	1	SECOND FLOOR
S200	STORAGE	К1	1	SECOND FLOOR
S201	STORAGE	K1	1	SECOND FLOOR
S202	STORAGE	K1	1	SECOND FLOOR
T200	TOILET	N1	1	SECOND FLOOR
T201	TOILET	N1	1	SECOND FLOOR
T202	BOYS TOILET	S2	1	SECOND FLOOR
T203	GIRLS TOILET	S1	1	SECOND FLOOR

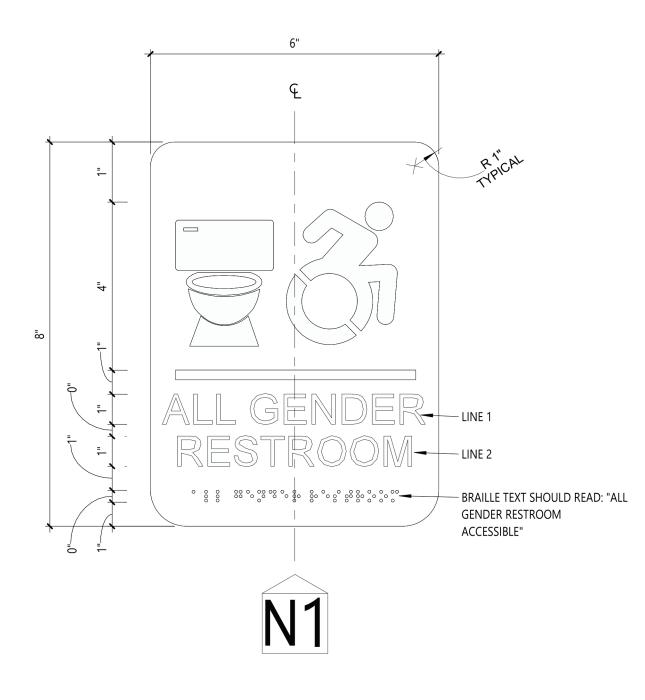
NOTES: 1) REFER TO PANEL SIGNAGE ELEVATIONS FOR SIGNAGE TYPES.

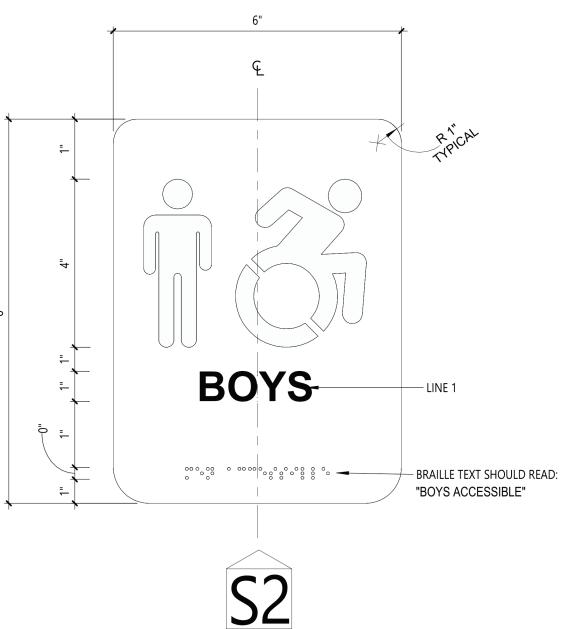
2) REFER TO SPECIFICATION SECTION 101423 - "INTERIOR PANEL SIGNAGE" FOR ADDITIONAL INFORMATION.

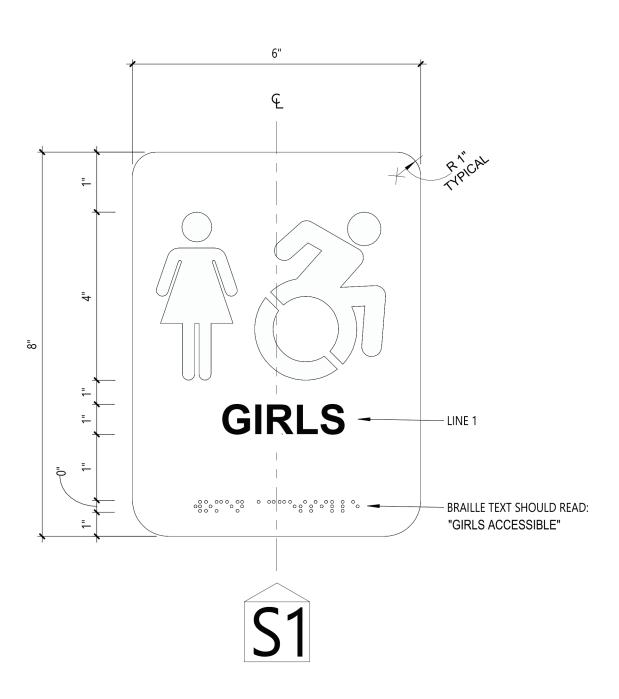
3) ALL EXISTING PANEL SIGNAGE FOR ROOMS NOTED ABOVE SHALL BE REMOVED AND REPLACED WITH NEW. 4) FINAL NUMBERING AND NAMING OF ROOMS TO BE DETERMINED BY OWNER DURING THE SUBMITTAL AND SHOP DRAWING REVIEW.

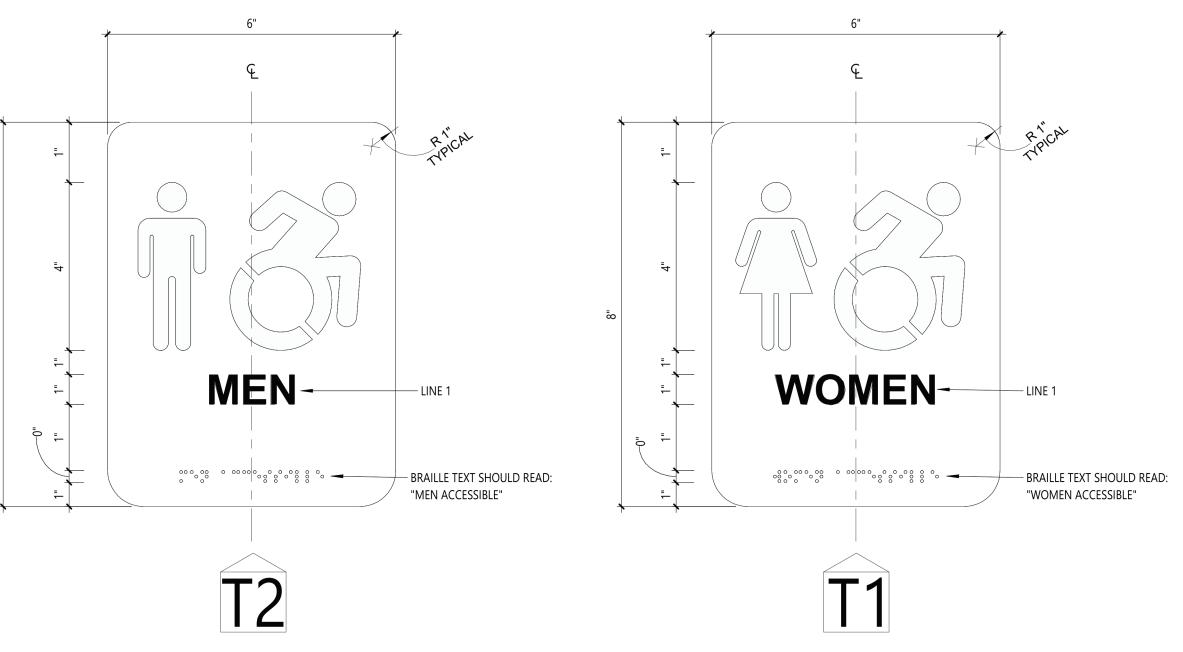
SIDES \_\_\_\_\_ LINE 1 \_ Q — LINE 2 TEXT — LINE 3 5 + ↔ <sup>6</sup>8000 <sup>6</sup>8000 <sup>6</sup>8000 <sup>6</sup>800 <sup>6</sup> K1 6" BOYS-**S**2 6" RICAL ≂↓ ► MEN-<del>,</del> 4 4 **T**2 PANEL SIGNAGE ELEVATIONS AF002 <sup>1/4" = 1'-0"</sup>

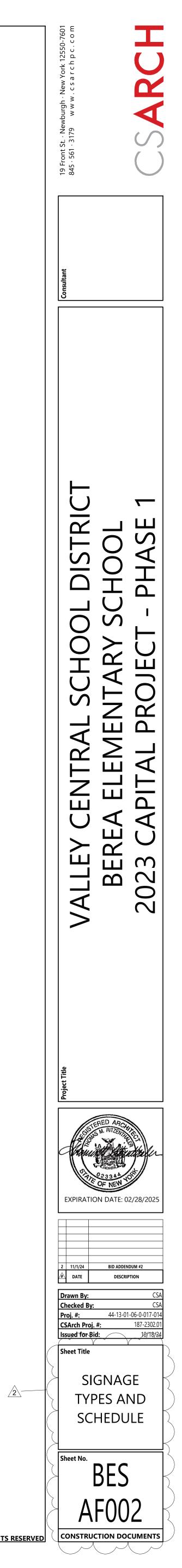












						]	ENF	ERG	Y RE	ECC	OVER	ΥV	VENTI	LATC	OR SCH	HEDU	LE									
			FRESH	EXHAUST	ROO	M EXH	AIR (°F	-) O	UTSIDE A	AIR (°F	<sup>-</sup> ) SU	JPPLY	′ AIR (°F)	RE	COVERY E	FECTIVEN	ESS		ELEC	TRICAL	DATA					
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIR FLOW RATE	AIR FLOW RATE	WIN	TER	SUMME	R WI	NTER S	SUMM	ER WIN	TER	SUMMER	SEN	SIBLE	то	TAL	MO							WEIGHT	NOTES
TAG			(CFM)	(CFM)	DB	WB	DB W	B DB	WB [	ов и	WB DB	WB	DB WB	WINTER	SUMMER	WINTER	SUMMER	W	FLA	VOLT.	PHASE	Hz.		MOCF		
ERV-1	RENEWAIRE	HE07-JRTV-D11AADGNTFL	300	300	70.0	54.4 7	75.0 62	2.6 0.0	-2.0 9	5.0 7	5.0 53.8	44.1	79.4 68.0	76.8%	76.8%	75.1%	59.9%	357 (2)	5.4	120	1	60	12.2	15	218-373	FURNISH W/ MERV 8 FILTERS, ECM MOTOR, DISCONNECT SWITCH, 24" INSULATED ROOF CURE BACKDRAFT DAMPERS;

					D	UCT	ED H	OT WA	ATER	COII	LSCH	IEDU	JLE					
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIRFLOW (CFM)	AIR PRESS. DROP (IN. W.C.)	EFT (°F)	LFT (°F)	CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FPD (FT)	FLOW RATE (GPM)	ROWS	FIN HEIGHT (IN)	FIN LENGTH (IN)	COIL HEIGHT (IN)		OVERALL LENGTH (IN)	NOTES
HWC-1	TRANE	D5WB12012G0AA142EABA00A	300	0.35	180	160	11.78	53.8	90	0.02	1.18	1	12	12	13.5	13.375	26	-

							INI	$\mathbf{D}\mathbf{O}\mathbf{O}$	R MIN	JI-SF	PLIT	UNIT	SCHED	ULE	ł				
EQUIPMENT	MANUFACTURER		MINI-SPLIT UNIT	AREA OF	AIRFLOW		OOLING		Н	EATING	1	PAIRED	EXTERNAL STATIC		ELECT POV	RICAL VER		WEIGHT	
TAG	(OR ACCEPT. EQUAL)	MODEL	TYPE	BUILDING SERVED	(CFM)	CAPACITY (MBH)	(EDB (°F)	EWB (°F)	CAPACITY (MBH)	EDB (°F)	EWB (°F)	OUTDOOR UNIT	PRESSURE (IN. W.C.)		REQUIR	EMENTS	W	(LB)	NOTES
FCU-1	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	NURSE'S SUITE	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-2	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	CONFERENCE ROOM	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-3	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	ASSISTANT PRINCIPAL	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-4	TRANE	TPLFYP012FM140A	CEILING RECESSED UNIT	MAIN OFFICE	335	12	81.0	66.0	13.5	68.0	60.0	HP-1	-	208	1	60	50	31.3	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-5	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	SECURITY OFFICE	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-6	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	OFFICE	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-7	TRANE	TPLFYP012FM140A	CEILING RECESSED UNIT	PRINCIPAL	335	12	81.0	66.0	13.5	68.0	60.0		-	208	1	60	50	31.3	PROVIDE W/ BUILT IN CONDENSATE PUMP

							AIR-COOI	LED	HI	EAT	PUMP S	CHED	ULE						
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	CAPACITY (MBH)	OUTDOOR OPERATING TEMP. RANGE (°F) COOLING HEATING	R	ATING		REFRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING	VOLT. PH	REQUI		NTS		WEIGHT (LB)	NOTES
HP-1	TRANE	TUHYH0723AN40AN	FCU-1 THRU FCU-7	INVERTER SCROLL HEMETIC	72		23 TO 126 -22 TO 60					(dBA) 55/57	208		60	38	60	609	FURNISH W/ REQUIRED PIPING ACCESSORIES

				AI	R GRI	ILLE/DIF	FFUSER	SCHEDULE	T				
EQUIPMENT	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE		W (CFM)	MAX AIR PRESS. DROP (IN. W.C.)		PANEL/FRAME SIZE (IN.)	NECK SIZE (IN.)	MAX NC	DAMPER	FINISH	NOTES
TAG	EQUAL)	-	TYPE	MIN.	MAX.			(114.)	(111.)	NC			
D-1	KRUEGER	PLQ-6-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	50	175	0.10	LAY-IN	24"x24"	6"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
D-2	KRUEGER	PLQ-8-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	176	300	0.10	LAY-IN	24"x24"	8"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
R-1	KRUEGER	S80P-20x20-F23-24x24-00-00-00-44	PERFORATED FACE RETURN GRILLE	0	1,600	0.10	LAY-IN	24"x24"	20"x20"	25	-	WHITE	FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX ON REAR OF GRILLE, PAINT INSIDE FLAT BLACK

							FIN	NNED 7	TUBE S	CHED	ULE			
EQUIPN TAC		MODEL	AVG WATER TEMP (°F)	BTU/FT	ELEMENT TUBE SIZE (IN)	ELEMENT TUBE MATERIAL	ELEMENT FIN SIZE (IN)	FINS PER FT	ACTIVE FIN LENGTH	ROW QUANTITY	ENCLOSURE MATERIAL	FINISH	COLOR	NOTES
FT-	1 STERLING	JVB-S 24	150	860	3/4	COPPER	4-1/4 X 3-5/8	40	(2) 7FT SECTIONS	1	16 GAUGE STEEL	STANDARD PRIME FINISH		PROVIDE W/ REMOVE 12" ACCESS PANEL AT EACH END PROVIDE W/ FULL SIZE BACK PLATE AND MOUNTING BRACKETS

					FAN	SCHEDU	LE					
EQUIPMENT	MANUFACTURER	MODEL	SERVICE	FAN	R.P.M.	EXTERNAL STATIC PRESSURE		M	OTOR	I		REMARKS
TAG				C.F.M.		INCH H <sub>2</sub> O	POWER (HP)	FLA	VOLT.	PHASE	HZ.	
EF-1	GREENHECK	G-133-VG	CLASSROOM	500 (1,500)	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-2	GREENHECK	G-133-VG	CLASSROOM	500 (1,500)	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-3	GREENHECK	G-090-VG	TOILET ROOM	150	1,336	0.25	1/4	2.6	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER

					V	'ENTII	LATIO	N SCHEI	DULE						
SYSTEM	SPACE SERVED	SPACE TYPE	SPACE AREA (SQ. FT.)	OCCUPANTS PER 1000 SQ. FT.	# OF OCCUPANTS (NOTE 1)	CFM PER PERSON	CFM PER SQ. FT.	CALCULATED VENTILATION RATE (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ADJUSTED VENTILATION RATE (CFM)	PROVIDED VENTILATION RATE (CFM)	EA CFM PER FIXTURE	EA CFM PER SQ. FT.	MIN. EA RATE (CFM)	EA PROVIDED (CFM)
	NURSE'S SUITE 121	OFFICE/ SICKROOM	435	10	5	10	0.18	128	0.8	160	160	-	-	-	-
	MGT/PT ROOM 122J	CONFERENCE ROOM	194	10	50	5	0.06	62	0.8	77	80	-	-	-	-
	ASSISSTENT PRINCIPAL'S 122E	3 OFFICE	204	5	2	5	0.06	22	0.8	28	30	-	-	-	-
ERV-1	MAIN OFFICE 122A	RECEPTION AREA	522	30	16	5	0.06	111	0.8	139	140	-	-	-	-
	SECURITY OFFICE 122E	OFFICE	73	5	1	5	0.06	9	0.8	12	15	-	-	-	-
	OFFICE 122D	OFFICE	114	5	1	5	0.06	12	0.8	15	15	-	-	-	-
	PRINCIPAL'S OFFICE 122C	OFFICE	266	5	2	5	0.06	26	0.8	32	35	-	-	-	-
	KINDERGARTEN 160	CLASSROOM (AGES 5-8)	876	25	30	10	0.12	325	0.8	507	510	-	-	-	-
EXISTING	KINDERGARTEN 161	CLASSROOM (AGES 5-8)	872	25	30	10	0.12	325	0.8	507	510	-	-	-	-
RTU	COUNSELOR	OFFICE	198	5	1	5	0.06	17	0.8	21	25	-	-	-	-
	COPY ROOM	COPY, PRINTING	299	4	2	5	0.06	28	0.8	35	35	-	-	-	-

NOTES: 1. QUANTITY OF OCCUPANTS FOR STANDARD CLASSROOMS ARE 25 TO 30 OCCUPANTS BASED ON NYSED STATISTICAL DATA. ALL OTHER OCCUPANCIES ARE BASED UPON OCCUPANT DENSITIES FROM THE 2015 INTERNATIONAL MECHANICAL CODE

									HY	DRONIC R	EHEAT C	OIL				
EQUIPMENT TAG	MANUFACTURER	MODEL	MAXIMUM PRIMARY CFM	MINIMUM PRIMARY CFM	SENSOR SP IN. W.C.	HEAT CFM	EAT DEG F	LAT DEG F	CAPACITY MBH	EWT DEG F	LWT DEG F	COIL APD FT. W.G.	WATER GPM	COIL ROWS	WPD FT. W.G.	NOTES
VAV-1	KRUEGER	LMHS	1,500	510	-	1,125	55	90	42.5	180	160	0.23	4.0	2	1.17	1 - 4
VAV-2	KRUEGER	LMHS	1,500	510	-	1,125	55	90	42.5	180	160	0.23	4.0	2	1.17	1 - 4

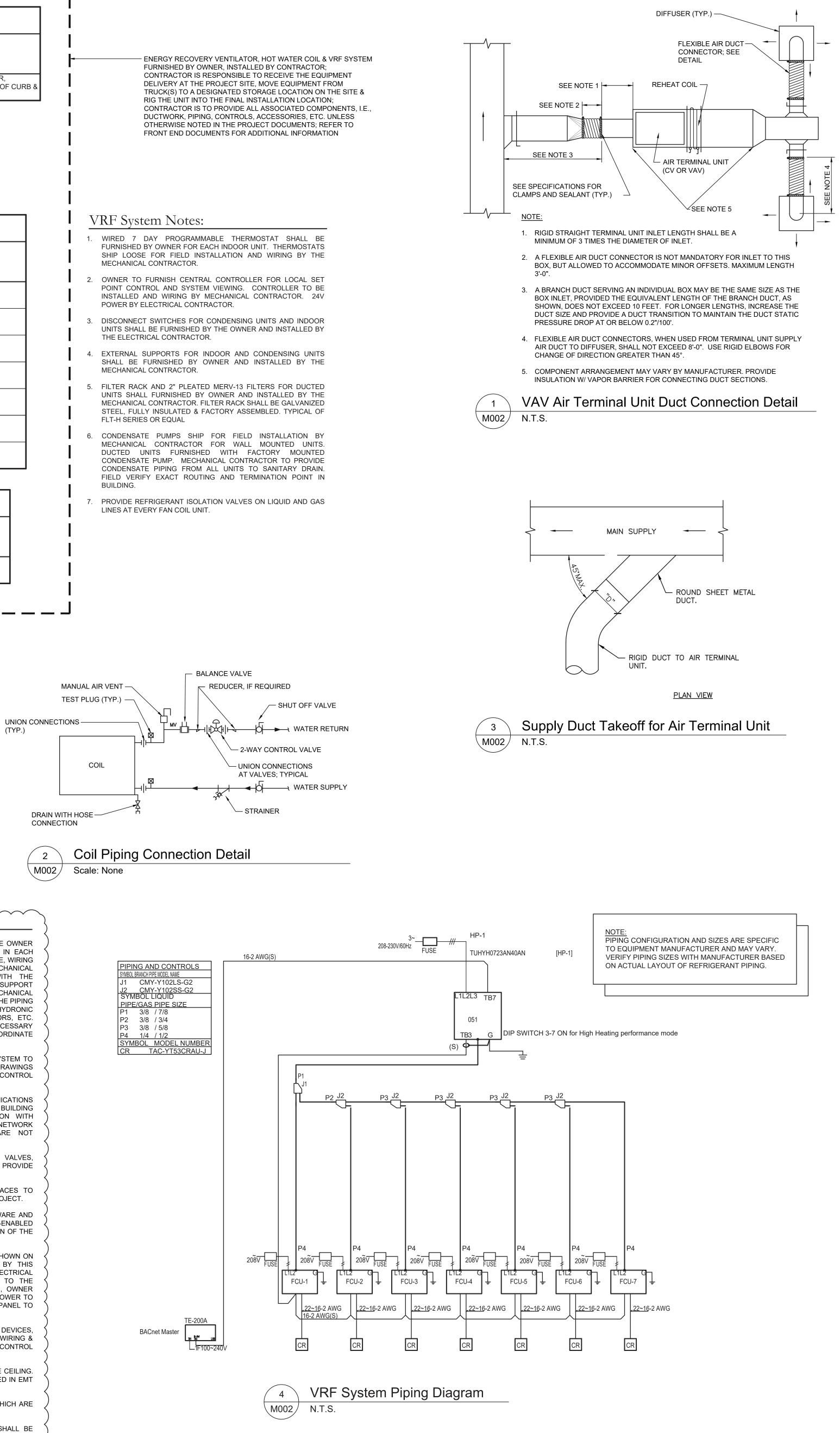
4. PROVIDE W/ FACTORY INSTALLED TOGGLE DISCONNECT SWITCH

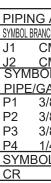
# DDC Temperature Control Notes:

1. HVAC CONTROLS SHALL BE FURNISHED & INSTALLED BY THE OWNER TO MATCH THE EXISTING BUILDING AUTOMATION SYSTEM IN EACH BUILDING (SIEMENS AT BEREA ELEMENTARY). ALL HARDWARE, WIRING AND PROGRAMMING TO BE PROVIDED BY OWNER. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDOR THROUGHOUT THE PROJECT TO SUPPORT INSTALLATION, TESTING AND COMMISSIONING. MECHANICAL CONTRACTOR TO INSTALL ALL DEVICES MOUNTED IN OR ON THE PIPING AND/OR DUCTWORK INCLUDING BUT NOT LIMITED TO HYDRONIC CONTROL VALVES, TEMPERATURE SENSORS, FLOW SENSORS, ETC. MECHANICAL CONTRACTOR TO PROVIDE ALL NECESSARY PORTS/THERMOWELLS FOR SENSORS, GAUGES, ETC. COORDINATE WITH OWNER'S VENDOR FOR QUANTITY AND LOCATIONS.

(TYP.)

- 2. OWNER SHALL EXPAND EXISTING BUILDING AUTOMATION SYSTEM TO PROVIDE THE CONTROL SEQUENCES SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. THE SYSTEM SHALL PROVIDE CONTROL AND MONITORING OF THE EQUIPMENT INDICATED.
- 3. OWNER SHALL PROVIDE CONTROLLERS AND COMMUNICATIONS INFRASTRUCTURE TO MATCH EXISTING CAMPUS-WIDE BUILDING AUTOMATION SYSTEM. PROVIDE SEAMLESS INTEGRATION WITH EXISTING CONTROL NETWORK AND USER INTERFACES. NETWORK GATEWAYS AND PROTOCOL INTERFACE EQUIPMENT ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
- 4. OWNER SHALL PROVIDE INSTRUMENTATION, SENSORS, VALVES, DAMPERS, ACTUATORS AND WIRING AS REQUIRED TO PROVIDE SPECIFIED OPERATING SEQUENCES.
- 5. OWNER SHALL MODIFY EXISTING GRAPHIC USER INTERFACES TO INCLUDE ALL EQUIPMENT AND SYSTEMS INCLUDED IN THIS PROJECT.
- 6. OWNER SHALL REPLACE THE EXISTING BAS SERVER HARDWARE AND UPGRADE THE SOFTWARE TO THE LATEST VERSION OF WEB-ENABLED GRAPHICAL USER INTERFACE WITH A SEAMLESS INTEGRATION OF THE NEW AND EXISTING CONTROL POINTS.
- 7. OWNER SHALL BE RESPONSIBLE FOR POWER THAT IS NOT SHOWN ON THE ELECTRICAL DRAWINGS, TO CONTROLS FURNISHED BY THIS CONTRACTOR. IF POWER CIRCUITS ARE SHOWN ON THE ELECTRICAL DRAWINGS, OWNER SHALL CONTINUE THE POWER RUN TO THE CONTROL DEVICE. IF POWER CIRCUITS ARE NOT SHOWN, OWNER SHALL PROVIDE BREAKERS AT DISTRIBUTION PANELS FOR POWER TO CONTROLS AND PROVIDE POWER FROM THE DISTRIBUTION PANEL TO THE CONTROL DEVICES.
- 8. OWNER SHALL FURNISH & INSTALL ALL REQUIRED END DEVICES, POWER SUPPLY, LOW VOLTAGE TRANSFORMERS, CONTROL WIRING & CONDUITS, ETC. FOR A COMPLETE & OPERATIONAL DDC CONTROL SYSTEM.
- 9. NEW WIRING & CONDUITS SHALL BE RUN CONCEALED ABOVE CEILING. ALL EXPOSED WIRING & CONDUITS SHALL BE RUN CONCEALED IN EMT IN UTILITY SPACES AND WIREMOLD IN FINISHED AREAS.
- 10. OWNER TO FIELD INSTALL SENSORS, CONTROLLERS, ETC. WHICH ARE NOT FACTORY-INSTALLED BY EQUIPMENT MANUFACTURERS.
- 11. ANY EQUIPMENT FURNISHED WITH FACTORY CONTROLS SHALL BE PROVIDED WITH BACNET MSTP INTEGRATION CAPABILITIES AND INCLUDE ON-SITE FACTORY CONTROLS INTEGRATION START-UP IN COORDINATION WITH OWNER'S BUILDING AUTOMATION SYSTEM. ·····





CONSTRUCTION DOCUMENTS



	LIGHTING FIXTURE SCHEDULE									
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
A		HE WILLIAMS RECESSED DIRECT/INDIRECT DIG-S22-L32/840-AD-DIM-UNV	LED	120	1	25.8	25.8	RECESSED	2'x2'	4000K COLOR TEMPERATURE
B-EM	D <sub>B-EM</sub>	HE WILLIAMS VOLTAIRE ARCHITECTURAL WALL PACK VWPH-L30/740-T3-DBZ-SDGL-EM/10WC-DIM-UNV	LED	120	1	36	36	SURFACE WALL MOUNT	12"x12"	VANDAL RESISTANT; 4000K COLOR TEMPERATURE; W/ LED EMERGENCY 90 MINUTE LOW TEMPERATURE BATTERY BACKUP; UL 924 LISTED FIXTURE
с	Oc	HE WILLIAMS 6" LED DOWNLIGHT - ROUND 6DR-TL-L15/840-DIM-UNV-LW-OF-WH-R	LED	120	1	13.8	13.8	RECESSED	6"Ø	4000K COLOR TEMPERATURE; REMODEL KIT
-	$\square$	HE WILLIAMS LED EMERGENCY LIGHT EMER/LED-WHT-SDT-D	LED	120	2	1.0	2.0	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP
-	$\partial \Theta$	HE WILLIAMS LED EXIT & EMERGENCY LIGHT EXIT/EM/LED-R-WHT-RC-SDT-D	LED	120	2	1.5	3.4	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP; PROVIDE W/ REMOTE HEAD MODEL WETRHL-T-WHT-HL-MV
-	$\bigotimes$	HE WILLIAMS LED EXIT LIGHT EXIT-R-EM-WHT-SDT-D	LED	120	1	3.8	3.8	UNIVERSAL	-	90-MINUTE BATTERY BACKUP

120/208V 3Ø 4W+G				BU	S RATIN	G: 225A				ML
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
EXISTING LOAD	EXISTING WIRING	20	1	· /	1		2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3		•		4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	5			•	6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	•	1		8	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	9		•	1	10	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	11			•	12	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	13	•	1		14	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	15	Ĩ	•	1	16	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	17			•	18	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	19	•	1	Í	20	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	21	Ĩ	•	1	22	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	23		Í	•	24	20	EXISTING WIRING	EXISTING LOAD
ACCESS CONTROL	(2) #12 CU & (1) #12 GND.	20	25	•	1		26	20	(2) #12 CU & (1) #12 GND.	BATHROOM RECEPTACLES
DOOR OPERATORS	(2) #12 CU & (1) #12 GND.	20	27				28	20	(2) #12 CU & (1) #12 GND.	WATER FOUNTAIN
REFRIGERATOR	(2) #12 CU & (1) #12 GND.	20	29			•	30	20	(2) #12 CU & (1) #12 GND.	KITCHEN RECEPTACLES
SPARE	-	20	31	· /		ľ	32	20	-	SPARE
SPARE	-	20	33	ľ	•		34	20	-	SPARE
SPARE	-	20	35			· / .	36	20	(2) #12 CU & (1) #12 GND.	KITCHEN RECEPTACLES
KITCHEN RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	37				38	20	-	SPARE
EXHAUST FANS	(2) #12 CU & (1) #12 GND.	20	39	ſ	•	1	40	20	(2) #12 CU & (1) #12 GND.	BATHROOM RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	41		<b>F</b>	· /	42	20	(2) #12 CU & (1) #12 GND.	VAV BOXES
EXISTING PANEL	EXISTING PANEL			· ·	-	-	-	kVA T	OTAL	
					-	-			DE NEW CIRCUIT BREAKERS IITS; BREAKERS SHALL MATC	FOR ALL NEW OR MODIFIED

RATING PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT

LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

Panelboard C Section 1 E001 / Scale: None

120/208V 3Ø 4W+G				BU	S RATIN	G: 200A				200A MAIN CIRCUIT BREAK
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
EXISTING LOAD	EXISTING WIRING	20	1				2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3	ſ	•	1	4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	5				6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	· /		Í	8	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	9		•		10	20	EXISTING WIRING	EXISTING LOAD
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	11		Í	· /	12	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	13	· /			14	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	15	<b></b>	•		16	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	17		r	·	18	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	19	· /			20	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	21	ſ	•		22	-	-	SPACE
SPACE	-	-	23			•	24	-	-	SPACE
SPACE	-	-	25	•		Í –	26	-	-	SPACE
SPACE	-	-	27	ĺ	•	1	28	-	-	SPACE
SPACE	-	-	29			· /	30	-	-	SPACE
SPACE	-	-	31	· /			32	-	-	SPACE
SPACE	-	-	33	ř –	·		34	-	=	SPACE
SPACE	-	-	35		ľ	· /.	36	-	-	SPACE
SPACE	-	-	37	· /.		ľ	38	-	-	SPACE
SPACE	-	-	39	ľ	· /	1	40	-	-	SPACE
SPACE	-	-	41		ľ	· /	42	-	-	SPACE
EXISTING SIEMENS S1 P	ANEL			-	-	- -	-	kVA T	OTAL	



### Existing Panelboard CP-2 Scale: None

 PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

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$\boxtimes \!$	HORN/STROBE DEVICE, ONE ASSEMBLY; MTD. 80" A. OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWI
$\boxtimes$	STROBE DEVICE; MTD. 80" A.F.F. UNLESS OTHERWIS CANDELA UNLESS OTHERWISE NOTED
$\langle \rangle$	MANUAL PULL STATION; MTD. 48" A.F.F.
	WATER FLOW SWITCH
	VALVE TAMPER SWITCH
Øx	DETECTOR; LETTER INDICATES AS FOLLOWS: BLANK = SMOKE DETECTOR P = PHOTOELECTRIC SMOKE M = MULTIPLE STATION SMOKE ALARM D = PHOTOELECTRIC DUCT SMOKE DETECTOR FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DA
$(H)_{R}$	RATE OF RISE HEAT DETECTOR, 135°F
CO	CARBON MONOXIDE DETECTOR; MTD. 60" A.F.F.
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
RTS	REMOTE TEST SWITCH & LED FOR DUCT SMOKE DE
R	FIRE ALARM RELAY
SECU	JRITY LEGEND:
PB	PANIC BUTTON - 18/4 SHIELDED
IC	INTERCOM
DR	DOOR RELEASE BUTTON - 16/2 SHIELDED
WS	WORKSTATION FOR CARD ACCESS & VIDEO SYSTEM
CR	CARD READER - 22/6 SHIELDED
REX	REQUEST TO EXIT - 18/4 SHIELDED
DC	MAGNETIC DOOR CONTACT - 16/2 SHIELDED

EL ELECTRIC LOCK - 16/2 SHIELDED

120/208V 3Ø 4W+G	_	BUS	S RATIN	MLG						
CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOA
EXISTING LOAD	EXISTING WIRING	20	1	•			2	20	EXISTING WIRING	EXISTING LOA
EXISTING LOAD	EXISTING WIRING	20	3		·		4	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	5		r	· /	6	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	7	• /.		ľ	8	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	9		· /		10	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	11			•	12	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	13	•		r	14	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	15		•		16	20	EXISTING WIRING	EXISTING LOA
EXISTING LOAD	EXISTING WIRING	20	17			•	18	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	19	•		r	20	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	21	ľ	•	1	22	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	23			•	24	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	25	•		ľ	26	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	27	ľ	•	1	28	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	29				30	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	31	• /.		ľ	32	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	33	ſ	•	1	34	20	EXISTING WIRING	EXISTING LOAI
EXISTING LOAD	EXISTING WIRING	20	35				36	20	EXISTING WIRING	EXISTING LOA
FAN COILS	(2) #12 CU & (1) #12 GND.	20	37 39	·	·		38 40	60	(3) #4 CU & (1) #8 GND.	HEAT PUMP HP-
ERV-1	(2) #12 CU & (1) #12 GND.	20	41		ľ	· /	42			
EXISTING PANEL		•		KVA TOTAL						

E001

Panelboard C Section 2 Scale: None

 PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING

• PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

	ELEC	CTRICAL LEGEND:
D. 80" A.F.F. UNLESS THERWISE NOTED	$\bigotimes$	MOTOR
	Ţ	EARTH GROUND
HERWISE NOTED; 15	0	JUNCTION BOX
	Ē	EMERGENCY POWER OFF BUTTON
		FUSE WITH RATING
	$\bigcirc$	MOLDED CASE CIRCUIT BREAKER
	42	DISCONNECT SWITCH, FUSED
S:	4	DISCONNECT SWITCH, UNFUSED
	4	STARTER, COMBINATION WITH DISCONNECT SWITCH
OR		STARTER OR MOTOR CONTROLLER
MOKE DAMPER	M	METER
	0	20A 120V DUPLEX CEILING MOUNTED RECEPTACLE
F.F.	÷	20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED
EL	#	20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	#	20A 120V QUADRAPLEX RECEPTACLE
OKE DETECTORS	-0	WALL MOUNTED SPECIAL PURPOSE RECEPTACLE
	€USB	20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL
	<b>₽</b> F	FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE; FLUSH MOUNTED
	¢ ₹	FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
	₽	FLOOR MOUNTED BOX W/ QUAD RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
SYSTEM	$\Sigma^{W}$	WALL PHONE OUTLET MTD. 48" A.F.F.; 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 1 PORT ETHERNET WALL PLATE; PROVIDE (1) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
	$\diamond$	WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD
	V	TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 2 PORT ETHERNET WALL PLATE; PROVIDE (2) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
	ŧ	BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS; ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
	\$2	SWITCHBLANK = SINGLE POLE2 = DOUBLE POLE3 = THREE-WAY4 = FOUR-WAYD = DIMMERK = KEY OPERATEDP = WITH PILOT LIGHTPB= PUSH BUTTONT = TIMER OPERATEDWP= WEATHER PROOFX = EXPLOSION PROOFOC= OCCUPANCY SENSOR
	OS	DUAL TECHNOLOGY OCCUPANCY SENSOR
	DS	DAYLIGHT SENSOR
	MM	MULTIMEDIA BOX. PROVIDE DEVICE BOX AT 60" ABOVE FINISHED FLOOR WITH (2) DUPLEX RECEPTACLES & (2) CAT6E PORTS. PROVIDE FACEPLATES AND (2) 1-1/4" CONDUITS STUBBED ABOVE CEILING, (1) W/ CAT6E CABLES RUN TO NEAREST IT CLOSET & (1) W/ PULL CORD FOR FUTURE HDMI. RECESS MOUNT BOX TYPICAL OF WIREMOLD EVOLUTION SERIES WITH CONCEALED CONDUITS IN EXISTING FRAMED WALLS AND ALL NEW WALLS. PROVIDE SURFACE MOUNT BOXES WITH DUAL CHANNEL SURFACE MOUNT RACEWAY (LEGRAND WIREMOLD 5400 SERIES) WHERE INSTALLED ON EXISTING MASONRY WALLS.
	(WAP)	WIRELESS ACCESS POINT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE AT CEILING DEVICE & RUN CABLING TO NEAREST DATA CLOSET
$\langle$	Ċjs	COMBINATION WALL MOUNTED CLOCK/SPEAKER UNIT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE TO DEVICE & RUN CABLING TO NEAREST DATA CLOSET

DEVICE & RUN CABLING TO NEAREST DATA CLOSET

## ELECTRICAL NOTES:

- 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- 4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- 6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- 7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- 8. EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
- 9. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- 10. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
- 11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- 12. ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
- 13. LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS. 14. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL
- DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
- 15. FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
- 16. MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.
- 17. ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- 18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- 19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

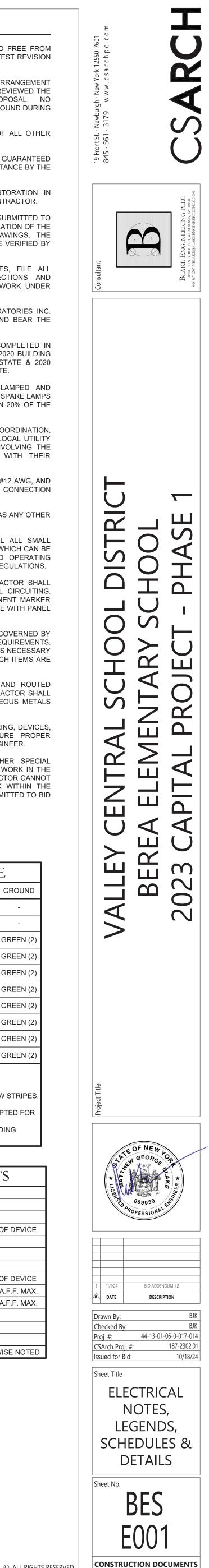
	WII	RE CO	LOR	COD	ING	TABL	E
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	Ģ
1	2 (1)	120	BLACK	-	-	WHITE	
1	2 (1)	208	BLACK	RED	-	-	
1	3	120	BLACK	-	-	WHITE	G
1	3	208	BLACK	RED	-	-	G
3	4	208	BLACK	RED	BLUE	-	G
3	5	208	BLACK	RED	BLUE	WHITE	G
1	3	277	BROWN	-	-	GRAY	G
1	3	480	BROWN	ORANGE	-	-	G
3	4	480	BROWN	ORANGE	YELLOW	-	G
3	5	480	BROWN	ORANGE	YELLOW	GRAY	G

OTES: FOR DOUBLE INSULATED EQUIPMENT ONLY. GREEN/YELLOW MAY BE USED:

- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES. - GREEN = 50 TO 70%, YELLOW = 50 TO 30%.

- GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR. - GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

DEVICE MOUNTING	G HEIGHTS				
POWER RECEPTACLES (INTERIOR)	18" A.F.F.				
POWER RECEPTACLES (EXTERIOR)	36" A.F.G.				
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.				
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE				
DISCONNECT SWITCHES	SEE NEC 404.8(A)				
TELEPHONE/DATA RECEPTACLES	18" A.F.F.				
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.				
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE				
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.				
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.				
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR				
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.				
TV & A/V OUTLETS	18" A.F.F.				
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED					





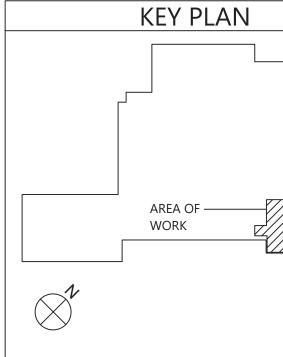
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 Electrical Plan 

 E111
 Scale: 1/4" = 1'-0"

Key Notes:

XUY I	NOICS.
1	ADA DOOR OPERATORS PROVIDED BY GC; EC TO PROV 120V LINE VOLTAGE POWER TO OPERATOR & CONTROL GC TO PROVIDE ALL LOW VOLTAGE CONTROLS
2	PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIR
3	FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON AC OF FIRE ALARM
4	REINSTALL EXISTING WIRELESS ACCESS POINT; CONNE EXISTING DATA CABLING
5	EXISTING FIRE ALARM GRAPHIC DISPLAY TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VE
6	EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL IN A NEW LOCATION AFTER COMPLETION OF VESTIBULE, RELOCATE/EXTEND WIRIN CONDUIT AS NEEDED
7)	EXISTING RESCUE ASSISTANCE PANEL TO REMAIN; TEM REMOVE, PROTECT & STORE DURING CONSTRUCTION; IN A NEW LOCATION AFTER COMPLETION OF VESTIBULE RELOCATE/EXTEND WIRING & CONDUIT AS NEEDED

8 PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM



### OVIDE ALL DL DEVICES;

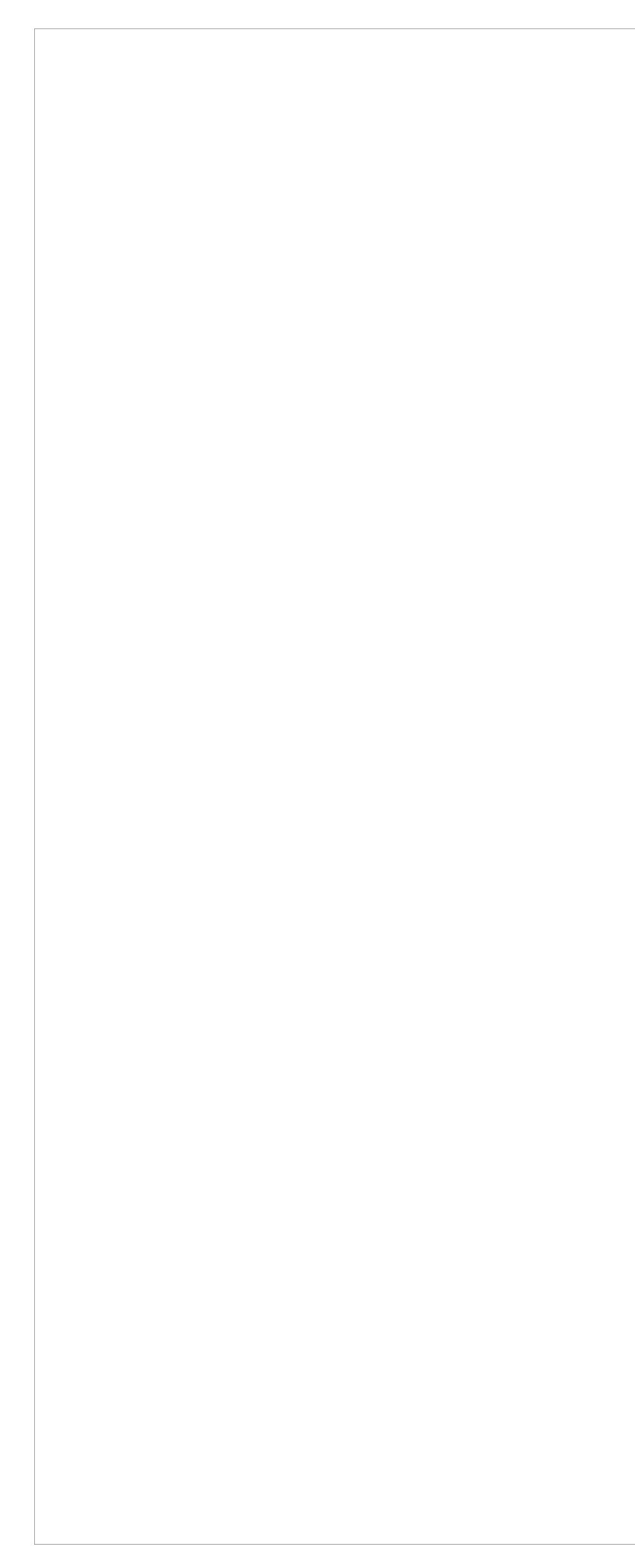
IRE SHUTTER

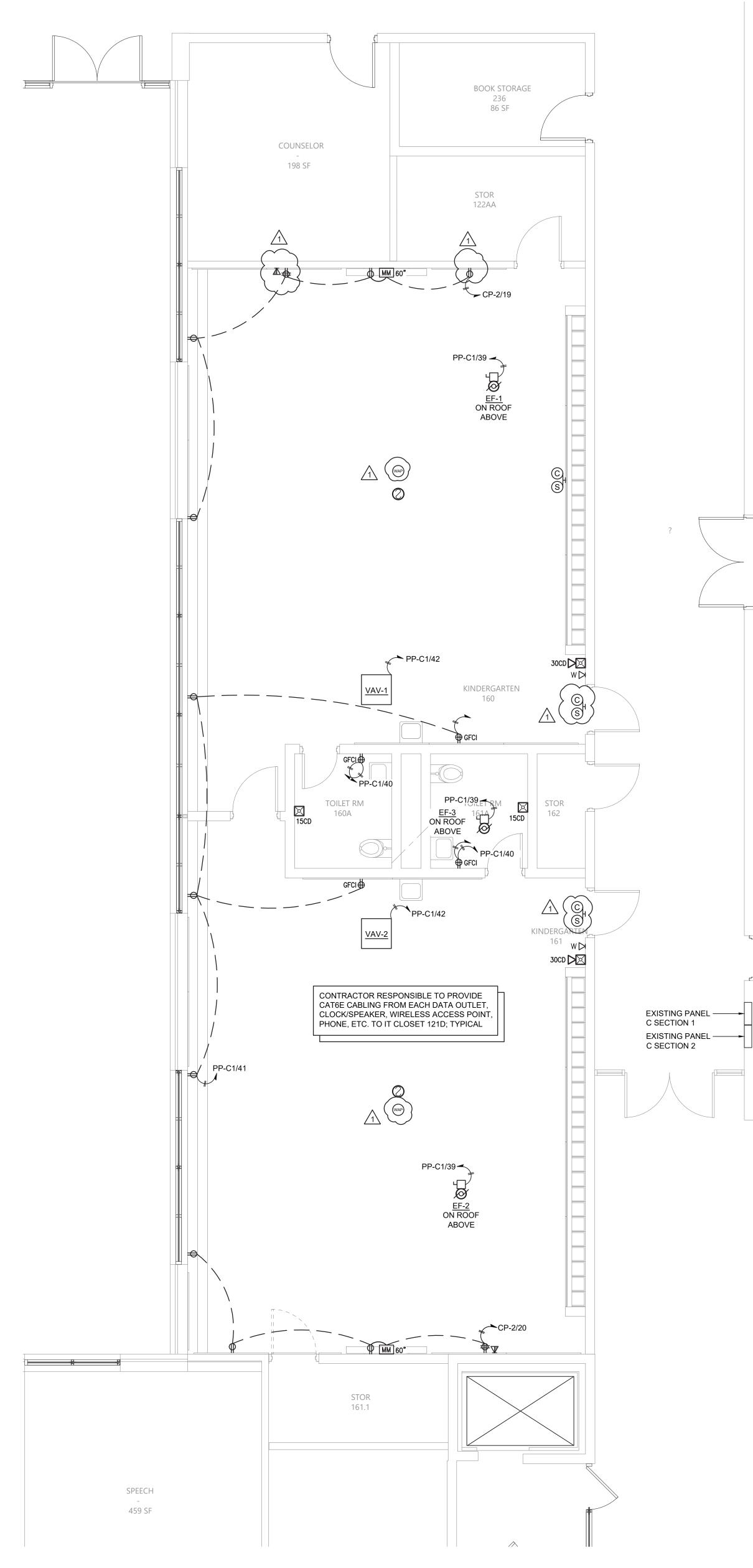
INECT TO

VESTIBULE AIN; ER IING &

EMPORARILY N; REINSTALL ILE,





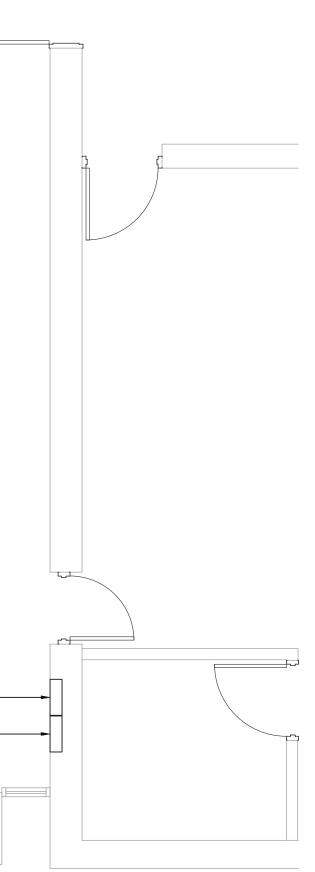


Electrical Plan - Part 2

E112 Scale: 1/4" = 1'-0"



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