VALLEY CENTRAL SCHOOL DISTRICT MAYBROOK ALTERNATIVE LEARNING CENTER 2023 CAPITAL PROJECT - PHASE 1

ISSUED FOR BID: 10/18/24

SARCH - 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 1 44-13-01-06-0-002-013 THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 187-2302.01



VICINITY MAP



NTS

-Maybrook Alternative Learning Center

141 Union St.

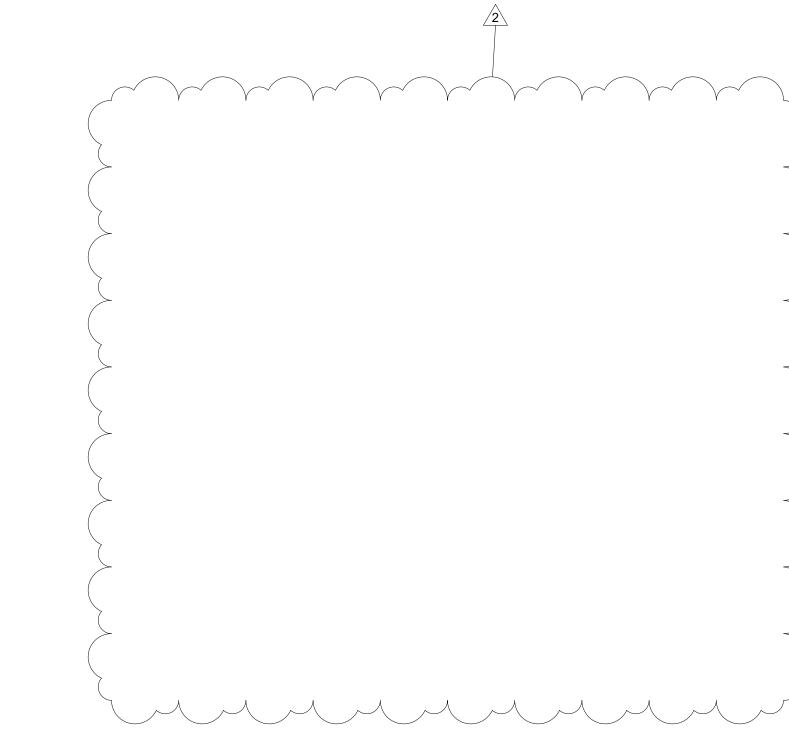
Montgomery, NY 12549

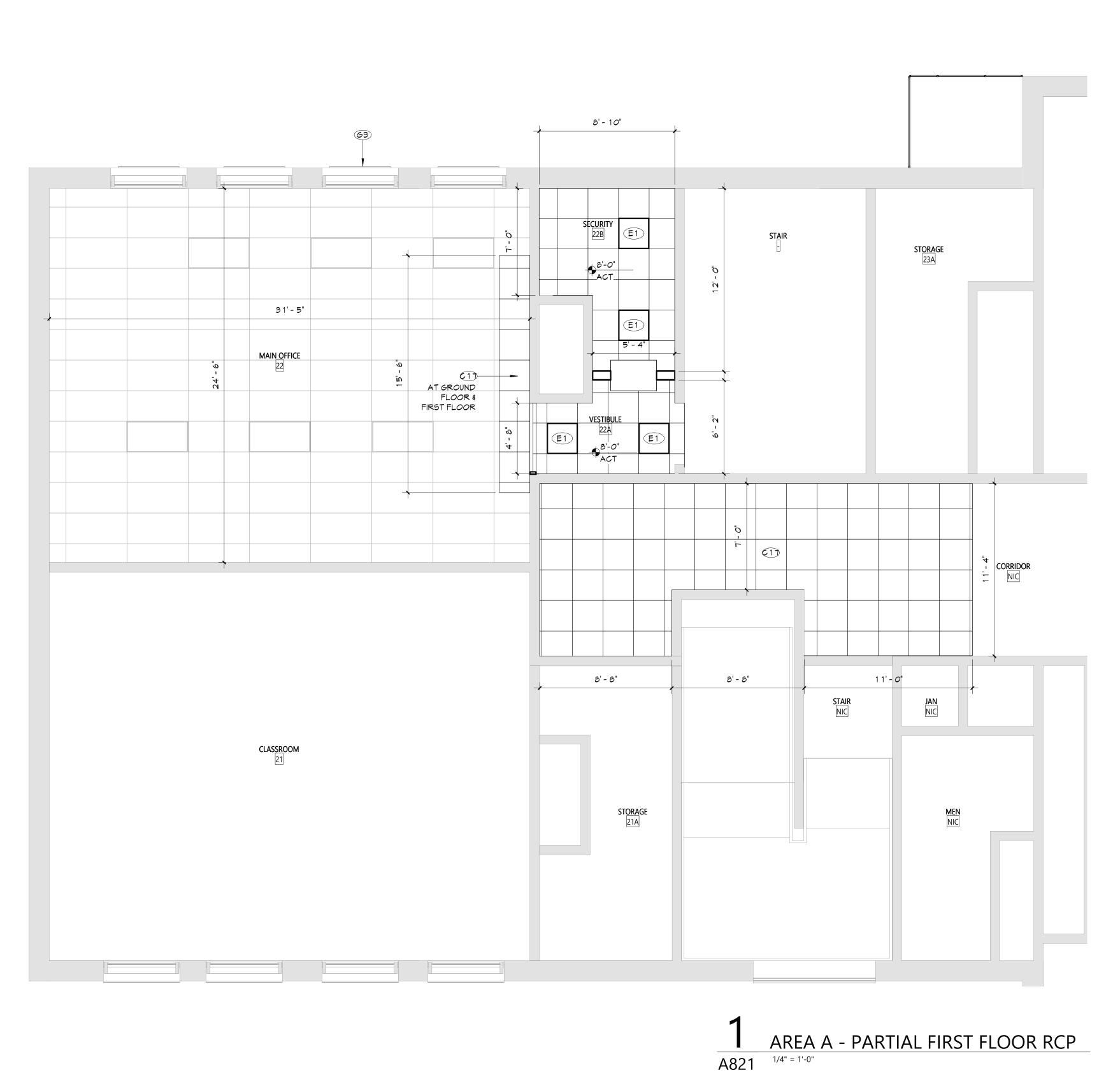
		DRAWING LIST
	GENERAL DR	AWINGS
	MAY G000	COVER & SHEET INDEX
		SYMBOLS, ABBREVIATIONS, MISC, AND PARTITION TYPES
	MAY G111	OVERALL FLOOR PLAN - FIRST FLOOR
	LIFE SAFETY [DRAWINGS
	MAY LS111	LIFE SAFETY PLAN - FIRST FLOOR
	MAY LS112	SMOKE ZONE PLANS
	ARCHITECTU	RAL DEMOLITION DRAWINGS
	MAY AD121	ENLARGED REMOVAL PLAN - FIRST FLOOR - AREA A
	MAY AD821	REFLECTED CEILING REMOVAL PLAN - FIRST FLOOR - AREA A
	ARCHITECTU	RAL DRAWINGS
	MAY A121	ENLARGED FLOOR PLAN - FIRST FLOOR - AREA A
	MAY A821	
	MAY A901	DOOR & WINDOW DETAILS
	ARCHITECTU	RAL FINISH DRAWINGS
2		
	MAY AF121	MATERIAL SCHEDULE & FINISH FLOOR PLAN - AREA A
	FURNITURE D	DRAWINGS
	MAY FE121	PARTIAL FLOOR FURNITURE PLAN - FIRST FLOOR - AREA A
	MECHANICAI	L GENERAL DRAWINGS
	MAY M001	MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS
	MECHANICAI	L DEMOLITION DRAWINGS
	MAY MD111	MECHANICAL DEMOLITION PLAN
	MECHANICAI	DRAWINGS
	MAY M111	MECHANICAL PLAN
		SENERAL DRAWINGS
	MAY E001	ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS
		DEMOLITION DRAWINGS
	MAY ED111	ELECTRICAL DEMOLITION PLAN
	ELECTRICAL D	DRAWINGS
	ΜΔΥ F111	ELECTRICAL PLAN

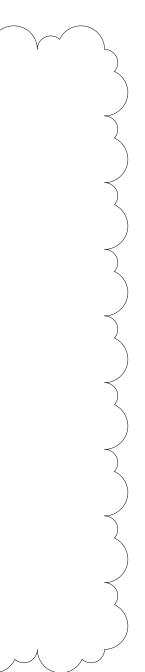


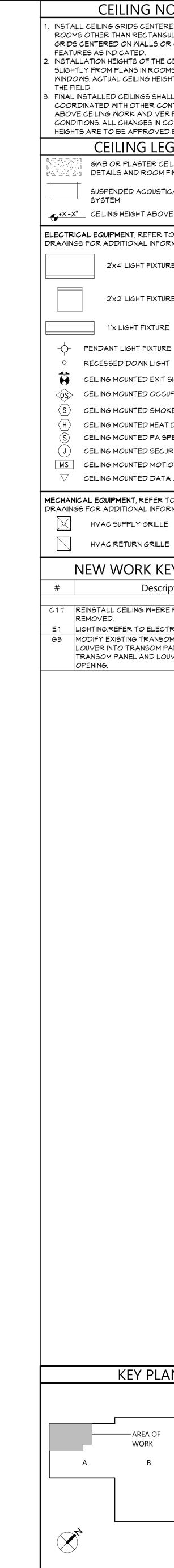
EXPIRATION DATE: 02/28/2025



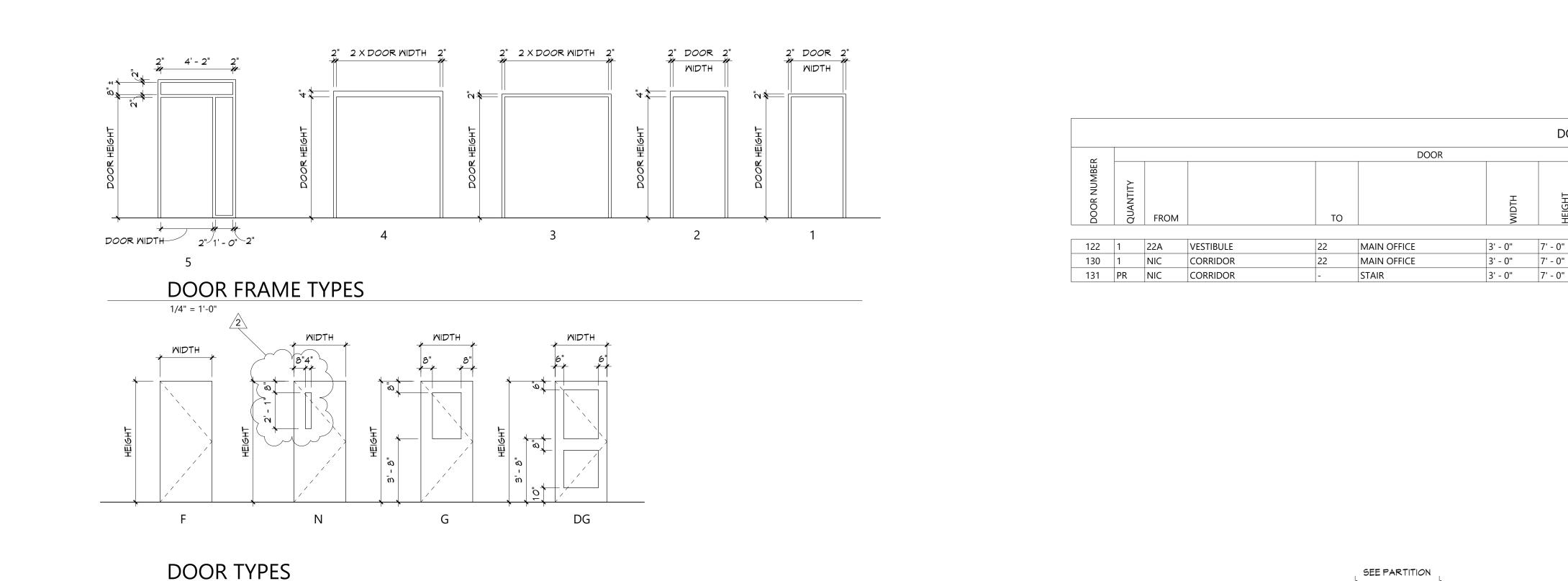




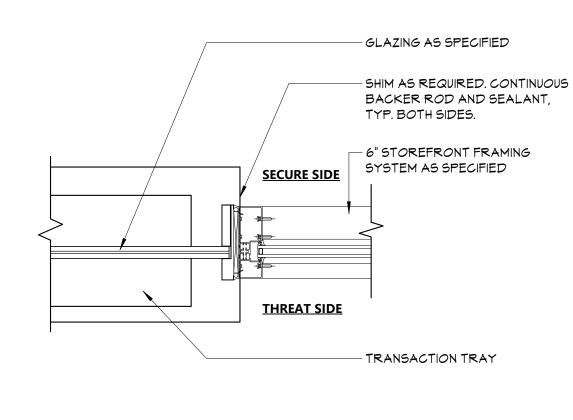




GRIDS CENTERED IN THE ROOM, UNO. IN THAN RECTANGULAR SHAPED, INSTALL ED ON WALLS OR OTHER BUILT DICATED. HEIGHTS OF THE CEILINGS MAY VARY I PLANS IN ROOMS WITH EXTERIOR AL CEILING HEIGHT TO BE VERIFIED IN D CEILINGS SHALL HAVE HEIGHTS WITH OTHER CONTRACTORS WITH WORK AND VERIFIED WITH FIELD L CHANGES IN CONFIGURATION OR D BE APPROVED BY THE ARCHITECT. ILING LEGEND OR PLASTER CEILING, REFER TO ILS AND ROOM FINISH SCHEDULE ENDED ACOUSTICAL PANEL CEILING	19 Front St. · Newburgh · New York 12550-7601 845 · 561 · 3179 www.csarchpc.com
IG HEIGHT ABOVE FINISHED FLOOR MENT, REFER TO ELECTRICAL DDITIONAL INFORMATION. X4' LIGHT FIXTURE X2' LIGHT FIXTURE X2' LIGHT FIXTURE X1 LIGHT FIXTURE X2' LIGHT X2' LIGHT	Plot The VALLEY CENTRAL SCHOOL DISTRICT MAYBROOK ALTERNATIVE LEARNING CENTER 2023 CAPITAL PROJECT - PHASE 1
KEY PLAN	2 11/1/24 BID ADDENDUM #2 Image: Date DESCRIPTION Drawn By: Author Checked By: Checker Proj. #: 44-13-01-06-0-002-013 CSArch Proj. #: 187-2302.01 Issued for Bid: 10/18/24 Sheet Title REFLECTED CEILING PLAN - FIRST FLOOR - FIRST FLOOR - AREA A Sheet No. MARA Sheet No. MAA ABA21 CONSTRUCTION DOCUMENTS

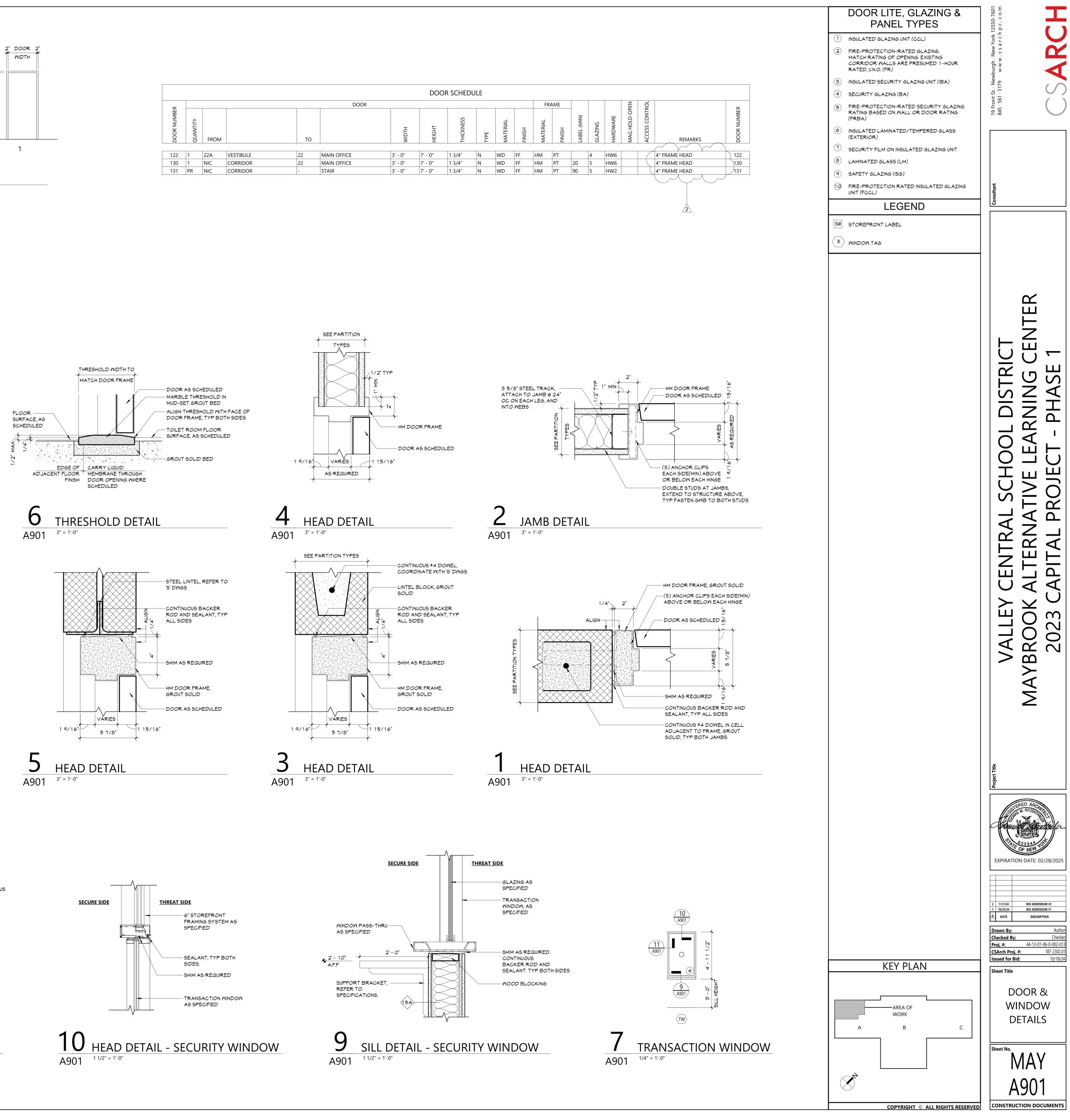


1/4" = 1'-0"









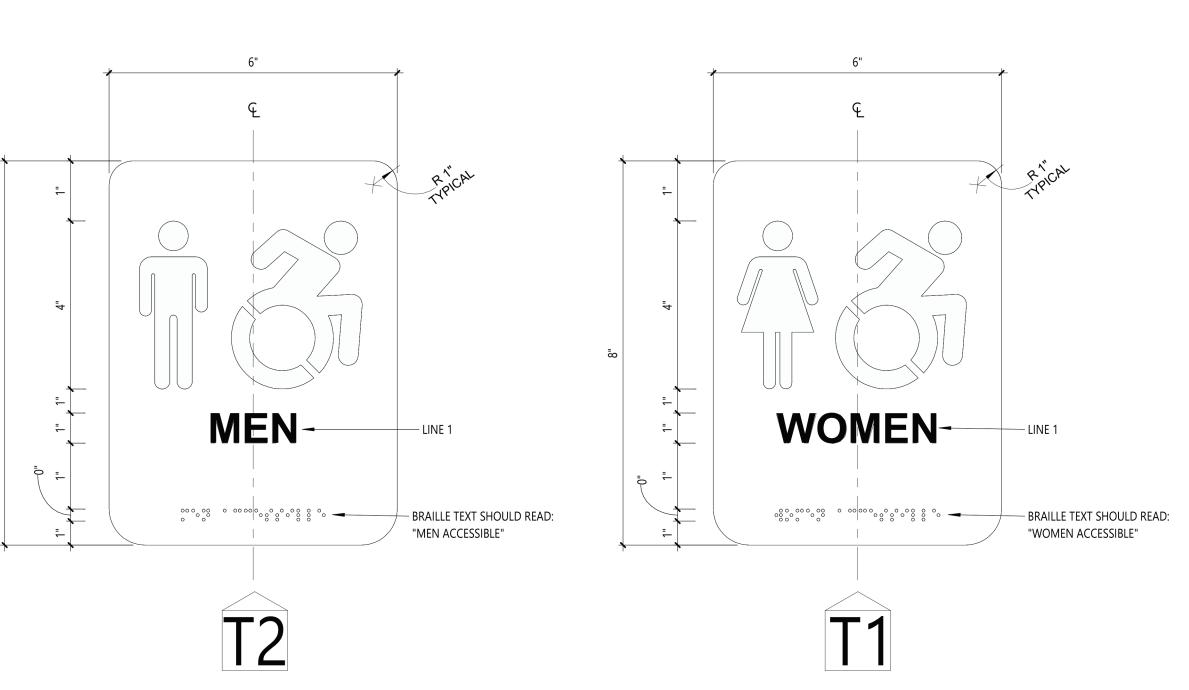
		ROOM SIGNAGE	SCHEDULE	
ROOM NUMBER	ROOM NAME	SIGNAGE TYPE	QUANTITY	REMARKS
22	MAIN OFFICE	K1	2	FIRST FLOOR
22A	VESTIBULE	K1	2	FIRST FLOOR
22B	SECURITY	K1	1	FIRST FLOOR
L.				

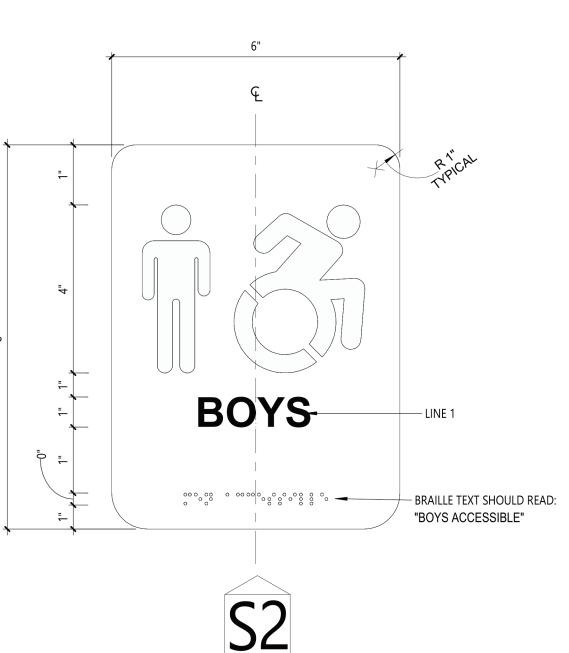
NOTES:1) REFER TO PANEL SIGNAGE ELEVATIONS FOR SIGNAGE TYPES.

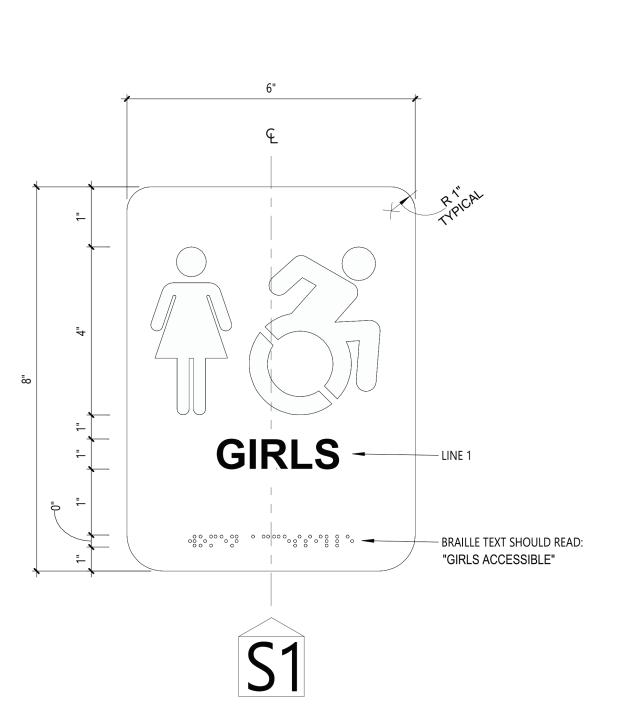
2) REFER TO SPECIFICATION SECTION 101423 - "INTERIOR PANEL SIGNAGE" FOR ADDITIONAL INFORMATION. 3) ALL EXISTING PANEL SIGNAGE FOR ROOMS NOTED ABOVE SHALL BE REMOVED AND REPLACED WITH NEW. 4) FINAL NUMBERING AND NAMING OF ROOMS TO BE DETERMINED BY OWNER DURING THE SUBMITTAL AND SHOP DRAWING REVIEW.

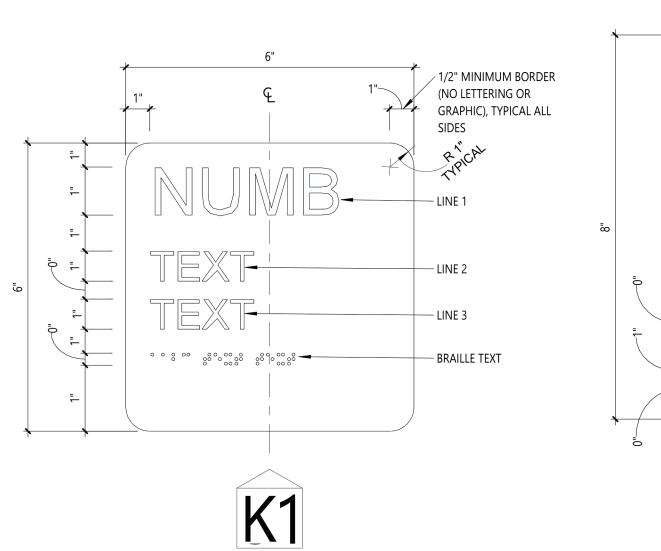
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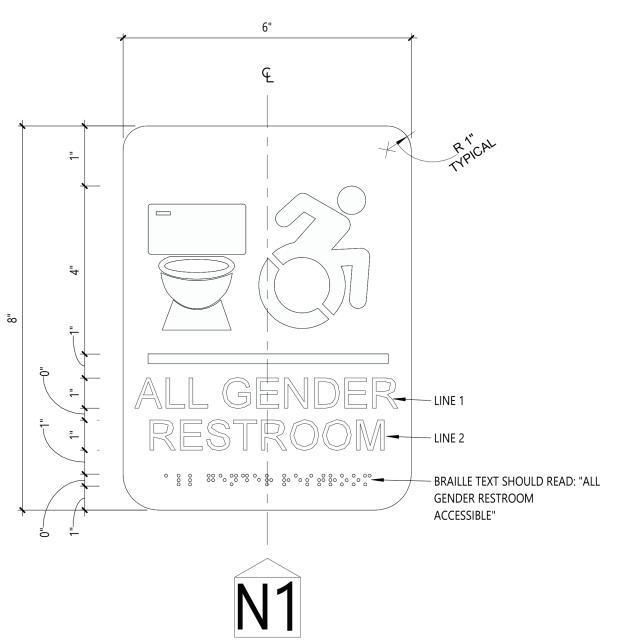


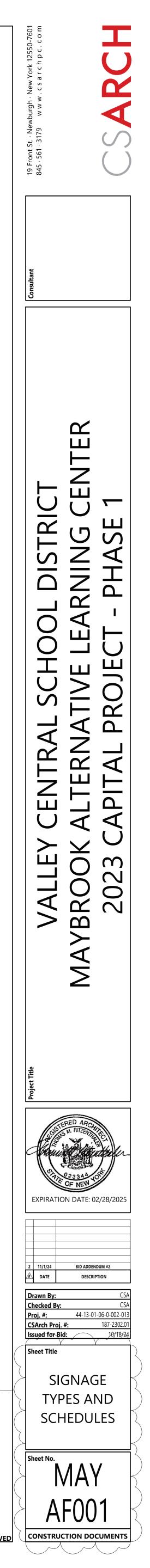






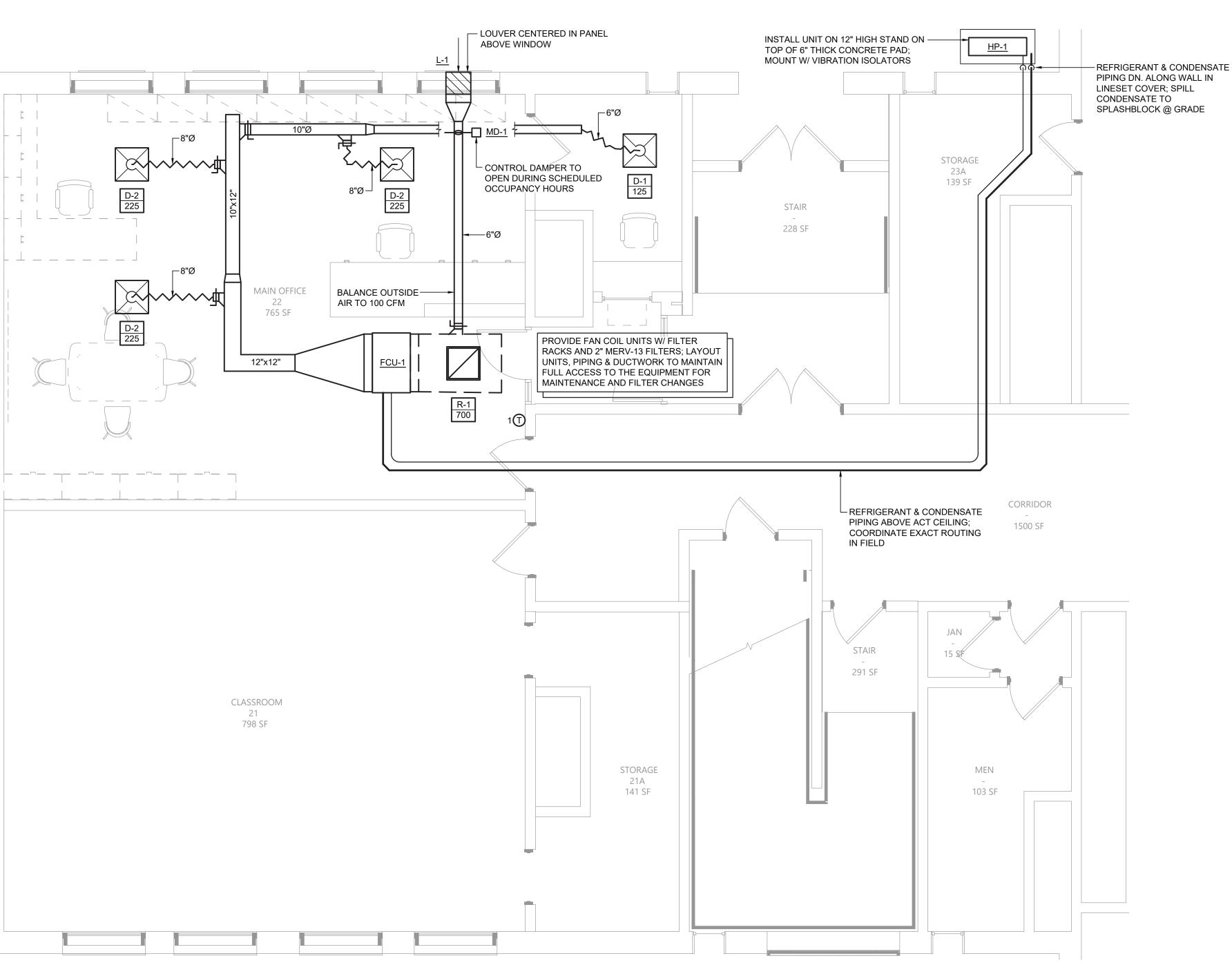






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									INDO	OR	MINI-S	SPLIT	UNIT	SCHE	EDUL	E			
	EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED		M) CA	CO APACITY (MBH)	EDB EW (°F) (°F		HEATIN PACITY ED MBH) (°F	B EWB	– PAIRED OUTDOOF UNIT	EXTERI STATI PRESSU (IN. W.	IC JRE	ELECTRIC POWEF REQUIREMI T. PHASE H	R	WEIGH ⁻ (LB)	TNOT
	FCU-1	MITSUBISHI	PEAD-A30AA8	DUCTED MEDIU STATIC	M MAIN OFFI	ICE 8	00	30.0	80.0 67	.0 3	32.0 70.	0 60.0	HP-1	0.50	208	3 1 0	60 121	67	HYPER HEATING UNIT; SEE V
SPLIT SYSTEMS WITH DUCT FAN COIL & HEAT PUMP FURNISHED BY OWNER, INSTALLED BY CONTRACTOR; CONTRACTOR IS RESPONSIBLE		• •				·	·			·		·	•			· ·		·	
TO RECEIVE THE EQUIPMENT DELIVERY AT THE PROJECT SITE, MOVE EQUIPMENT FROM TRUCK(S) TO A DESIGNATED STORAGE LOCATION ON THE SITE & RIG THE UNIT INTO THE FINAL INSTALLATION LOCATION;								1	AIR-CO	DOL	ED HE	EAT P	UMP S	SCHEI	DULE				
CONTRACTOR IS TO PROVIDE ALL ASSOCIATED COMPONENTS, I.E., DUCTWORK, PIPING, CONTROLS, ACCESSORIES, ETC. UNLESS OTHERWISE NOTED IN THE PROJECT DOCUMENTS; REFER TO FRONT END DOCUMENTS FOR ADDITIONAL INFORMATION	EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COO CAPACITY (MBH)			OUTDOOF OPERATING T RANGE (°F OOLING HE	EMP. =)	AHRI EFFICIE RATINGS EER SEER	B REI	FRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING (dBA)		ELECTRIC POWEF REQUIREMI HASE Hz.	R ENTS	(L	GHT B)
	HP-1	MITSUBISHI	SUZ-KA30NAHZ	FCU-1	INVERTER SCROLL HERMETIC	30.0	32.0	0 0	TO 115 -13	TO 75	12.5 15.0	3.4	R410A	52/53	208	1 60	24	40 2	61 FURNISH W/ REQUIRED PI
	EQUIPMENT TAG D-1	MANUFACTURER (OR ACCEPT. EQUAL) KRUEGER	MODI PLQ-6-F23-24x2		AIR DE TYF SQUARE F FACE DIF	PE PLAQUE FUSER		R GR DW (CFM) MAX. 175		PRESS. . W.C.)	FFUSEF mounting lay-in	PANEL	EDUL /frame sizi (IN.) 24"x24") NC	DAMPER	FINIS		NOTES /IDE W/ INSULATED BLANKET ON E
	D-2 R-1	KRUEGER	PLQ-8-F23-24x2 S80P-20x20-F23-24		SQUARE F FACE DIF PERFORAT	FUSER	176 0	300	0.10		LAY-IN		24"x24" 	8"Ø 20"x2		OBD	WHIT WHIT	FLIRN	IDE W/ INSULATED BLANKET ON E
	EQUIPMENT TAG L-1 1. COLOR 2. FURNISH	QTY. MANUFAG QTY. (OR AC EQU 1 RUS	CTURER CEPT. MODEL AL) KIN ELF6375DX D WITH OWNER/ARCHIT EEN OPTION.	AIR DEVICE 1 X STATIONAF LOUVER	WIDE	LOUVER S	VER BIZE	SCH	EDUL				ITING S	SCREEN YES	FINISH TBD	NOTES 1, 2 & 3			EAR OF GRILLE, PAINT INSIDE FLA



Mechanical Plan 1

M111/ Scale: 1/4" = 1'-0"

				INI	000	R MIN	II-SP	LIT	UNIT	SCHEDU	JLE	1				
	AREA OF		CC	OLING		HE	EATING		PAIRED	EXTERNAL		ELECT POV				
I-SPLIT UNIT TYPE	BUILDING	AIRFLOW (CFM)	CAPACITY	EDB	EWB	CAPACITY	EDB	EWB	OUTDOOR	STATIC PRESSURE		REQUIR		6	WEIGHT (LB)	N
	SERVED		(MBH)	(°F)	(°F)	(MBH)	(°F)	(°F)	UNIT	(IN. W.C.)	VOLT.	PHASE	Hz.	W	()	
TED MEDIUM STATIC	MAIN OFFICE	800	30.0	80.0	67.0	32.0	70.0	60.0	HP-1	0.50	208	1	60	121	67	HYPER HEATING UNIT; SEE

NITS D	COMPRESSOR TYPE	NOM. COOL CAPACITY	CAPACITY		DOOR NG TEMP. iE (°F)		EFFICIE	-	REFRIGERANT	SOUND PRESSURE LEVEL COOLING/			ECTRIC/ POWER UIREME			WEIGHT (LB)	
_		(MBH)	(MBH)	COOLING	HEATING	EER	SEER	COP		HEATING (dBA)	VOLT.	PHASE	Hz.	MCA	MOCP	· · ·	
1	INVERTER SCROLL HERMETIC	30.0	32.0	0 TO 115	-13 TO 75	12.5	15.0	3.4	R410A	52/53	208	1	60	24	40	261	FURNISH W/ REQUIRED

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Λ	Ď	DC 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 MAYBROOK ALC). 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.
	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.

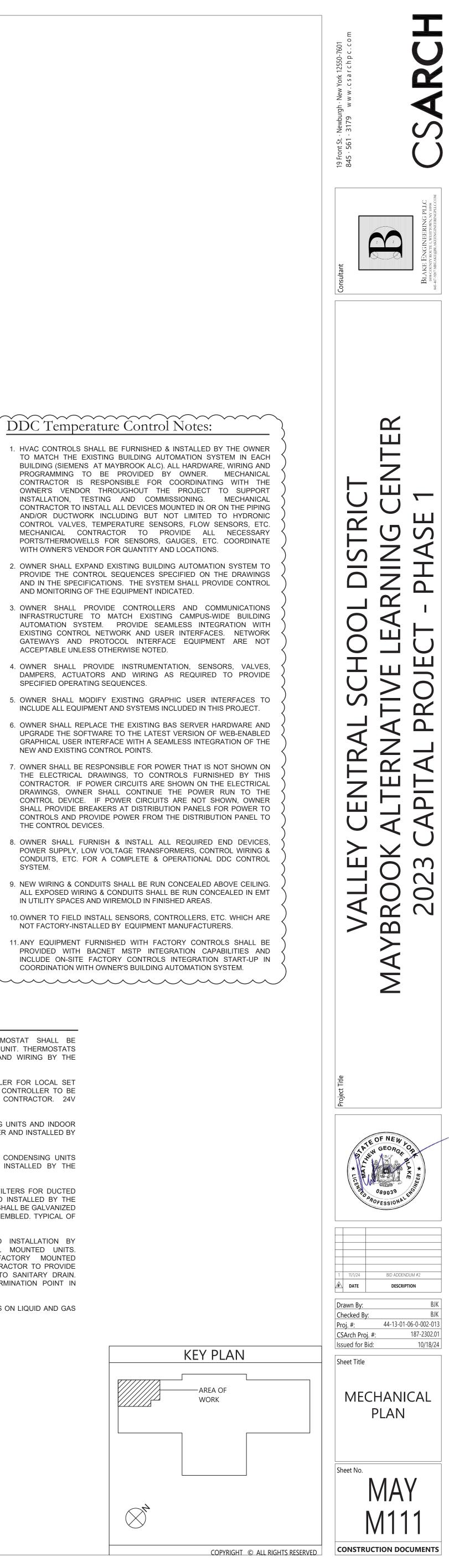
- 4. OWNER SHALL PROVIDE INSTRUMENTATION, SENSORS, VALVES, DAMPERS, ACTUATORS AND WIRING AS REQUIRED TO PROVIDE
- SPECIFIED OPERATING SEQUENCES. 5. OWNER SHALL MODIFY EXISTING GRAPHIC USER INTERFACES TO
- 6. OWNER SHALL REPLACE THE EXISTING BAS SERVER HARDWARE AND UPGRADE THE SOFTWARE TO THE LATEST VERSION 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.

	V	VRF S	ys	tem	Notes:
- 7	1.				PROGRAMMAE WNER FOR EAC

- ROGRAMMABLE THERMOSTAT SHALL BE ER FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.
- 2. OWNER TO FURNISH CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.
- 3. DISCONNECT SWITCHES FOR CONDENSING UNITS AND INDOOR UNITS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 4. EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- 5. FILTER RACK AND 2" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H SERIES OR EQUAL
- 6. CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.
- 7. PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN COIL UNIT.

	KEY PLAN
	AREA OF WORK
×	
	COPYRIGHT

NOTES			
EE VRF SYSTEM NOTES			
NOTES			
ED PIPING ACCESSORIES			
		 	_
	1		
ON BACKPAN]		
ON BACKPAN			
EET METAL PLENUM BOX	1		



	LIGHTING FIXTURE SCHEDULE											
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES		
A	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		
В	B-EM	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		
-	\mathbf{F}	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		
-	$\frac{1}{\sqrt{2}}$	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				BUS	S RATIN	G: 100A				40A MAIN CIRCUIT BREAKER
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 LOAD
EXISTING LOAD	EXISTING WIRING	20	3		•		4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	15	5			•	6	15	-	SPARE
EXISTING LOAD	EXISTING WIRING	15	7	•		ſ	8	15	-	SPARE
EXISTING LOAD	EXISTING WIRING	15	9		•		10	15	-	SPARE
EXISTING LOAD	EXISTING WIRING	15	11		ſ	•	12	15	-	SPARE
EXISTING LOAD	EXISTING WIRING	15	13	•			14	15	-	SPARE
SPARE	-	15	15	Í	•		16	15	-	SPARE
EXTERIOR LIGHTING	(2) #12 CU & (1) #12 GND.	20	17			•	18	15	-	SPARE
		40	19	•	, 		20	-	-	SPACE
HP-1 & FCU-1	(2) #8 CU & (1) #10 GND.	40	21	r	•		22	-	-	SPACE
SPACE	-	-	23		ľ	•	24	-	-	SPACE
GE A SERIES PANEL				-	-	-	-	kVA T	OTAL	′
									DE NEW CIRCUIT BREAKERS ITS; BREAKERS SHALL MATC	

RATING



Existing Panelboard PP-EF1 Scale: None

FIRE ALARM LEGEND:

$\boxtimes \triangleleft$	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
$\langle \hat{\mathbf{b}} \rangle$	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
⊕ _R	RATE OF RISE HEAT DETECTOR, 135°F
СО	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:
РВ	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

|EL|

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

120/208V 3Ø 4W+G CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	S RATINO	G: 225A VAX EN	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	M CONNECTED LOAE
EXISTING LOAD	EXISTING WIRING	20	1				2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3		•		4	20	(2) #12 CU & (1) #12 GND.	FIRE SHUTTER
EXISTING LOAD	EXISTING WIRING	20	5		[6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	•			8	20	EXISTING WIRING	EXISTING LOAD
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	9	ſ	· /		10	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
EXISTING LOAD	EXISTING WIRING	20	11		[•	12	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	13	•			14	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	15	ľ	•		16	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	17			•	18	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	19	•			20	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	21		•		22	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	23			•	24	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	25	•			26	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	27		•		28	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	29			• /.	30	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	31	•			32	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	33		· /.		34	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	35		Í	•	36	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	37	•			38	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	39		· / .		40	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	41		ľ	•	42	20	EXISTING WIRING	EXISTING LOAD
CUTLER HAMMER PRL1a	PANEL	7	-	-	-	-	• F (DE NEW CIRCUIT BREAKERS ITS; BREAKERS SHALL MATC	



• 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	Ø	MOTOR				
THERWISE NOTED	Ī	EARTH GROUND				
HERWISE NOTED; 15	- -	JUNCTION BOX				
	C	EMERGENCY POWER OFF BUTTON				
		FUSE WITH RATING				
	\bigcirc	MOLDED CASE CIRCUIT BREAKER				
	42	DISCONNECT SWITCH, FUSED				
<u>.</u>	-	DISCONNECT SWITCH, UNFUSED				
5.	4	STARTER, COMBINATION WITH DISCONNECT SWITCH				
DR		STARTER OR MOTOR CONTROLLER				
IOKE DAMPER	M	METER				
	6	20A 120V DUPLEX CEILING MOUNTED RECEPTACLE				
F.F.	÷	20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED				
L	#	20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER				
	#	20A 120V QUADRAPLEX RECEPTACLE				
OKE DETECTORS	-0	WALL MOUNTED SPECIAL PURPOSE RECEPTACLE				
JRE DETECTORS	€ _{USB}	20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL				
	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	Δ_{M}	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				
	Ψ	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				
	ММ	MULTIMEDIA BOX. PROVIDE DEVICE BOX AT 60" ABOVE FINISHED FLOOR WITH DUPLEX RECEPTACLE & (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.				
Δ	(WAP)	WIRELESS ACCESS POINT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE AT CEILING DEVICE & RUN CABLING TO NEAREST DATA CLOSET				
>	ଠର	COMBINATION WALL MOUNTED CLOCK/SPEAKER UNIT				

COMBINATION WALL MOUNTED CLOCK/SPEAKER UNIT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE TO DEVICE & RUN CABLING TO NEAREST DATA CLOSET

CS

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.

	WIRE COLOR CODING TABLE						E
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	G
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	Gl
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:

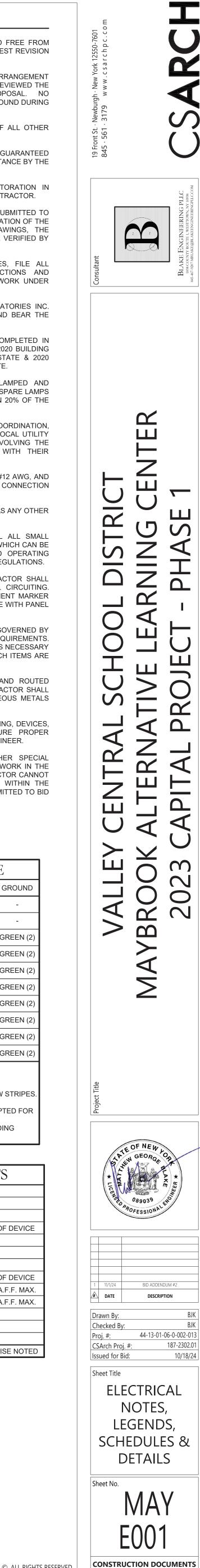
- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES. - GREEN = 50 TO 70%, YELLOW = 50 TO 30%.

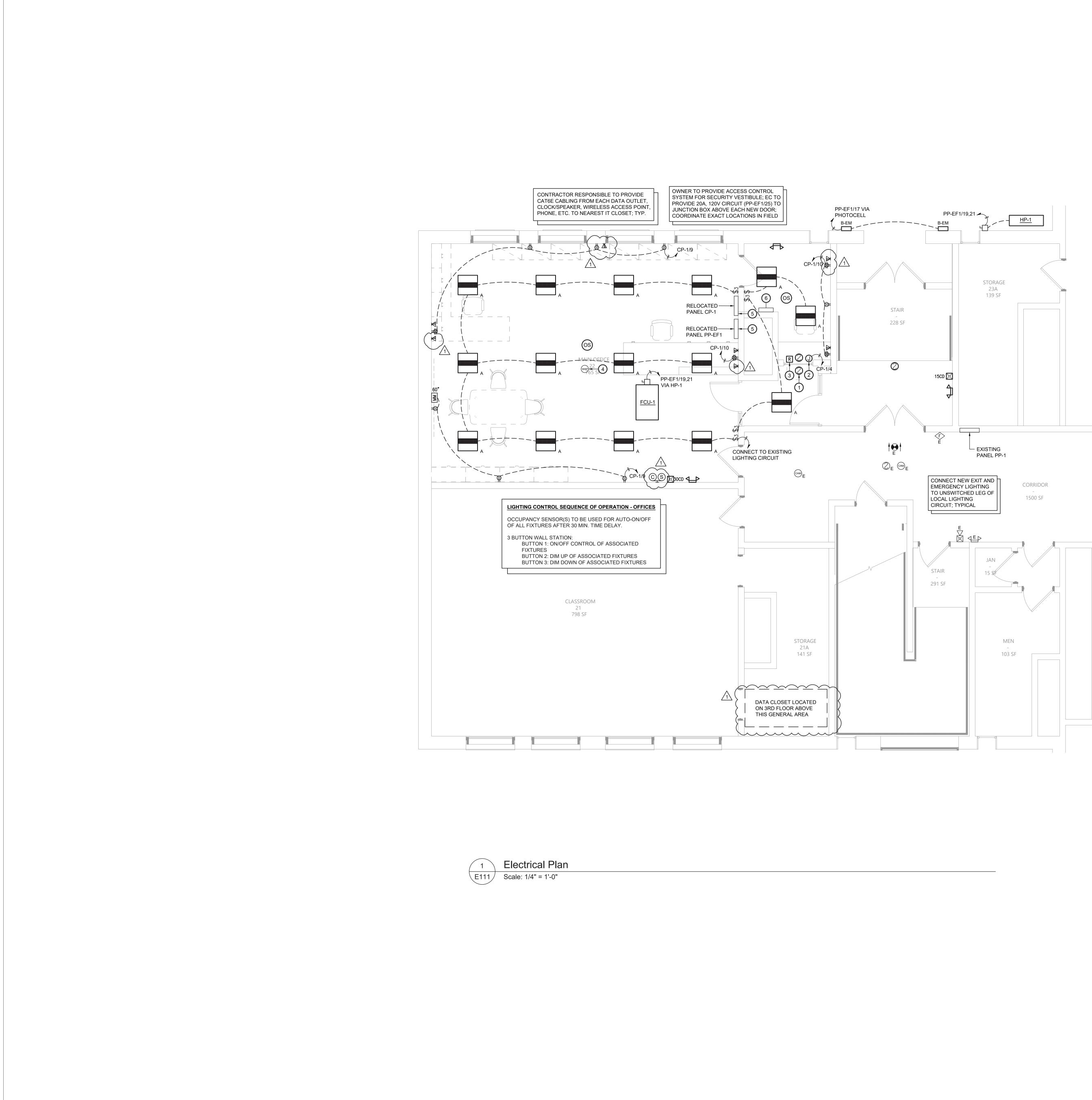
- GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR. - GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

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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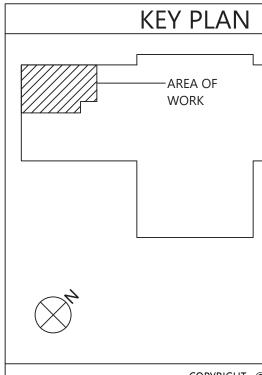




Key Notes:

1	PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM
2	PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
3	FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
4	REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO EXISTING DATA CABLING
5	EXISTING PANELBOARD TO BE REINSTALLED IN NEW LOCATION; EXTEND FEEDERS, BRANCH CIRCUITS AND CONDUITS TO NEW PANEL LOCATION, FIELD VERIFY EXACT ROUTING; PROVIDE JUNCTION BOXES & ADDITIONAL WIRING & CONDUITS AS NEEDED

EXISTING JUNCTION BOX TO BE REINSTALLED IN NEW LOCATION; EXTEND WIRING AND CONDUITS TO NEW BOX LOCATION, FIELD VERIFY EXACT ROUTING; PROVIDE ADDITIONAL JUNCTION BOXES, WIRING & CONDUITS AS NEEDED 6



NECT TO THE

V LOCATION; TS TO NEW ROVIDE TS AS NEEDED



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