VALLEY CENTRAL SCHOOL DISTRICT MONTGOMERY ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE 1

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

CSARCH - ARCHITECTS

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

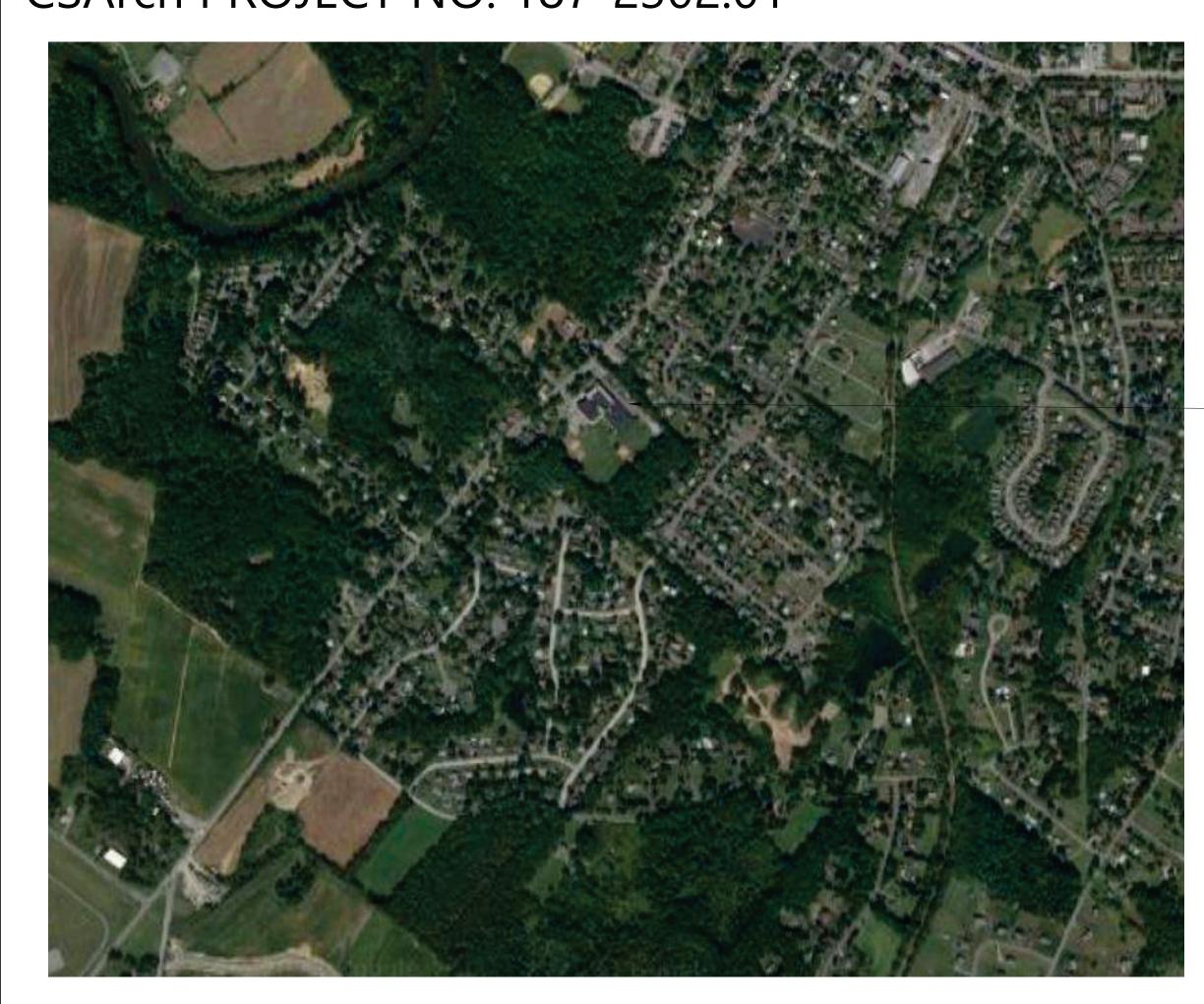
STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:

2023 CAPITAL PROJECT - PHASE 1

44-13-01-06-0-004-015

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



Montgomery Elementary School Montgomery, NY 12549

VICINITY MAP



DRAWING LIST

GENERAL DRAWINGS

MES G000 COVER & SHEET INDEX

SYMBOLS, ABBREVIATIONS, MISC, AND PARTITION TYPES

MES G111 OVERALL FLOOR PLAN - FIRST FLOOR

LIFE SAFETY DRAWINGS

MES LS111 FIRST FLOOR LIFE SAFETY PLAN MES LS112 SMOKE ZONE PLANS

ARCHITECTURAL DEMOLITION DRAWINGS

MES AD111 ENLARGED REMOVAL PLAN - FIRST FLOOR - AREA C

MES A111 ENLARGED NEW WORK PLAN - FIRST FLOOR - AREA C

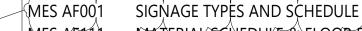
ARCHITECTURAL DRAWINGS

MES A201 EXTERIOR ELEVATIONS

MES A202 EXTERIOR ELEVATIONS

MES A811 REFLECTED CEILING PLAN - FIRST FLOOR - AREA C MES A901 DOOR, WINDOW, & STOREFRONT DETAILS

ARCHITECTURAL FINISH DRAWINGS



MES AF11 MATERIAL SCHEDULE & FLOOR FINISHES PLAN - AREA C

PLUMBING GENERAL DRAWINGS

MES P001 PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS

PLUMBING DRAWINGS

MES P111 PLUMBING PLANS

MECHANICAL GENERAL DRAWINGS

MES M001 MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS

MECHANICAL DEMOLITION DRAWINGS MES MD111 MECHANICAL DEMOLITION PLAN

MECHANICAL DRAWINGS

MES M111 MECHANICAL PLAN

ELECTRICAL GENERAL DRAWINGS

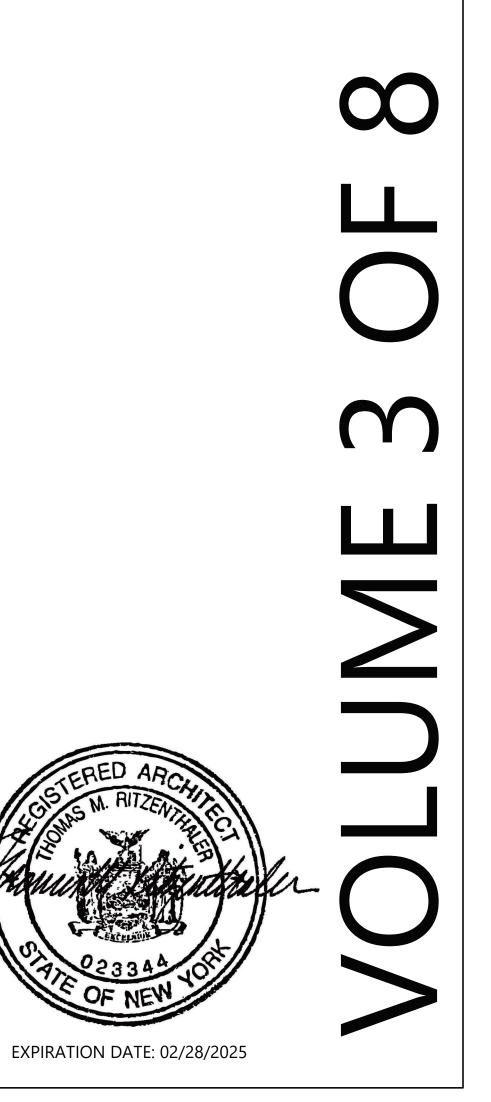
MES E001 ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS

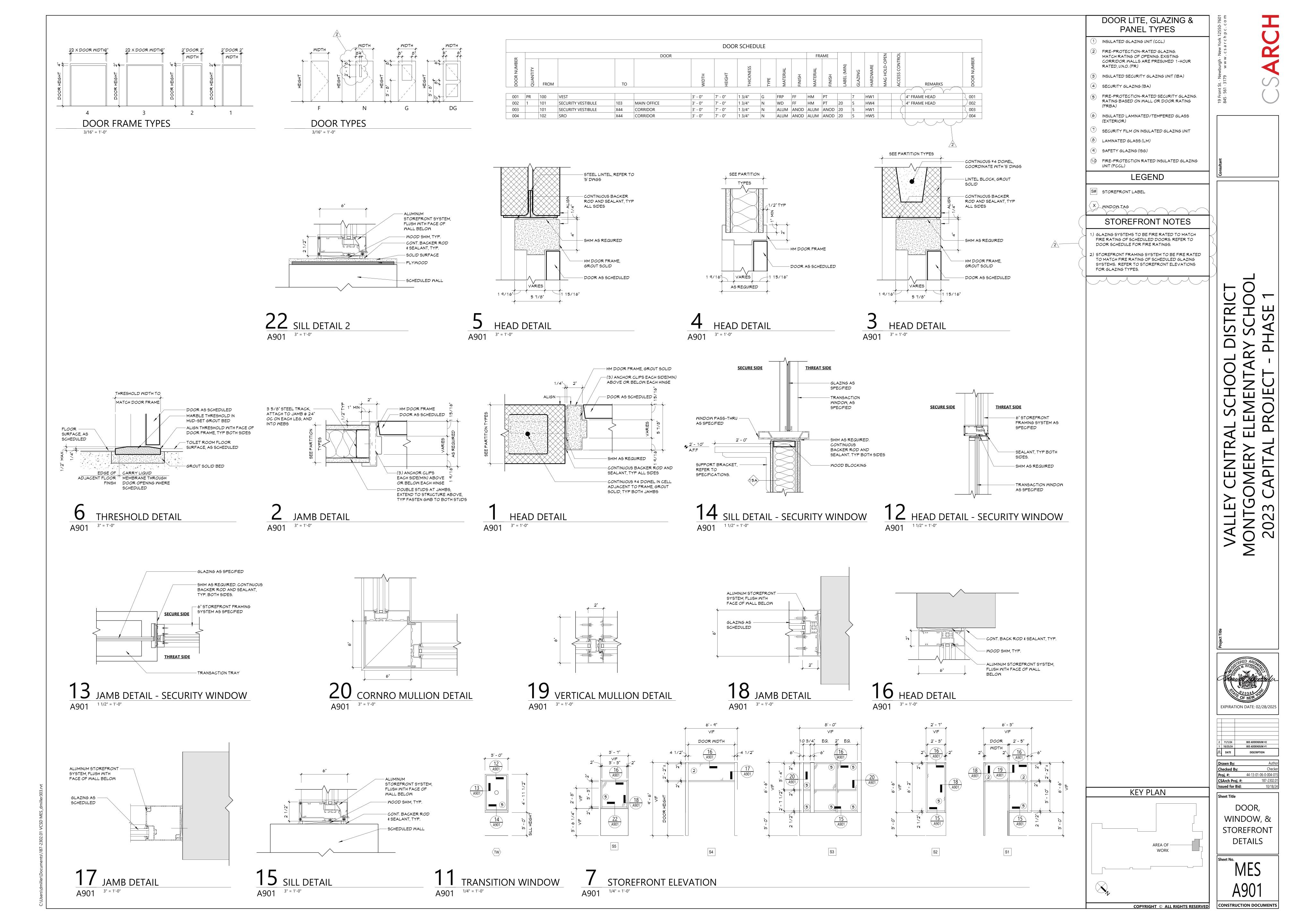
ELECTRICAL DEMOLITION DRAWINGS

MES ED111 ELECTRICAL DEMOLITION PLAN

ELECTRICAL DRAWINGS

MES E111 ELECTRICAL PLAN

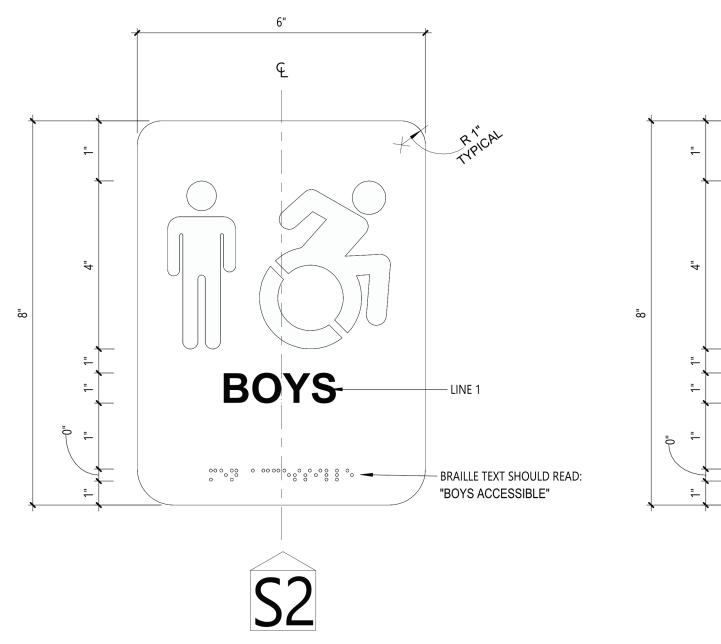


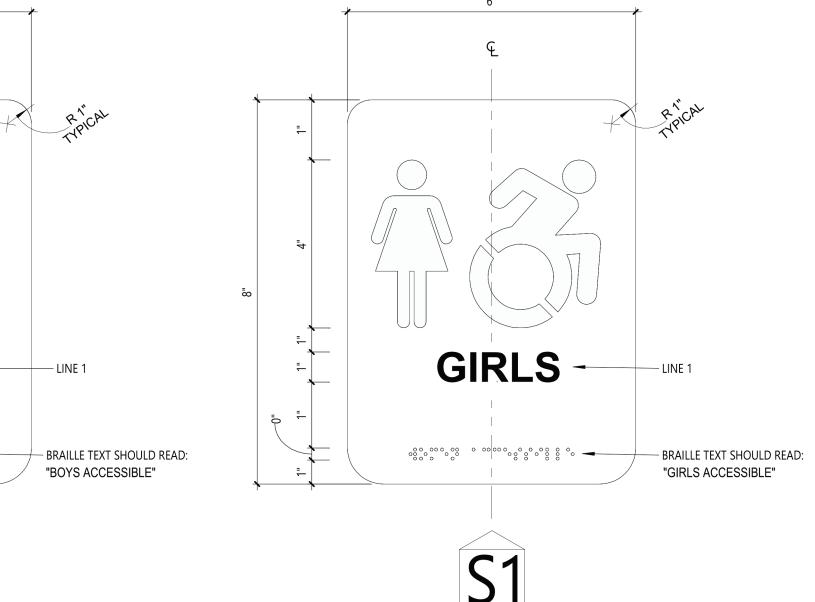


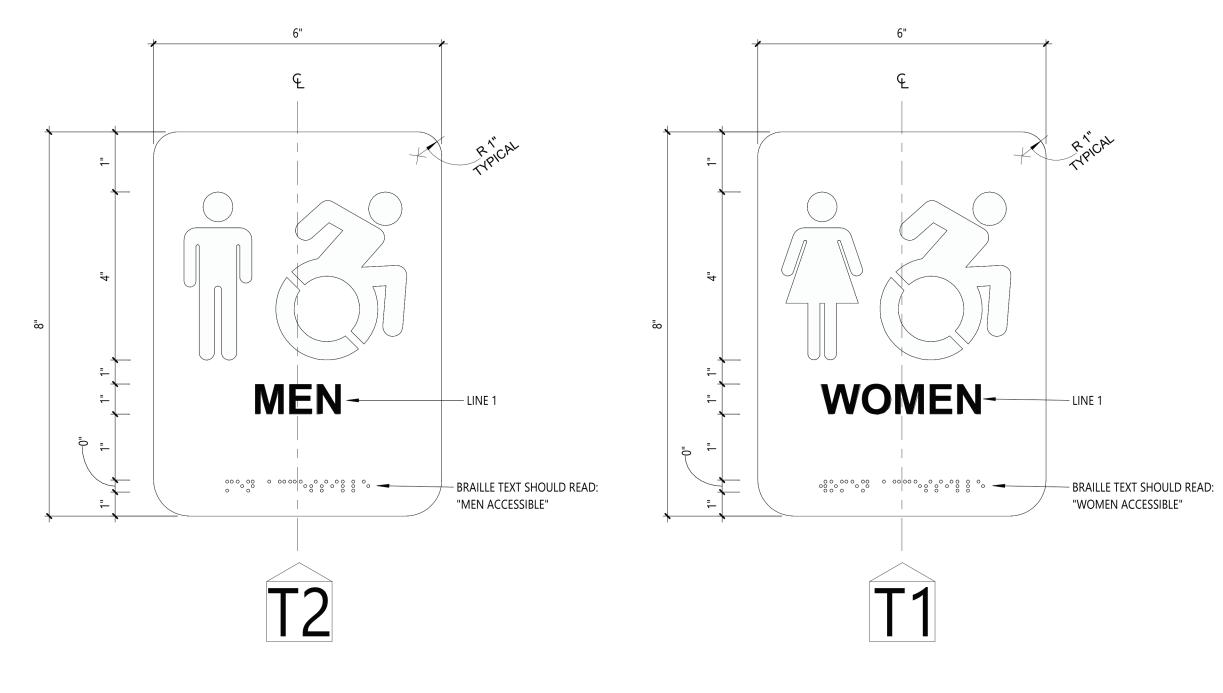
SIGNAGE TYPES AND SCHEDULE

Sheet No. MES AF001 CONSTRUCTION DOCUMENTS

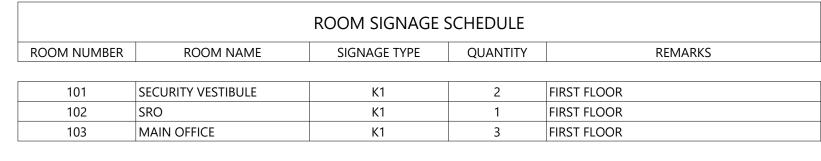
" 1/2" MINIMUM BORDER (NO LETTERING OR GRAPHIC), TYPICAL ALL SIDES LINE 3 — BRAILLE TEXT BRAILLE TEXT SHOULD READ: "ALL GENDER RESTROOM ACCESSIBLE"







PANEL SIGNAGE ELEVATIONS



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.

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

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

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

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

4. OWNER SHALL PROVIDE INSTRUMENTATION, SENSORS, VALVES, DAMPERS, ACTUATORS AND WIRING AS REQUIRED TO PROVIDE

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

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

8. OWNER SHALL FURNISH & INSTALL ALL REQUIRED END DEVICES, POWER SUPPLY, LOW VOLTAGE TRANSFORMERS, CONTROL WIRING & CONDUITS, ETC. FOR A COMPLETE & OPERATIONAL DDC CONTROL

9. NEW WIRING & CONDUITS SHALL BE RUN CONCEALED ABOVE CEILING. ALL EXPOSED WIRING & CONDUITS SHALL BE RUN CONCEALED IN EMT

10.OWNER TO FIELD INSTALL SENSORS, CONTROLLERS, ETC. WHICH ARE

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

IN UTILITY SPACES AND WIREMOLD IN FINISHED AREAS.

NOT FACTORY-INSTALLED BY EQUIPMENT MANUFACTURERS.

COORDINATION WITH OWNER'S BUILDING AUTOMATION SYSTEM.

PROGRAMMING TO BE PROVIDED BY OWNER. MECHANICAL

DDC Temperature Control Notes:

WITH OWNER'S VENDOR FOR QUANTITY AND LOCATIONS.

AND MONITORING OF THE EQUIPMENT INDICATED.

ACCEPTABLE UNLESS OTHERWISE NOTED.

SPECIFIED OPERATING SEQUENCES.

NEW AND EXISTING CONTROL POINTS.

THE CONTROL DEVICES.

WIRED 7 DAY PROGRAMMABLE THERMOSTAT SHALL BE FURNISHED BY MECHANICAL CONTRACTOR FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND

MECHANICAL CONTRACTOR TO PROVIDE CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.

DISCONNECT SWITCHES FOR CONDENSING UNITS AND INDOOR

4. EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS

AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

CONTRACTOR.

SERIES OR EQUAL

LINES AT EVERY FAN COIL UNIT.

UNITS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR

SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL

FILTER RACK AND 2" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H

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

7. PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS

WIRING BY THE MECHANICAL CONTRACTOR.

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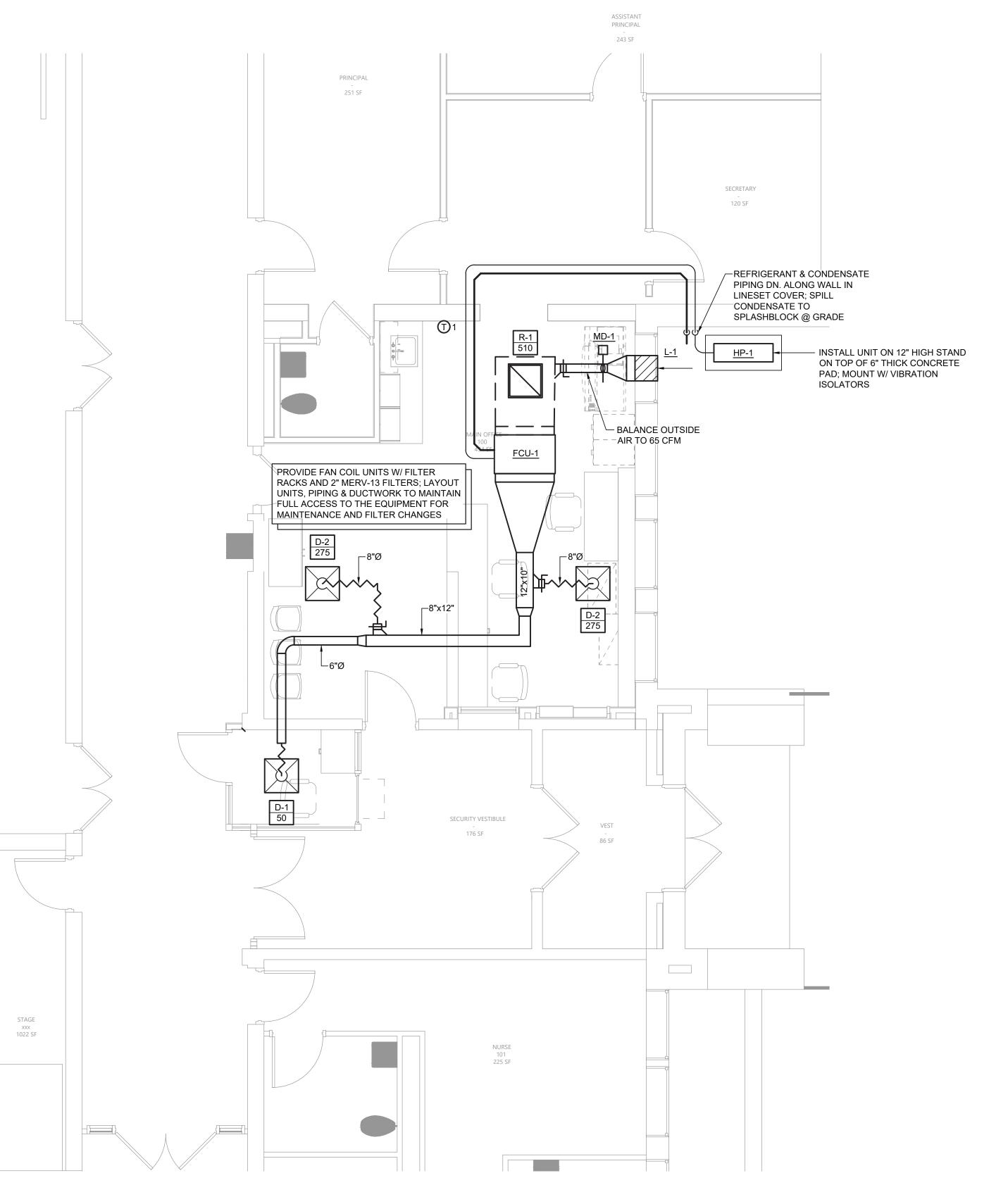
Sheet Title

KEY PLAN

AREA OF — WORK

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MECHANICAL PLAN



Mechanical Plan

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

							IND	OOR M	IINI-S	PLIT	UNIT	SCHED	ULE] [VRF System Notes: 1. WIRED 7 DAY PROGRAMMAN
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED	AIRFLOW (CFM)		EDB (°F)	EWB CAPA (MB		EWB	PAIRED OUTDOOF UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)	ELECTRICA POWER REQUIREMEN VOLT. PHASE Hz	ITS	WEIGHT (LB)	NOTES]	FURNISHED BY MECHANICAL COUNT. THERMOSTATS SHIP LOOS WIRING BY THE MECHANICAL CO 2. MECHANICAL CONTRACTOR TO F
FCU-1	MITSUBISHI	PEAD-A18AA8	DUCTED MEDIUM STATIC	MAIN OFFICE	600	18.0	80.0	67.0 21.	6 70.0	60.0	HP-1	0.50	208 1 60	121	60	HYPER HEATING UNIT; SEE VRF SYSTEM NOTES] i	FOR LOCAL SET POINT CON CONTROLLER TO BE INSTALLED CONTRACTOR. 24V POWER BY E

							AIR-COOL	ED	Н	EAT	T PUMP S	CHED	UL	E						
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	NOM. HEAT CAPACITY (MBH)	OUTDOOR OPERATING TEMP. RANGE (°F) COOLING HEATING	F	EFFICI RATING SEER	S	REFRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING (dBA)	VOLT	R	PC EQUI	TRICA WER REMEN	NTS	MOCP	WEIGHT (LB)	NOTES
HP-1	MITSUBISHI	SUZ-KA18NAHZ	FCU-1	INVERTER SCROLL HERMETIC	18.0	21.6	0 TO 115 -13 TO 75	12.8	18.9	3.3	R410A	52/53	208	1		60	17	30	131	HYPER HEATING UNIT; FURNISH W/ REQUIRED PIPING ACCESSORIES

				AI	R GRI	ILLE/DIF	FUSER	SCHEDULE	1					
EQUIPMENT	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE	1		MAX AIR PRESS. DROP (IN. W.C.)	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	MAX NC	DAMPER	FINISH	NOTES	
TAG	TAG EQUAL)		TYPE	MIN.	MAX.	DROP (IN. W.C.)		(IN.)	(IN.)	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	

	LOUVER SCHEDULE														
EQUIPMENT	QTY.	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE TYPE	LOUVER SIZE			FREE AREA		VELOCITY	MOUNTING	SCREEN	FINISH	NOTES	
TAG QTY.		EQUAL)	MODEL	AIN DEVICE TIPE	WIDE	HIGH	DEPTH	(SQ. FT.)	(CFM)	(FT./MIN.)	MOONTING	SCILLIN	TIMOTI	NOTES	
L-1	1	RUSKIN	ELF6375DX	STATIONARY LOUVER	18"	12"	6"	0.63	65	103.2	EXTERIOR WALL	YES	TBD	1, 2 & 3	

FURNISH WITH INSECT-SCREEN OPTION. FURNISH W/ PROPER MOUNTING HARDWARE.

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;

CONTRACTOR IS TO PROVIDE ALL ASSOCIATED COMPONENTS, I.E.,

OTHERWISE NOTED IN THE PROJECT DOCUMENTS; REFER TO FRONT

DUCTWORK, PIPING, CONTROLS, ACCESSORIES, ETC. UNLESS

END DOCUMENTS FOR ADDITIONAL INFORMATION

	LIGHTING FIXTURE SCHEDULE									
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
А	⊟ _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	В-ЕМ	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	LIGHTSMITH / JEFFERSON LIGHTING CALCUTTA PENDANT LED PD-6209-HNA-ABB-DIM	LED	120	1	52	52	RECESSED	20"x19"	-
-	\Box	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
-	\$ ⊗	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
-	⊗	HE WILLIAMS LED EXIT LIGHT EXIT-R-EM-WHT-SDT-D	LED	120	1	3.8	3.8	UNIVERSAL	-	90-MINUTE BATTERY BACKUP

FIRE ALARM LEGEND:

HORN/STROBE DEVICE, ONE ASSEMBLY; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED

STROBE DEVICE; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15

CANDELA UNLESS OTHERWISE NOTED

MANUAL PULL STATION; MTD. 48" A.F.F.

WATER FLOW SWITCH

VALVE TAMPER SWITCH

DETECTOR; LETTER INDICATES AS FOLLOWS: BLANK = SMOKE DETECTOR P = PHOTOELECTRIC SMOKE M = MULTIPLE STATION SMOKE ALARM D = PHOTOELECTRIC DUCT SMOKE DETECTOR

RATE OF RISE HEAT DETECTOR, 135°F

CARBON MONOXIDE DETECTOR; MTD. 60" A.F.F.

ADDRESSABLE FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR PANEL

REMOTE TEST SWITCH & LED FOR DUCT SMOKE DETECTORS

FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DAMPER

FIRE ALARM RELAY

SECURITY LEGEND:

PANIC BUTTON - 18/4 SHIELDED

INTERCOM

DOOR RELEASE BUTTON - 16/2 SHIELDED

WORKSTATION FOR CARD ACCESS & VIDEO SYSTEM

CARD READER - 22/6 SHIELDED

ELECTRIC LOCK - 16/2 SHIELDED

REQUEST TO EXIT - 18/4 SHIELDED

MAGNETIC DOOR CONTACT - 16/2 SHIELDED

ELECTRICAL LEGEND:

MOTOR

EARTH GROUND

JUNCTION BOX

EMERGENCY POWER OFF BUTTON

MOLDED CASE CIRCUIT BREAKER

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER M

20A 120V DUPLEX CEILING MOUNTED RECEPTACLE

20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED

20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER

20A 120V QUADRAPLEX RECEPTACLE

OUTLET; FLUSH MOUNTED

OUTLET; FLUSH MOUNTED

WALL MOUNTED SPECIAL PURPOSE RECEPTACLE

⇒ USB 20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL

FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE; FLUSH MOUNTED

FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE & 2 PORT ETHERNET

FLOOR MOUNTED BOX W/ QUAD RECEPTACLE & 2 PORT ETHERNET

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

WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD

WALL TO ABOVE CEILING; PROVIDE 2 PORT ETHERNET WALL PLATE; PROVIDE (2) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS,

TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN

NEUTRAL, AND SWITCH LEG CONDUCTORS; ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN

2 = DOUBLE POLE BLANK = SINGLE POLE 3 = THREE-WAY4 = FOUR-WAY D = DIMMER K = KEY OPERATED P = WITH PILOT LIGHT PB= PUSH BUTTON T = TIMER OPERATED WP= WEATHER PROOF OC= OCCUPANCY SENSOR X = EXPLOSION PROOF

DUAL TECHNOLOGY OCCUPANCY SENSOR

DAYLIGHT SENSOR

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



WIRELESS ACCESS POINT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE AT CEILING DEVICE & RUN CABLING TO NEAREST DATA CLOSET

COMBINATION WALL MOUNTED CLOCK/SPEAKER UNIT PROVIDED BY OWNER; CONTRACTOR TO PROVIDE CAT6E CABLE TO 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
- 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 SPECIA
	LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN TH
	MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNO
	OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN TH
	PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BI
	ON THIS PROJECT.

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

FOR DOUBLE INSULATED EQUIPMENT ONLY.

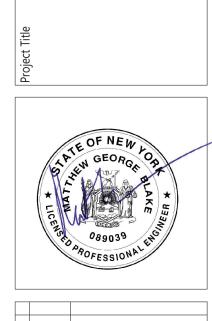
CONDUCTORS.

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

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



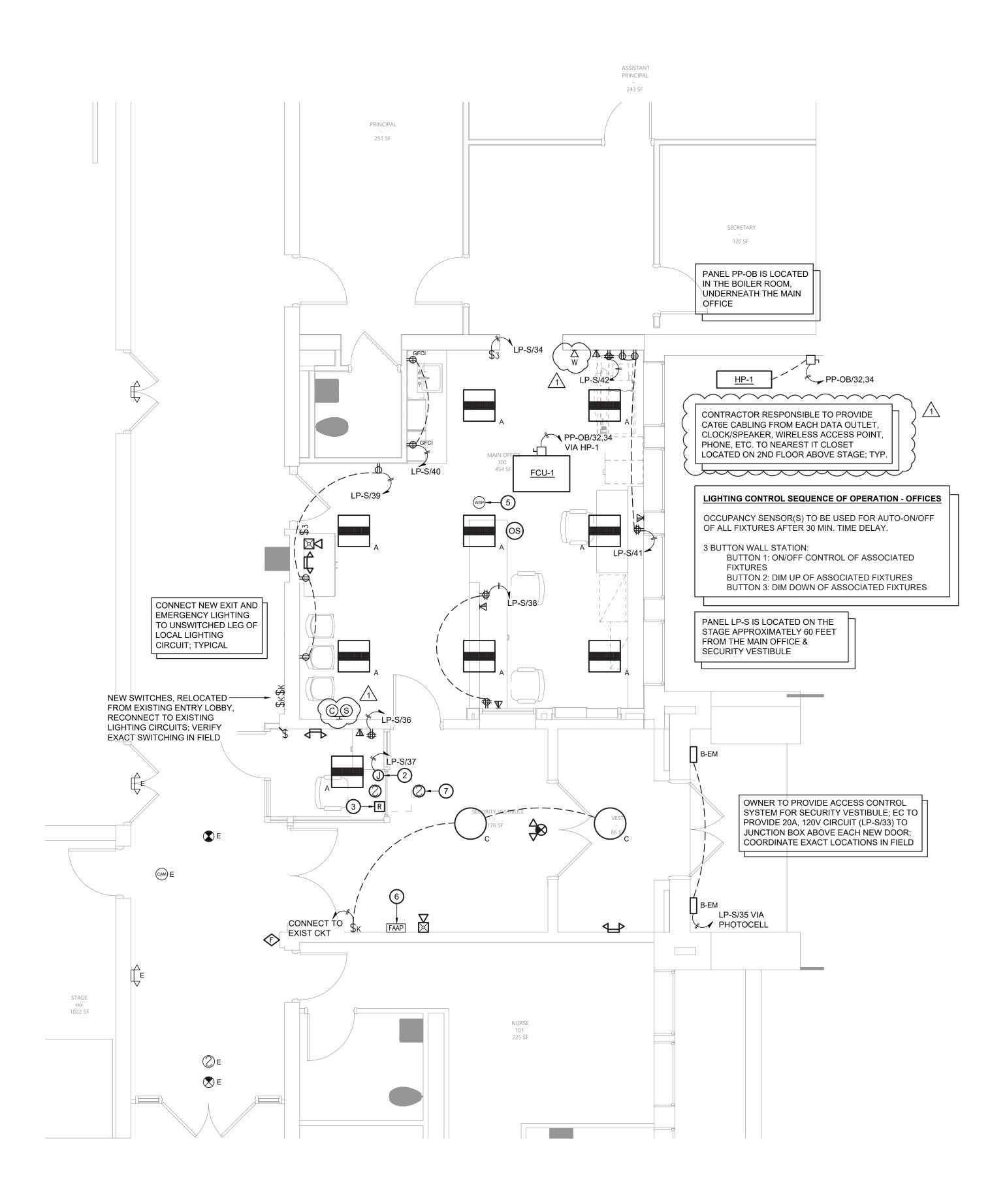
DATE DESCRIPTION Drawn By:

44-13-01-06-0-004-015 Proj. #: CSArch Proj. #: Issued for Bid:

ELECTRICAL NOTES, LEGENDS, **SCHEDULES &**

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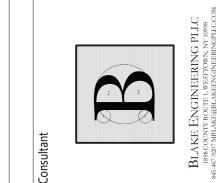
DETAILS

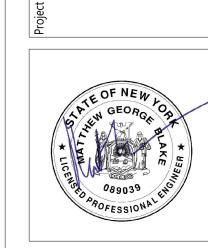


Electrical Plan E111 Scale: 1/4" = 1'-0"

Key Notes:

- EXISTING LIGHT FIXTURE TO REMAIN
- PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
- FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
- RELOCATE EXISTING LIGHT FIXTURE TO AVOID CONFLICT W/ NEW SECURITY OFFICE; CENTER FIXTURE IN VESTIBULE; EXTEND WIRING & CONDUIT FROM EXISTING CIRCUIT AS NECESSARY
- REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO EXISTING DATA CABLING
- EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING
- CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM





DESCRIPTION

44-13-01-06-0-004-015 : 187-2302.01

PLAN

DATE

