

ANNA H. ROCKWELL ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS

BETHEL PUBLIC SCHOOLS

400 WHITTLESEY DR, BETHEL, CT 06801

STATE PROJECT No: 009-0058-RNV

Owner: TOWN OF BETHEL	Construction Manager: RIZZO CORPORATION	Civil / Site / Landscape: MILONE & MACBROOM	Structural: DIVERSIFIED TECHNOLOGY CONSULTANTS	Mechanical, Electrical, Plumbing & Fire Protection: DIVERSIFIED TECHNOLOGY CONSULTANTS	Food Service: FOODSERVICE FACILITIES INTERNATIONAL	Technology / Security / AV: D'AGOSTINO & ASSOCIATES, LLC	Acoustical Consultant: ACENTECH
1 School Street, Bethel, CT 06801 203.794.8601	64 Triangle St, Danbury, CT 06810 203.731.3131	99 Realty Drive Cheshire, CT 06410 203.271.1773	2321 Whitney Avenue, Suite 301 Hamden, CT 06518 203.239.4200	2321 Whitney Avenue, Suite 301 Hamden, CT 06518 203.239.4200	137 Elm Place New Canaan, CT 06840 203.972.1605	1266 E. Main Street Stamford, CT 06902 203.539.6164	33 Moulton Street Cambridge, MA 02138 617.499.8000

GENERAL NOTES

- CODE COMPLIANCE REQUIREMENTS**
In order to meet the needs of persons with disabilities, when applicable, all fixtures, furnishings and equipment items shall comply with current Connecticut State Building Code including CC-PANCI A117.1-1996, Section 504 Rehabilitation Act 1973 including current ADA Standards for Accessible Design and Section 504 Regulations and the Americans with Disabilities Act Title II including the current ADA Standards for Accessible Design and ADA Regulations. Accessible knee and toe clearance shall comply with current ADA Standards for Accessible Design, Section 306. Compliance with the current Connecticut State Fire Safety Code and current O.S.H.A. - Title 29 / labor is also required. The items shall include, but are not limited to fixtures, furnishings, equipment, workstations (including built-ins), laboratory fume hoods, darkroom equipment, welding stations, shop equipment, etc.
- SECURE ATTACHMENT**
To ensure proper attachment of Fixtures, Furnishings & Equipment items, including Technology items, where "items" are intended for attachment to wall, ceiling, overhead structure, and / or floor, Contractor shall provide information adequate for Architect to verify that items attached to wall, ceiling, and / or floor are attached securely. Architect's review may be implemented during submittal process. Contract shall provide struts, hangers, fasteners, hangers, safety harnesses, channels, bolts, screws, rods, etc. to securely attach items to existing structure as required to meet field conditions and meet applicable codes.
- REFERENCE DRAWINGS**
Drawings marked "FOR REFERENCE ONLY" are provided for information and reference only.
- Comply with manufacturer's written installation instructions and recommendations.



NO.	DATE	ISSUE
3	NOV. 27, 2018	ADDENDUM #4
4	DEC. 4, 2018	ADDENDUM #5

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
[FACP]	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH 80 CHARACTER ALPHANUMERIC LCD DISPLAY
[FAA]	FIRE ALARM ANNUNCIATOR PANEL
[CM]	INTELLIGENT FIRE ALARM CONTROL MODULE MOUNT ABOVE NEAREST ACCESSIBLE CEILING
[MM]	INTELLIGENT FIRE ALARM MONITOR MODULE MOUNT ABOVE NEAREST ACCESSIBLE CEILING
[RTS]	REMOTE TEST SWITCH
[RM #]	REMOTE MICROPHONE
[]	FIRE ALARM STROBE INDICATING UNIT WALL MOUNT U.O.N. 80" AFF. # = cd (15cd UON)
[] #	FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNT U.O.N. 80" AFF. # = cd
[] WP	WEATHERPROOF FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNT U.O.N. 80" AFF. (75 cd)
[] C	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED # = cd
[] WG	FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNTED U.O.N. 80" AFF WITH WIREGUARD.
[]	MANUAL PULL STATION
[]	HEAT DETECTOR
[]	SMOKE DETECTOR
[]	SMOKE DETECTOR ELEVATOR RECALL
[]	DUCT SMOKE DETECTOR
[]	SMOKE / CO COMBINATION DETECTOR
[]	CARBON MONOXIDE DETECTOR
[]	SPRINKLER FLOW SWITCH
[]	SPRINKLER TAMPER SWITCH
[]	MAGNETIC HOLD OPEN
[FAGP]	FIRE ALARM GRAPHICS PANEL
[]	FIRE/ SMOKE DAMPER
[EVAC]	EVACUATION SYSTEM (RM- REMOTE MIC)
[FATP]	FIRE ALARM TRANSPONDER PANEL

FIRE ALARM SYSTEM NOTES	
1.	FIRE ALARM PARTIAL RISER DIAGRAM IS DIAGRAMMATIC - THE ELECTRICAL CONTRACTOR SHALL REFER TO PROJECT DRAWINGS FOR ADDITIONAL QUANTITY AND LOCATIONS OF DEVICES
2.	REFER TO ELECTRICAL SYMBOLS LEGEND FOR FIRE ALARM DEVICE INFORMATION.
3.	ALL WIRING SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND IN CONDUIT.
4.	ALL 120V POWER SHALL ORIGINATE FROM EMERGENCY CIRCUITS.
5.	EXISTING FIRE ALARM SYSTEM TO BE USED DURING PHASED CONSTRUCTION AND TO BE REMOVED WHEN NEW SYSTEM IS ONLINE AND FUNCTIONING.

ELECTRICAL DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
[]	SURFACE - MOUNTED PANELBOARD (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
[]	DUPLEX RECEPTACLE OUTLET (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
[]	QUADRUPEX RECEPTACLE OUTLET (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
[]	MOTOR
[S]	SWITCH: NORMAL
[]	WALL BRACKET FIXTURE
[]	FIRE ALARM PULL STATION
[]	FIRE ALARM HORN STROBE
[]	EXIT SIGN
[]	LIGHT FIXTURE
[]	LIGHTING FIXTURE: CEILING MOUNTED
[]	MAGNETIC DOOR HOLD
[]	HEAT DETECTOR
[]	EMERGENCY LIGHTING FIXTURE
[EM]	EMERGENCY LIGHTING MASTER PANEL
[FA]	FIRE ALARM MASTER PANEL
[]	DISCONNECT SWITCH
[]	SMOKE DETECTOR
[ANN]	FIRE ALARM ANNUNCIATOR
[]	SPECIAL PURPOSE RECEPTACLE (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
[]	FIRE ALARM BELL

ELECTRICAL DEMOLITION NOTES	
1.	EXISTING ELECTRICAL INFORMATION WAS OBTAINED FROM THE ELECTRICAL PLANS FROM ASSOCIATE DESIGN ENGINEERS DATED 02/16/1970 AND FROM LIMITED FIELD WORK
2.	ALL DEVICES SHOWN ON DEMOLITION SHEETS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE COMPLETE INCLUDING WIRING, CONDUIT, SUPPORTS, BOXES, ETC. TO SOURCE PANELBOARD. CONDUIT IN EXISTING WALLS OR FLOORS TO REMAIN SHALL BE CUT FLUSH AND WIRING TO BE REMOVED.
3.	DEMOLITION PLANS ARE DIAGRAMMATIC AND DO NOT DEPICT ENTIRE SCOPE OF WORK. ADDITIONAL WORK RELATED TO DEMOLITION MODIFICATIONS SHOULD BE EXPECTED.
4.	PRIOR TO BID, VISIT SITE AND IDENTIFY ANY EXISTING CONDITIONS THAT WILL AFFECT THE WORK TO BE PERFORMED.
5.	REMOVAL OF ANY ELECTRICAL MATERIAL SHALL INCLUDE THE REMOVAL OF ALL CONTROL, CONDUCTORS, AND CONDUIT (WHERE PRACTICAL) ASSOCIATED WITH MATERIALS, UNLESS OTHERWISE NOTED.
6.	ALL PCB CONTAMINATED BALLASTS TO BE REMOVED PER LOCAL, STATE, AND FEDERAL REGULATIONS
7.	IN ENTIRE BUILDING REMOVE ALL LIGHTING, RECEPTACLES, FIRE ALARM, DISCONNECTS, STARTERS, PANELS, ETC. AND ASSOCIATED WIRING, CONDUIT, ETC. BACK TO SOURCE.
8.	REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION PLANS FOR EQUIPMENT TO BE DEMOLISHED. REMOVE ALL STARTERS, DISCONNECTS AND ASSOCIATED WIRING FOR EQUIPMENT.
9.	REFER TO ARCHITECTS PLANS FOR ALL PHASING IN REGARDS TO DEMOLITION AND REMOVAL OF ELECTRICAL EQUIPMENT.
10.	CONTRACTOR TO PROVIDE BLANK COVER PLATE TO COVER EXISTING JUNCTION BOX FOR ALL DEVICES REMOVED DURING DEMOLITION PHASE IN BLOCK WALLS THAT ARE EXISTING TO REMAIN.

ELECTRICAL ABBREVIATIONS	
ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60HZ)
ACQ	AIR CONDITIONING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMP-FRAME
AFF	ABOVE FINISHED FLOOR
AT	AMP-TRIP
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
cd	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EX	EXISTING EQUIPMENT TO REMAIN
FOR	FEEDER
FT	FEET
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
HD	HAND HOLE
HP	HORSEPOWER
IN	INCHES
J	JUNCTION
KA	KILO AMPERE
Kcmils	THOUSAND CIRCUIT MILS
KV	KILOVOLT
KVA	KILO VOLT AMPERE
KW	KILO WATT
LTG	LIGHTING
M	METER
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MW	MICROWAVE OVEN
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS
NEMA	NATIONAL ELECTRICAL MANUFACTURERS
NEUT	NEUTRAL
NF	NOT FUSED
ND	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
OC	OVERCURRENT
P	POLE
PH	PHASE
PNL	PANELBOARD
PRI	PRIMARY
PWR	POWER
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
REF	REFRIGERATOR
RSC	RIGID STEEL CONDUIT
SC	SERVICE CONDUCTORS
SCHD	SCHEDULE
SCR	SHORT CIRCUIT RATING
SEC	SECONDARY
ST	SHUNT TRIP
SURF	SURFACE
SW	SWITCH
SYMB	SYMBOL
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNL	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERES
W	WATTS
WP	WEATHERPROOF
%	PERCENT
#	NUMBER
'	FEET

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
[]	SURFACE - MOUNTED PANELBOARD
[]	BRANCH CIRCUIT POWER WIRING
[]	BRANCH CIRCUIT HOME RUN (ARROW INDICATES CIRCUIT NUMBER)
[]	EMERGENCY BRANCH CIRCUIT POWER WIRING
[]	SPECIAL PURPOSE RECEPTACLE
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET ABOVE COUNTER AT 3'-6" (REFER TO ARCHITECTS PLANS FOR HEIGHT)
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTER
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET ABOVE COUNTER WITH GROUND FAULT CIRCUIT INTERRUPTER
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTER AND WEATHERPROOF ENCLOSURE
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET MOUNTED IN HUBBELL MODEL # FDS-2M BOX WITH WATERPROOF "WILE-IN USE COVER". ALL RECEPTACLES TO BE GFI, TWO THREADED IBC OR RMC CONDUIT (18" MAX.) TO BE STUBBED INTO BOX
[]	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE CEILING AT EVERY FAN COIL UNIT FOR CONDENSATE PUMP.
[]	TAMPER RESISTANT QUADRUPEX RECEPTACLE OUTLET FOR SMART BOARD. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
[]	TAMPER RESISTANT DUPLEX RECEPTACLE MOUNTED AT 66" AFF FOR TV. COORDINATE LOCATION WITH ARCHITECTURAL TV MOUNT
[]	TAMPER RESISTANT QUADRUPEX RECEPTACLE OUTLET
[]	TAMPER RESISTANT QUADRUPEX RECEPTACLE (FLOOR BOX) LEGRAND MODEL #RFB6-OG
[]	TAMPER RESISTANT QUADRUPEX RECEPTACLE (FLOOR BOX) COMBINATION WITH DATA, LEGRAND MODEL #RFB6-OG WITH 1" FOR DATA, STUBBED UP TO NEAREST WALL WITH NYLON PULLSTRING.
[]	TAMPER RESISTANT QUADRUPEX RECEPTACLE (POKE THROUGH) WITH OR WITHOUT DATA, LEGRAND MODEL #8ATC
[]	JUNCTION BOX
[]	JUNCTION BOX MOUNTED ABOVE CEILING FOR ATC CONTRACTOR
[]	JUNCTION BOX MOUNTED ABOVE CEILING FOR PLUMBING EQUIPMENT
[]	JUNCTION BOX MOUNTED ABOVE CEILING FOR PROJECTOR
[]	JUNCTION BOX WALL MOUNTED FOR IT DOOR POWER
[]	MOTOR
[]	EXTERNALLY OPERATED FUSIBLE SAFETY DISCONNECT SWITCH. OUTDOOR DISCONNECTS TO BE NEMA3R RATED
[]	UTILITY METER
[]	EXIT SIGN: WALL MOUNTED SINGLE FACED
[]	EXIT SIGN: WALL MOUNTED DOUBLE FACED
[]	EXIT SIGN: CEILING MOUNTED SINGLE FACED WITH DIRECTIONAL ARROW
[]	EXIT SIGN: CEILING MOUNTED DOUBLE FACED
[]	EXIT SIGN: WALL MOUNTED HANDICAPPED EXIT SIGN
[]	EXIT SIGN: WALL MOUNTED SINGLE FACED WITH DIRECTIONAL ARROW
[]	EXIT SIGN: WALL MOUNTED WITH WIRE GUARD
[S]	SWITCH: NORMAL TOGGLE
[S _{CPA}]	SWITCH: CALL FOR AID
[S _B]	SWITCH: BOILER SHUT OFF
[]	CALL FOR AID LIGHT FIXTURE
[]	ISIMET "LA SERIES" OR EQUAL EMERGENCY SHUT OFF SWITCH. SWITCH TO OPEN CONTACTOR FOR EQUIPMENT UNDER HOOD.

LIGHT FIXTURE LEGEND	
SYMBOL	DESCRIPTION
[]	1' X 4' RECESSED FIXTURE
[]	1' X 4' RECESSED FIXTURE CONNECTED TO GENERATOR (TYPICAL SHADED FIXTURE)
[]	2' X 2' RECESSED FIXTURE
[]	LINEAR STRIP FIXTURE
[]	PENDANT FIXTURE
[]	NARROW RECESSED LINEAR FIXTURE
[]	EXTERIOR WALL PACK FIXTURE
[]	RECESSED SQUARE CAN FIXTURE
[]	WALL WASHER FIXTURE
[]	SITE POLE FIXTURE
[]	PENDANT FIXTURE
[]	EMERGENCY FIXTURE

LIGHTING CONTROLS LEGEND	
SYMBOL	DESCRIPTION (REFER TO WIRING DIAGRAMS)
[S2]	SWITCH (2-BUTTON); LEGRAND #LMSW-102
[S5]	SWITCH (5-BUTTON); LEGRAND #LMSW-105
[P1]	SWITCH (PASSIVE INFRARED SENSOR); LEGRAND #PW-301 (1-BUTTON)
[P2]	SWITCH (PASSIVE INFRARED SENSOR); LEGRAND #PW-302 (2-BUTTON)
[BC]	DIGITAL NETWORK BRIDGE; LEGRAND #LMBC-300
[RC1]	DIGITAL ROOM CONTROLLER (1-ZONE); LEGRAND #LMRC-111
[RC2]	DIGITAL ROOM CONTROLLER (2-ZONE); LEGRAND #LMRC-112
[OS]	OCCUPANCY SENSOR: SHOWN IN CORNER; LEGRAND #LMDX-100, SHOWN IN CENTER OF ROOM: #LMDC-100
[OS] _{HB}	OCCUPANCY SENSOR HIGH BAY; LEGRAND #LMPC-100-5
[DL]	DAYLIGHT SENSOR; LEGRAND #MLMS-400
[EM]	EMERGENCY LIGHTING CONTROL UNIT; LEGRAND #ECLU-200
[IN]	DIGITAL INPUT INTERFACE; LEGRAND #LMIN-104
[SK]	ANALOG KEY SWITCH; LEGRAND #1250-L

ELECTRICAL GENERAL NOTES	
1.	UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
2.	ELECTRICAL PLANS, DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL THE CONDUIT BOXES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
3.	ALL EQUIPMENT AND MATERIAL SHALL BE LABELED, LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
4.	THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
5.	ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
6.	THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
7.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ANSINFPA 70 2017 EDITION.
8.	THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
9.	THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
10.	THE TERM "SPACE" ON PANELBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL THE NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE."
11.	COORDINATE ELECTRICAL WORK WITH OWNER.
12.	COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
13.	BEFORE SELECTING MATERIAL EQUIPMENT AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
14.	BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
15.	TYPICAL MOUNTING HEIGHTS OF DEVICES SHALL COMPLY NECA 1-2015.
16.	EXIT SIGNS AND EMERGENCY LIGHTING "EM" SHALL BE WIRED AHEAD OF LOCAL SWITCH CIRCUIT. LIGHT CONTACTOR, OR RELAY PANEL.
17.	ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE AND SMOKE RATED PARTITIONS WITH FIRE RATED MATERIAL EQUAL TO 3M FIRE BARRIER SEALANT CP 25WB+ AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
18.	ALL ELECTRICAL DEVICES ALONG A COMMON WALL SHALL BE INSTALLED IN SEPARATE STUD CAVITIES. NO BACK TO BACK INSTALLATIONS, FOR SOUND ATTENUATION PURPOSES.
19.	FURNISH AND INSTALL MEANS OF DISCONNECTION FOR ALL MOTORIZED EQUIPMENT AND APPLIANCES IN ACCORDANCE WITH NEC, SECTIONS 422-III AND 430-IX.
20.	BOND ALL STRUCTURAL STEEL TOGETHER ELECTRICALLY ACROSS ALL EXPANSION JOINTS AND STRUCTURAL GAPS.
21.	REFER TO TECHNOLOGY DRAWINGS BY D'AGOSTINO & ASSOCIATES REGARDING POWER AND CONDUIT REQUIRED LOCATIONS.
22.	ALL ELECTRICAL DEVICES AND ELECTRICAL EQUIPMENT WALL MOUNTED TO EXISTING BLOCK WALLS SHALL UTILIZE WIREMOLD V700 SERIES PATHWAY FROM CEILING TO DEVICE.

GENERAL NOTES - LIGHTING & POWER	
1.	ALL CIRCUITS ON THIS DRAWING SHALL BE SIZED 2#12, #12G, 3#4G AND SHALL BE CONNECTED TO A NEW 20A-1P CIRCUIT BREAKER IN SOURCE PANEL INDICATED UNLESS OTHERWISE NOTED.
2.	EXIT SIGNAGE SHALL BE WIRED TO LINE SIDE OF LOCAL LIFE SAFETY LIGHTING CIRCUIT, AHEAD OF ALL SWITCHED DEVICES.
3.	ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBERS(S).
4.	ALL OCCUPANCY SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED WHERE PENDANT MOUNTED FIXTURES ARE PRESENT.
5.	CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS OF OCCUPANCY SENSORS. VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6.	PROVIDE WIREMOLD V700 SERIES RACEWAY FOR ALL DEVICES IN FINISHED AREAS WHERE WIRING MUST BE EXPOSED. PROVIDE WIRING IN CONDUIT IN UNFINISHED AREAS WHERE WIRING MUST BE EXPOSED.
7.	ALL RECEPTACLES WITHIN KITCHEN SHALL BE GFCI PROTECTED.
8.	REFER TO KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENTS.
9.	ALL DATA DROPS TO BE LOCATED WITHIN 3'-0" OF AN OUTLET U.O.N.
10.	SEE MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT. ALL FAN COIL UNITS AND VAV BOXES TO HAVE LOCAL DISCONNECT SWITCH TO ISOLATE POWER FROM EACH UNIT SEPARATELY.

COORDINATION NOTES	
1.	LOCATIONS SHOWN ARE NOT ALL INCLUSIVE AND SHALL BE COORDINATED WITH TECHNOLOGY CONSULTANT AND SECURITY CONSULTANTS DRAWINGS.
2.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF RACEWAYS (CONDUITS, EMT, CABLE TRAYS, WIRE MOLD, TROUGH, ETC.), SYSTEM JUNCTION AND PULL BOXES, AND DEVICE ROUGH-IN BOXES FOR ALL COMMUNICATIONS AND SECURITY SYSTEM WORK SHOWN ON THE COMMUNICATIONS AND SECURITY DRAWINGS. CONDUIT, BACK-BOX, AND TROUGH WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, WORKING WITH AND UNDER SUPERVISION OF THE COMMUNICATION AND THE SECURITY CONTRACTORS.
3.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING 120VAC POWER FOR HOOK-UP TO ANY COMMUNICATIONS, SECURITY SYSTEM, AND FIRE ALARMS EQUIPMENT REQUIRING IT.
4.	EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE WIRED TO THE NEAREST EMERGENCY CIRCUIT AHEAD OF ANY SWITCHING.

ELECTRICAL SHEET INDEX	
SHEET	NAME
E-001	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
ES-101	ELECTRICAL SITE PLAN
ED-101A	ELECTRICAL DEMOLITION LEVEL 1 AND 2 PART PLAN A
ED-101B	ELECTRICAL DEMOLITION LEVEL 1 PART PLAN B
ED-102A	ELECTRICAL DEMOLITION ROOF LEVEL PART PLAN A
ED-102B	ELECTRICAL DEMOLITION ROOF LEVEL PART PLAN B
EL-101A	ELECTRICAL LIGHTING LEVEL 1 AND 2 PART PLAN A
EL-101B	ELECTRICAL LIGHTING LEVEL 1 PART PLAN B
EP-101A	ELECTRICAL POWER LEVEL 1 AND 2 PART PLAN A
EP-101B	ELECTRICAL POWER LEVEL 1 PART PLAN B
EP-102A	ELECTRICAL POWER ROOF LEVEL PART PLAN A
EP-102B	ELECTRICAL POWER ROOF LEVEL PART PLAN B
E-201	ELECTRICAL LIGHTNING PROTECTION ROOF PLAN
E-202	ELECTRICAL ENLARGED KITCHEN PLAN
E-401	ELECTRICAL RISER DIAGRAM
E-402	FIRE ALARM RISER DIAGRAM
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	ELECTRICAL SCHEDULES
E-603	ELECTRICAL SCHEDULES
E-604	ELECTRICAL SCHEDULES

KEY PLAN

PERKINS EASTMAN
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PROJECT TITLE:

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 ELEMENTARY
 SCHOOL ADDITIONS
 & RENOVATIONS**
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 06801

STATE PROJECT No: 009-0058-RNV

PROJECT No: 68961.00

DRAWING TITLE:
**ELECTRICAL NOTES,
 LEGENDS &
 ABBREVIATIONS**

SCALE: N.T.S.

E-001

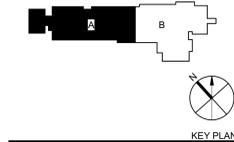
CONSTRUCTION DOCUMENTS
 CONFORMED SET 2/28/2019
 JULY 20, 2018

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GENERAL POWER NOTES

- ALL RECEPTACLES AND DEVICES MOUNTED TO EXISTING BLOCK WALLS TO UTILIZE SURFACE MOUNTED RACEWAY. WHERE POSSIBLE, CONTRACTOR TO RUN WIRE INSIDE WALLS AND MOUNT DEVICES FLUSH TO WALL. REFER TO ARCHITECTURAL PLANS FOR WALL TYPES AND LOCATIONS WHERE NEW WALLS ARE TO BE INSTALLED.

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Acoustical Consultant:
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 617.499.8000

PROJECT TITLE:
**ANNA H. ROCKWELL
 ELEMENTARY
 SCHOOL ADDITIONS
 & RENOVATIONS**
 400 WHITTLESEY DR. BETHEL, CT
 06801

STATE PROJECT NO: 009-0058-RNV

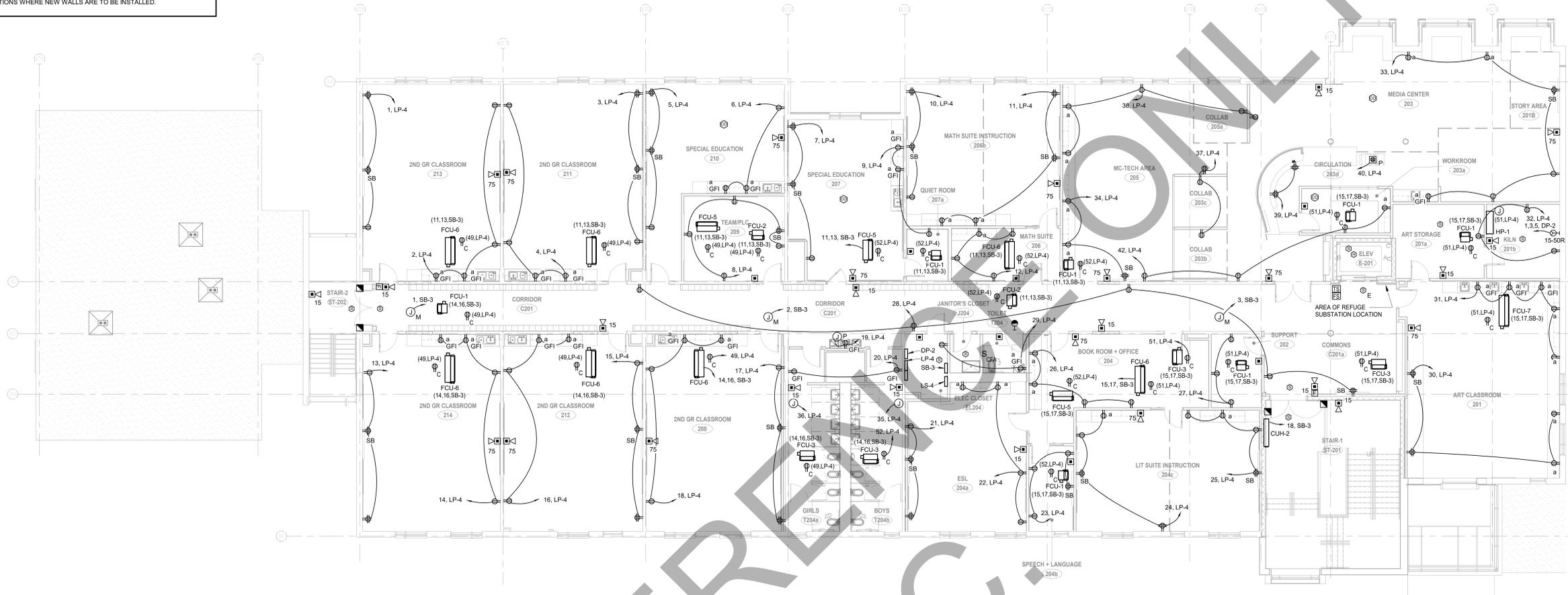
PROJECT NO: 68961.00

DRAWING TITLE:
**ELECTRICAL POWER
 LEVEL 1 AND 2 PART
 PLAN A**

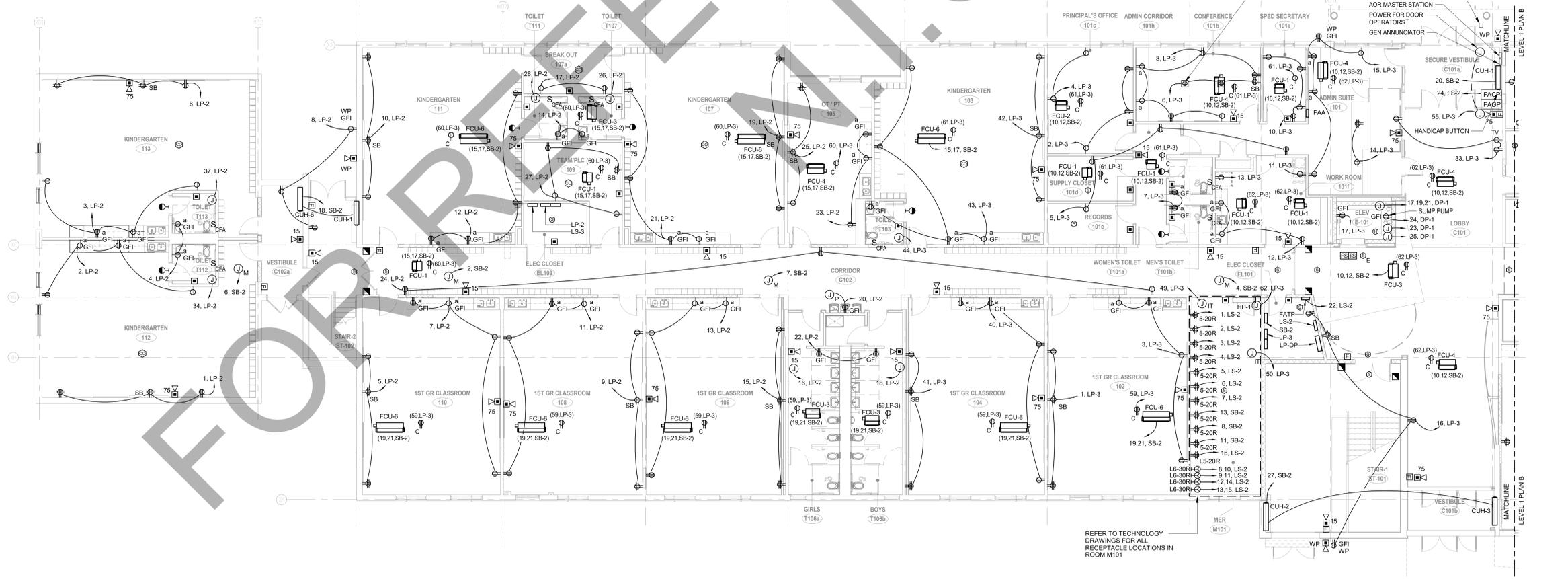
SCALE: As indicated

EP-101A

**CONSTRUCTION DOCUMENTS
 CONFORMED SET 2/28/2019
 JULY 20, 2018**



2 ELECTRICAL POWER LEVEL 2 PART PLAN A
 1/8" = 1'-0"



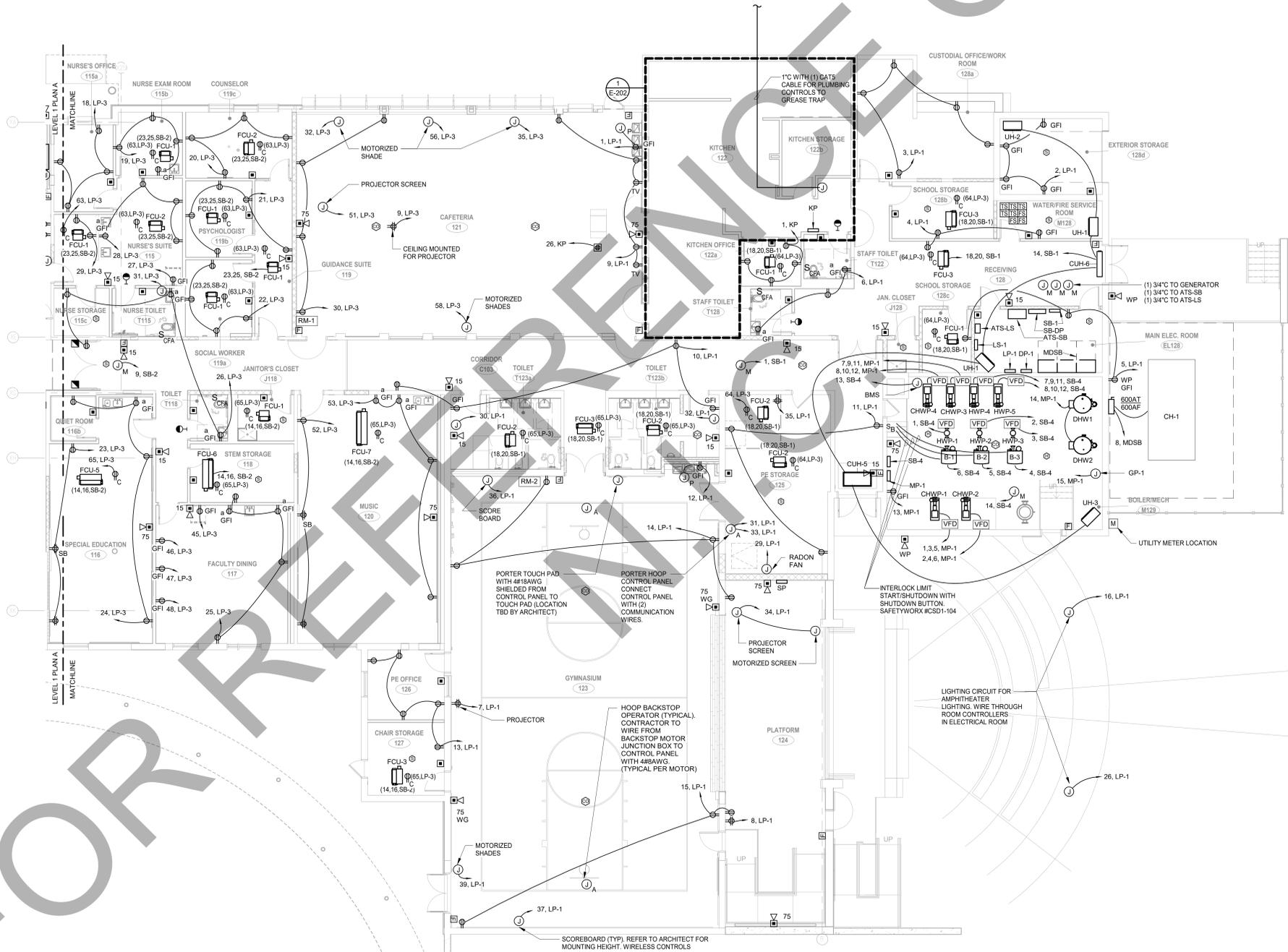
1 ELECTRICAL POWER LEVEL 1 PART PLAN A
 1/8" = 1'-0"

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NO.	DATE	ISSUE
3	NOV. 27, 2018	ADDENDUM #4
4	DEC. 4, 2018	ADDENDUM #5

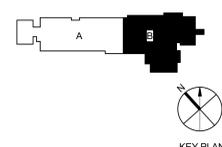
GENERAL POWER NOTES

1. ALL RECEPTACLES AND DEVICES MOUNTED TO EXISTING BLOCK WALLS TO UTILIZE SURFACE MOUNTED RACEWAY. WHERE POSSIBLE, CONTRACTOR TO RUN WIRE INSIDE WALLS AND MOUNT DEVICES FLUSH TO WALL. REFER TO ARCHITECTURAL PLANS FOR WALL TYPES AND LOCATIONS WHERE NEW WALLS ARE TO BE INSTALLED.



1 ELECTRICAL POWER LEVEL 1 PART PLAN B
1/8" = 1'-0"

SEAL



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PROJECT TITLE:
**ANNA H. ROCKWELL
ELEMENTARY
SCHOOL ADDITIONS
& RENOVATIONS**
400 WHITTLESEY DR. BETHEL, CT
06801

STATE PROJECT No: 009-0058-RNV
PROJECT No: 68961.00

DRAWING TITLE:
**ELECTRICAL POWER
LEVEL 1 PART PAN B**

SCALE: As indicated

EP-101B

CONSTRUCTION DOCUMENTS
CONFORMED SET 2/28/2019
JULY 20, 2018

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COMMUNICATION CABLING INFRASTRUCTURE

SYMBOL	DESCRIPTION	OUTLET BOX - CONDUIT SIZES										CABLE - TERMINATION					COMMENTS		
		1G-2-1/2" DP	1G-3-1/2" DP	2G-2-1/2" DP	2G-3-1/2" DP	4G-2-1/2" DP	4G-4"x2-1/8" DP	1G DEVICE RING	2G DEVICE RING	3/4" C	1" C	1-1/4" C	1-1/2" C	CAT 6A PLENUM CABLE	RJ45 JACK - CAT 6A	RJ45 PLUG - CAT 6A		FACEPLATE - DATA	WALL PHONE M/G PLATE
W	Wall Outlet	1											1	1					Mounting Height 46" AFF
1D	1 Data Outlet			1									1	1	1				Mounting Height 18" AFF unless otherwise noted.
2D	2 Data Outlet			1									2	2	1				Mounting Height 18" AFF unless otherwise noted.
3D	3 Data Outlet			1									3	3	1				Mounting Height 18" AFF unless otherwise noted.
4D	4 Data Outlet			1									4	4	1				Mounting Height 18" AFF unless otherwise noted.
1V1D	1 Voice - 1 Data Outlet			1									2	2	1				Mounting Height 18" AFF unless otherwise noted.
1V2D	1 Voice - 2 Data Outlet			1									3	3	1				Mounting Height 18" AFF unless otherwise noted.
2V2D	2 Voice - 2 Data Outlet			1									4	4	1				Mounting Height 18" AFF unless otherwise noted.
1V	1 Voice Outlet			1									1	1	1				Mounting Height 18" AFF unless otherwise noted.
2V	2 Voice Outlet			1									2	2	1				Mounting Height 18" AFF unless otherwise noted.
3V	3 Voice Outlet			1									3	3	1				Mounting Height 18" AFF unless otherwise noted.
#V #D	Floor Box								A/R				A/R	A/R	1				Floor Box to be sized to accommodate cable & power # - Denotes Qty of Cables
AP	Wireless Access Point Ceiling Mounted													2	2				Ceiling mounted AP shall have a 20ft service loop and located at approximate locations shown on plans. For exterior mounted AP's see indoor / outdoor rated cable, provide weatherproof 1" sleeve, provide 4" SQ box, provide weatherproof cover plate to box.
AP	Wireless Access Point Wall Mounted	1												2	2				

AUDIO VISUAL

SYMBOL	DESCRIPTION	DEVICE	OUTLET BOX - CONDUIT SIZES										CABLE - TERMINATION					COMMENTS		
			1G-2-1/2" DP	1G-3-1/2" DP	2G-2-1/2" DP	2G-3-1/2" DP	4G-2-1/2" DP	4"x4"x4" DP	1G DEVICE RING	2G DEVICE RING	JUNCTION BOX/A/R	3/4" C	1" C	1-1/4" C	1-1/2" C	CAT 6A CABLE PLENUM	CNTRL CABLE (RS232) (PLENUM)		RJ45 JACK - CAT 6A	FACEPLATE - DATA
D	Display Location	Display NIC Ethernet by Contractor Awarded this Project			1															This location requires a 3D outlet. Refer to Detail #1, T204 for mounting requirements.
A	AV Outlet	AV Outlet Box																		Mounting Height 18" AFF unless otherwise noted.
A1	AV Outlet	AV Outlet Box																		Refer to Detail #1, T204 for mounting requirements.
c	AV Outlet	AV Outlet Box			1															Mounting Height 42" AFF
MON	Monitor Location	Refer to T201 Monitor NIC			1															Mounting Height 72" AFF or as Otherwise Noted. See Note #2, Ethernet by contractor awarded this project.
B	AV Outlet	AV Outlet Box			1															Mounting Height 42" AFF
T	AV Outlet	AV Outlet Box			1															Refer to Detail #1, T204 for mounting requirements.
E	AV Outlet	AV Outlet Box			1															Mount Transmitter 18" AFF
F	AV Outlet	AV Outlet Box			1															Mounting Height 42" AFF
Sp	Wall Mount Speaker Outlet	AV Outlet Box			1															Contractor shall install public address feed off of nearby public address speaker as if to daisy-chain future public address speaker. Coil 10' worth of public address cable, label, and secure above ceiling for future speaker. Mounting Height 78" AFF Unless otherwise noted.
Ss	Wall Mount Speaker Outlet	AV Outlet Box			1															Mounting Height 78" AFF Unless otherwise noted.
LSS	AV Cabinet Location	Cabinet NIC AV Cabling NIC																		Mounting Height 48" AFF. Unless otherwise noted. Coordinate nearby power & data at this box. Contractor shall install public address feed off of nearby public address speaker as if to daisy-chain future public address speaker. Coil 10' worth of public address cable, label, and secure in flush-mount wall box.

CONDUIT SIZE	NO. OF BENDS		
	0	1	2
1"	6	5	4
1 1/2"	10	8	7
2"	13	11	9
2 1/2"	22	19	15
3"	28	32	27
3 1/2"	57	49	40
4"	75	64	52
	96	82	67

*CALCULATION BASED UPON 40% FILL @ 0.28 INCH CABLE O.D.

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

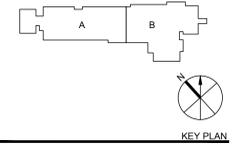
- 3.5mm
- AFF ABOVE FINISH FLOOR
- A/C ABOVE COUNTER
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- AWG AMERICAN WIRE GAUGE
- BICS BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
- BNC BAYONET NEIL-CONCELMAN CONDUIT(S)
- C DEMARCATION
- DPDT DOUBLE PULL DOUBLE THROW
- EIA ELECTRONICS INDUSTRIES ALLIANCE
- EMT ELECTRICAL METALLIC TUBING
- FACP FIRE ALARM CONTROL PANEL
- F FACSIMILE (FAX)
- HDMI HIGH DEFINITIONS MEDIA INTERFACE
- LAN LOCAL AREA NETWORK
- MER MAIN EQUIPMENT ROOM
- NEC NATIONAL ELECTRIC CODE
- NIC NOT IN CONTRACT
- OFE OWNER FURNISHED EQUIPMENT
- PA PUBLIC ADDRESS
- PBX PRIVATE BRANCH EXCHANGE
- PC PERSONAL COMPUTER
- Poe POWER OVER ETHERNET
- PP PATCH PANEL
- PVC POLYVINYL CHLORIDE CONDUIT
- QTY QUANTITY
- STP SHIELDED TWISTED PAIR
- TBB TELECOMMUNICATIONS BONDING BACKBONE
- TIA TELECOMMUNICATIONS GROUNDING BUSBAR
- TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
- TWGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- TR TELECOMMUNICATIONS ROOM
- TV TELEVISION
- TYP TYPICAL
- UPS UNINTERRUPTIBLE POWER SUPPLY
- USB UNIVERSAL SERIAL BUS
- UTP UNSHIELDED TWISTED PAIR
- VGA VIDEO GRAPHICS ARRAY
- VoIP VOICE OVER INTERNET PROTOCOL
- W WALL TELEPHONE (VOICE)
- WAN WIDE AREA NETWORK
- WAO WORK AREA OUTLET
- WAP WIRELESS (DATA) ACCESS POINT
- WG WIRE GUARD
- WP WEATHERPROOF
- XFRM TRANSFORMER
- XMTR TRANSMITTER

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
4. CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
5. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
6. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 4" INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
7. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
8. USE ONLY PLENUM RATED CABLES.
9. DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
10. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
11. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
12. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTIES.
13. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
14. DEVICE CABLEING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 24 PORT, CATEGORY 6A RATED PATCH PANEL.
15. THE FOLLOWING CABLEING SHALL BE TERMINATED ONTO ITS OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
 - 15.1. ALL STUDENT AND CLASSROOM SPACES
 - 15.2. ALL ADMINISTRATION AREAS AND OFFICES
 - 15.3. ALL WIRELESS AP'S
 - 15.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
16. SPEAKER CABLEING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
17. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO CONSTRUCTION.
19. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
20. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS.
21. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECT/CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
22. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
23. ALL EXISTING LOW VOLTAGE TERMINATION DEVICES & CABLEING SHALL BE REMOVED & DISCARDED FROM THIS FACILITY.
24. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
25. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLEING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
26. ALL CABLEING SHALL BE LABELED AT BOTH ENDS.
27. SEISMIC PERFORMANCE: ALL WALL MOUNTED DEVICES SHALL BE MOUNTED, SECURED AND INSTALLED IN ACCORDANCE WITH SEI/ASCE 7 AND SHALL ADDITIONALLY WITHSTAND THE EFFECTS OF ANY MOTIONS WITHIN THE BUILDING AS DETERMINED BY SEI/ASCE 7.
28. THE TERM "WITHSTAND" MEANS THE UNITS ILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS FROM THE DEVICE WHEN SUBJECTED TO SEISMIC FORCES SPECIFIED AND THE UNIT WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT.
29. ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

PUBLIC ADDRESS - CLOCKS

SYMBOL	DESCRIPTION	PLENUM RATED CABLE A/R			PRODUCT	COMMENTS
		2G-2-1/2" DP	1G DEVICE RING	3/4" C		
S	PA Speaker	1			Corridors: 8" Speakers, Classrooms: 2x2 Drop-in Ceiling Speakers - Refer to Specifications for Product Description	Contractor shall install plenum rated speaker cable with 20' service loop to connect future priority override speakers. This is required in all classrooms and conference rooms.
S	PA Speaker	1			12" SQ. Wall Mounted Speaker - Refer to Specification for Product Description	
PA	PA Master Handset BOGEN #MCD54	1	1	1	Cabling A/R - Refer to Specification for Product Description	
B	PA Call Switch BOGEN #CA15C	1	1	1	Button Shall Activate 2-Way Conversations Between Classroom Speakers and Main Office. Cabling A/R	Mounting Height 46" AFF unless otherwise noted.
VC	Wireless Clock PA Volume Control BOGEN #AT10A	1	1	1	12" Clock Unless Otherwise Noted on Plans - Refer to Specification for Product Description Volume Control Shall Control the Speakers Shown Within the Same Room. - Refer to Specification for Product Description	Refer to Detail 1, T204. Coordinate location with Architect. Mount @ 48" AFF to center of device
PA	PA Horn	1	1	1	Speaker / Horn - Interior / Exterior - Refer to Specification for Product Description	Secure horns to structure. Exterior horns shall receive proper weather proofing assembly.
PA	PA Strobe	1	1	1	Public Address Strobe. Refer to written specifications for device list and configuration requirements.	Mount Strobe @ 96" AFF
PS	PA Pendant Speaker BOGEN #MPS1B	1			Cabling A/R Confirm Color With Architect Install so speaker is 6" above of wood slat ceiling	Contractor awarded this project shall cut 37" x 37" square from acoustic barrier above slatted ceiling, where required, to allow sound from the speaker to travel through the slatted ceiling unimpeded. Install per manufacturer recommendations. Include main drop cable and safety cable to anchor point.



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ROCKWELL ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
400 WHITTESEY DR, BETHEL, CT 06810

STATE PROJECT No: 009-0058-RNV

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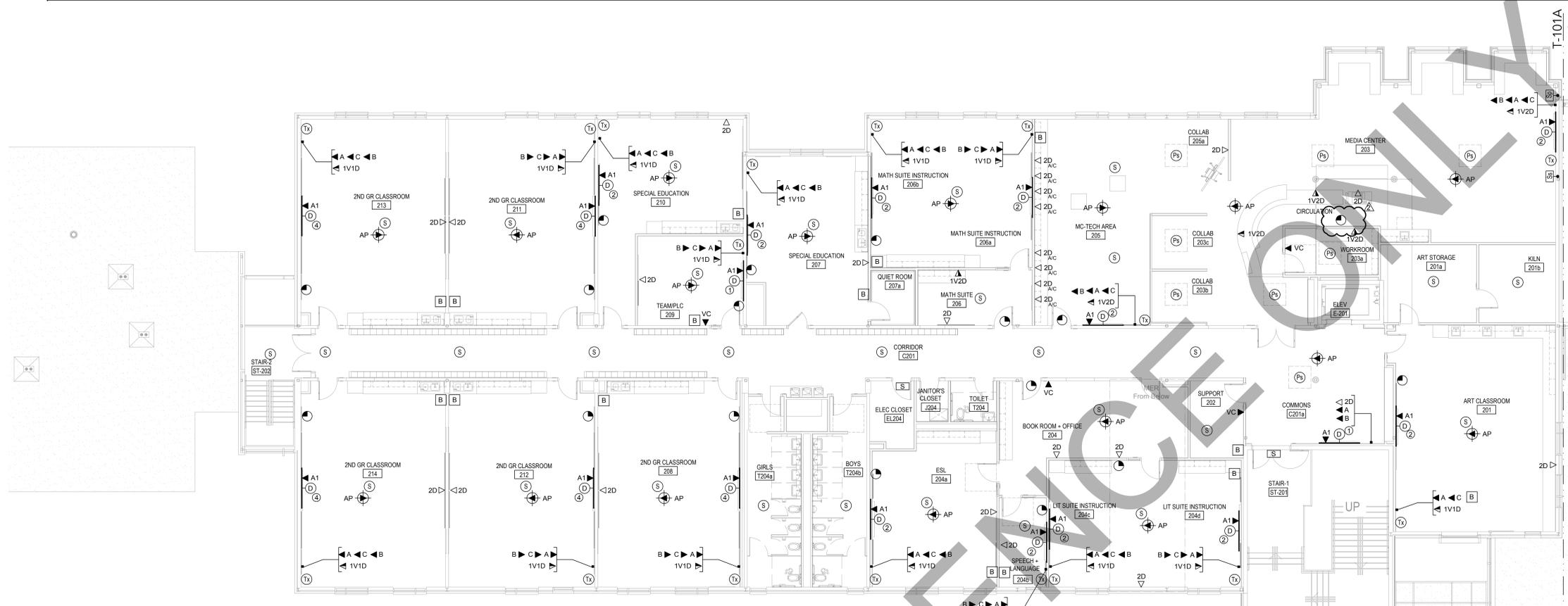
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TECHNOLOGY
SYMBOL LEGEND & GENERAL NOTES
SCALE:

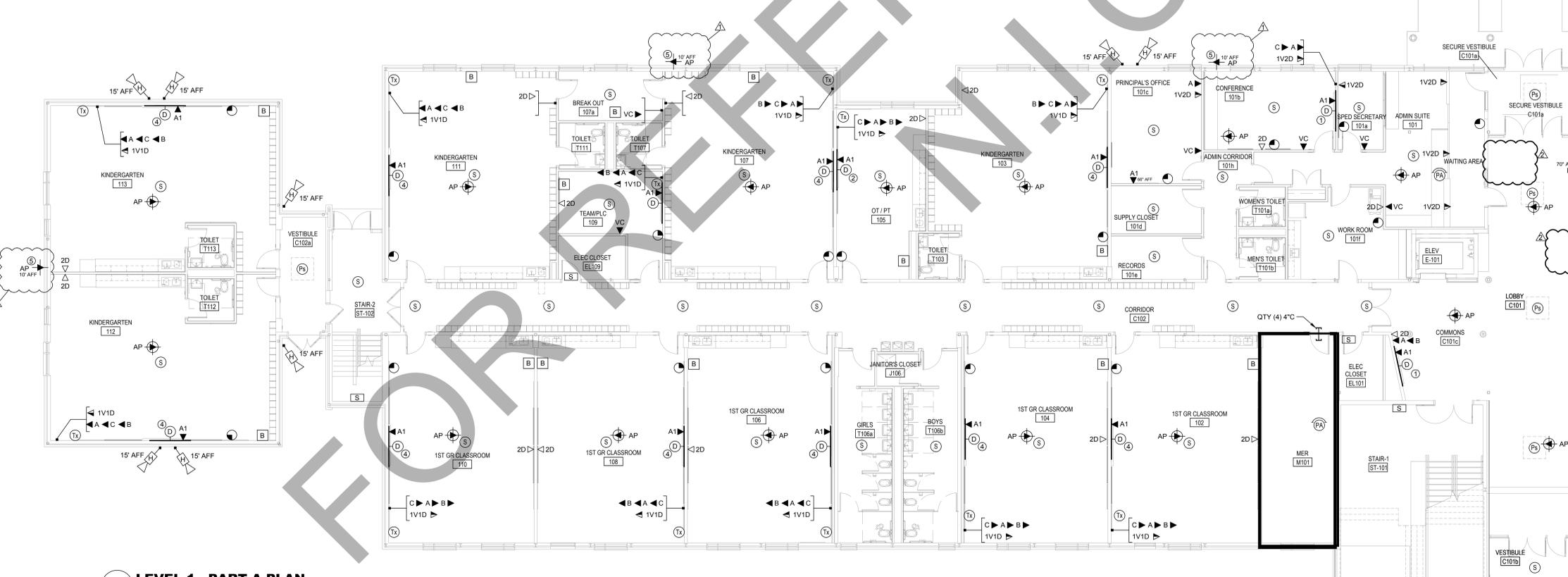
T-001

CONSTRUCTION DOCUMENTS

JULY 20, 2018



2 LEVEL 2 - PART A PLAN
1/8" = 1'-0"



1 LEVEL 1 - PART A PLAN
1/8" = 1'-0"

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- ALL COMMUNICATION OUTLETS MUST CONFORM WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
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- ALL CABLING SHALL BE LABELED AT BOTH ENDS.
- SECURE ATTACHMENT OF TECHNOLOGY ITEMS:
To ensure proper attachment of Fixtures, Furnishings & Equipment items, including and Technology items, where "Items" are attached to wall, ceiling, overhead structure, and/or floor, Contractor shall provide information adequate for architect to verify items, attached to wall, ceiling, and/or floor are attached securely and per manufacturer's recommendations. Architect's review may be implemented during submittal process.
Contractor shall provide studs, hangers, fasteners, safety harnesses, channels, bolts, screws, rods, etc. to securely attach items to existing structure as required to meet field conditions and meet applicable codes.

KEY NOTES

- VIVITEK #LK7530
CHIEF#XTM1U
MOUNT BOARD AT 3'AFF TO BOTTOM OF BOARD.
- VIVITEK #LK7530
SALAMANDER #ML-145
REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
- VIVITEK #LK8630
CHIEF#XTM1U
MOUNT BOARD AT 3'AFF TO BOTTOM OF BOARD.
- VIVITEK #LK8630
SALAMANDER #ML-1260
REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
- USE INDOOR / OUTDOOR RATED CABLE PROVIDE 1" CONDUIT AND 4" SQ BOX WEATHERPROOF SLEEVE. ADD WEATHERPROOF COVER PLATE TO BOX.

NO. DATE ISSUE
1 11/28/18 ADDENDUM #3
2 12/06/18 ADDENDUM #5

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DRAWING TITLE:
TECHNOLOGY

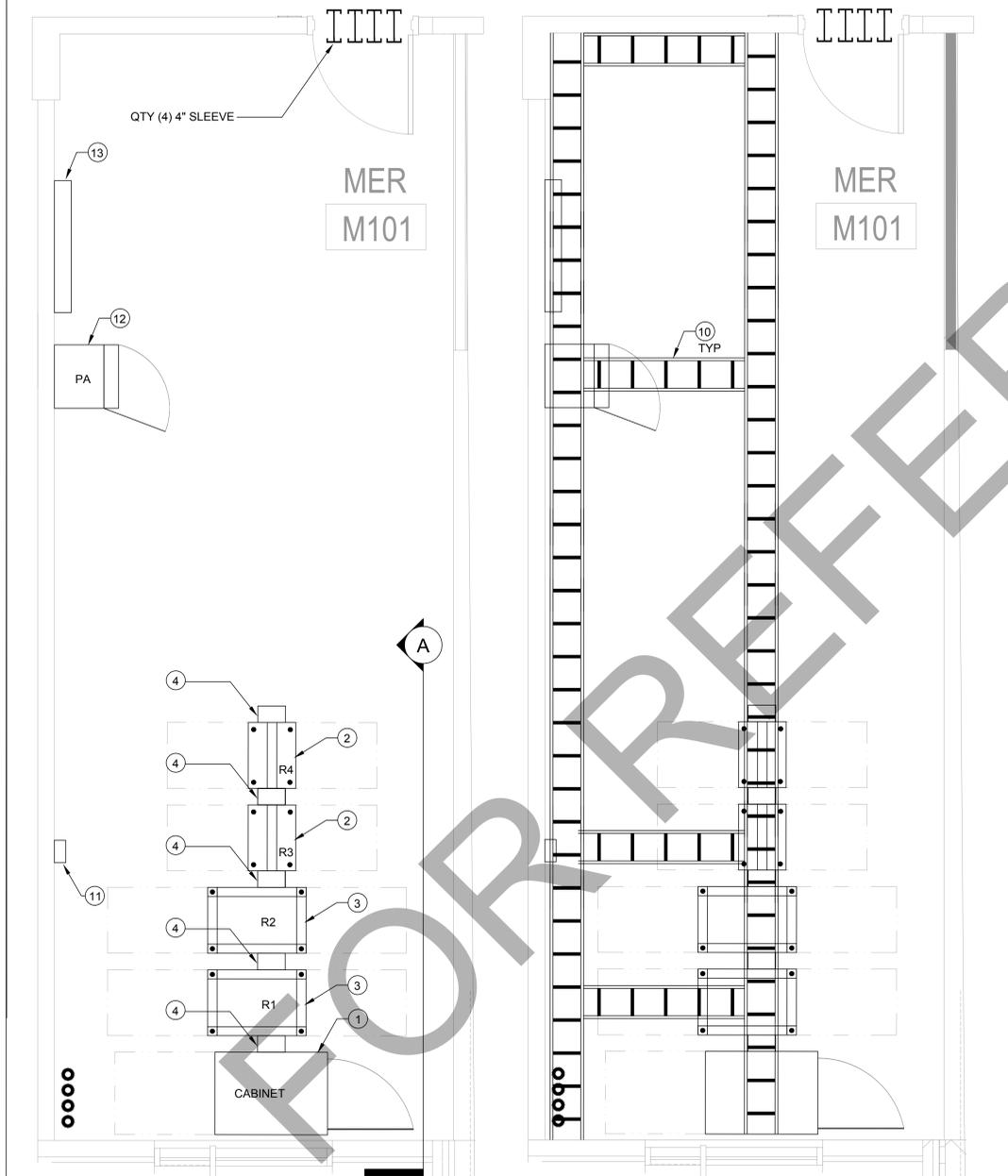
LEVEL 1 & 2
PART A PLANS
SCALE: 1/8" = 1'-0"

T-101A
CONSTRUCTION DOCUMENTS

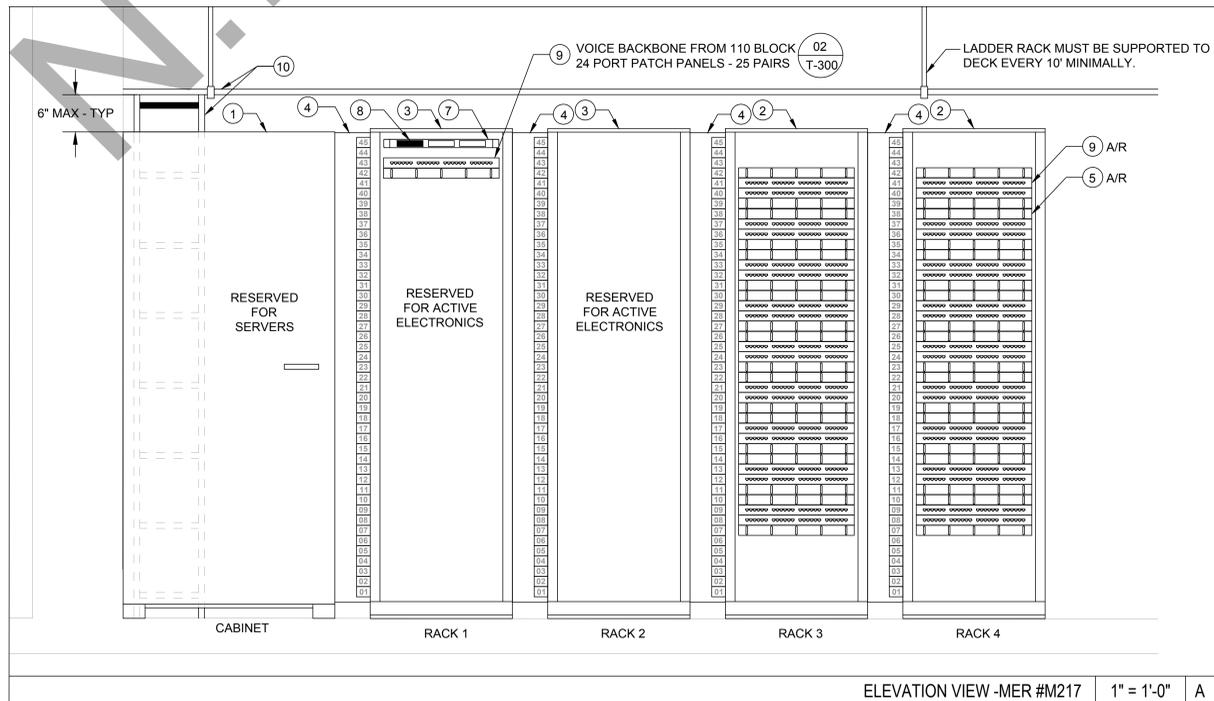
JULY 20, 2018

PRODUCT DESCRIPTION		
ITEM	DESCRIPTION	MANUFACTURER #
1	SERVER CABINET 84"H x 30"W x 42"D	HUBBELL #H2N8442
2	2 - POST EQUIPMENT RACK - 19" WIDE x 84" HIGH - 45 RU's	HUBBELL #HPW84RR19
3	4 - POST EQUIPMENT RACK - 19" WIDE x 84" HIGH - 45 RU's	HUBBELL #SF841936T
4	6" WIDE VERTICAL WIRE MANAGEMENT - 84"HIGH - 48 RU's	HUBBELL #VS76
5	HORIZONTAL WIRE MANAGERS 1RU	HUBBELL #HM24
6		
7	FIBER OPTIC CABINET - 1RU F.O. CABINET, OPT-X 1000i	HUBBELL #FCR1USP
8	LC ADAPTER PLATES, 6-LC DUPLEX (12 FIBERS), MM, COLOR AQUA	HUBBELL #FPLSCDM6AQ
9	24 PORT CAT 6, 1RU, HIGH DENSITY PATCH PANELS	HUBBELL #HP6A24
10	12" WIDE LADDER RACK	HUBBELL #HLS1012B
11	100 PR, 110 STYLE, CAT 5E WIRING BLOCK W/ CLIPS & LEGS	HUBBELL #110BLK100FTK4
12	PUBLIC ADDRESS WALL CABINET AND EQUIPMENT	AS SPECIFIED
13	SECURITY PANELS - REFER TO DETAIL 4, SHEET Y201	AS SPECIFIED

PRODUCT LIST NONE 01



PRODUCT LIST NONE 02

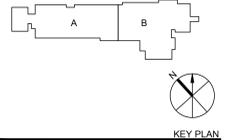


ELEVATION VIEW-MER #M217 1" = 1'-0" A

NO. DATE ISSUE



SEAL



PERKINS EASTMAN
 Owner:
BETHEL PUBLIC SCHOOLS
 1 School Street, Bethel,
 CT 06801 203.794.8601

Construction Manager:
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 64 Triangle St. Danbury,
 CT 06810 203.731.3131

Civil / Site / Landscape:
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 Cheshire, CT 06410
 203.271.1773

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 203.239.4200

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 203.539.6164

Acoustical Consultant:
ACENTECH
 33 Moulton Street
 Cambridge, MA 02138
 617.499.8000

PROJECT TITLE:
ROCKWELL ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
 400 WHITTLESEY DR, BETHEL, CT 06801

STATE PROJECT No: 009-0058-RNV
 PROJECT No: 68961.00

DRAWING TITLE:
TECHNOLOGY

EQUIPMENT ROOM LAYOUT

SCALE:

T-200

CONSTRUCTION DOCUMENTS

JULY 20, 2018

PRODUCT DESCRIPTION		
ITEM	DESCRIPTION	MANUFACTURER #
1	DATA JACK (BLUE), CLARITY 6A TRACJACK, T568B	HUBBELL #HJ6AB
2	VOICE JACK (WHITE), CLARITY 6A TRACJACK, T568B	HUBBELL #HJ6AW
3	BLANK INSERT	HUBBELL #SFBX10
4	F-TYPE CONNECTOR COUPLER	HUBBELL #SFFGxx
5	SINGLE GANG FACEPLATE, TWO-PORT OPENING	HUBBELL #IFP120xx
6	SINGLE GANG FACEPLATE, FOUR-PORT OPENING	HUBBELL #IFP140xx
7	106 TYPE FRAME TO MOUNT DATA JACKS	HUBBELL #Q1060
8	WALL MOUNTING, PHONE PLATE	HUBBELL #P630S1G
9	RJ45 PLUG FOR WIRELESS ACCESS POINT, CATEGORY 6A, T568B	HUBBELL #BRMOD4PSN25

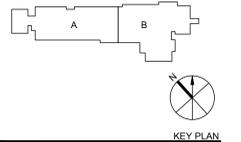
- NOTES:**
- ALL LABELING SHALL BE DESCRIBED PER THE OWNER PRIOR TO INSTALLATION.
 - COLOR OF ALL FACEPLATES AND TERMINATION CONNECTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

SYMBOL: 1D		SYMBOL: 2D		SYMBOL: 3D		SYMBOL: 4D		SYMBOL: AP		SYMBOL: AP							
DATA OUTLET	NONE	2	DATA OUTLET	NONE	3	DATA OUTLET	NONE	4	DATA OUTLET	NONE	5	WAP - WALL MOUNTED	NONE	6	WAP - CEILING MOUNTED	NONE	7
SYMBOL: 1V		SYMBOL:		SYMBOL:		SYMBOL: MON		SYMBOL:		SYMBOL:							
PRODUCT MANUFACTURER & PART NUMBERS	NONE	1	VOICE OUTLET	NONE	8			9			10	MONITOR OUTLET	NONE	11			12
SYMBOL: W		SYMBOL: 1V1D		SYMBOL: 1V2D		SYMBOL: 2V2D		SYMBOL:		SYMBOL:							
CABLING SUPPORT - J-HOOK INSTALLATION - TYP	NONE	13	WALL PHONE OUTLET	NONE	14	VOICE - DATA OUTLET	NONE	15	VOICE-DATA OUTLET	NONE	16	VOICE-DATA OUTLET	NONE	17			18
SYMBOL:		SYMBOL:		SYMBOL:		SYMBOL:		SYMBOL:		SYMBOL:							
PRIMARY CABLING PATHWAY - CABLE TRAY DETAIL	NONE	19	PENETRATION - FIRESTOP DETAIL	NONE	20	COMMUNICATION OUTLET & CONDUIT RACEWAY INSTALLATION	NONE	21	VERTICAL LADDER RACK INSTALLATION	NONE	22						

NO. DATE ISSUE



SEAL



Owner:
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1 School Street, Bethel, CT 06801 203.794.8601

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PROJECT TITLE:

ROCKWELL ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
400 WHITTESEY DR, BETHEL, CT 06801

STATE PROJECT No: 009-0058-RNV

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TECHNOLOGY

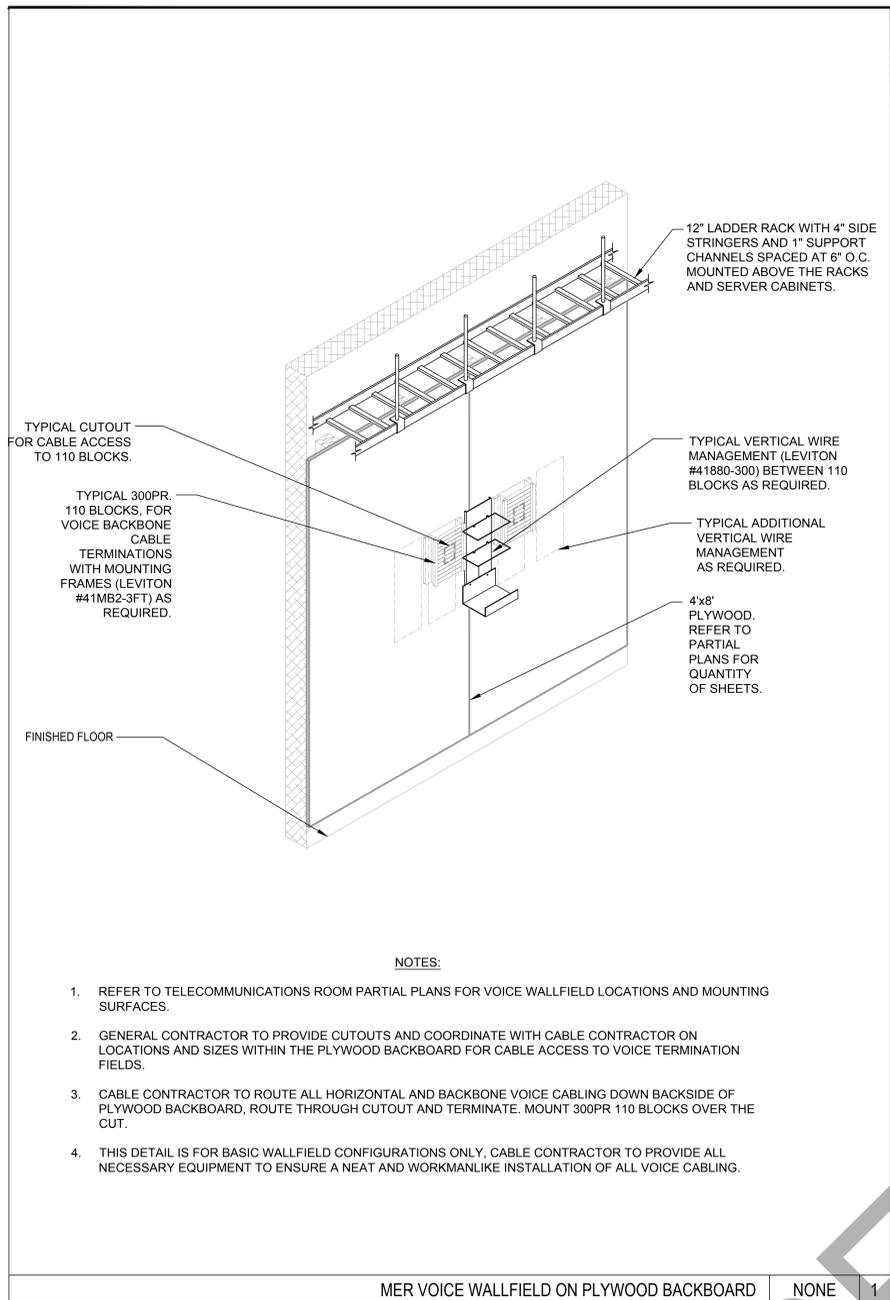
DETAILS

SCALE:

T-201

CONSTRUCTION DOCUMENTS

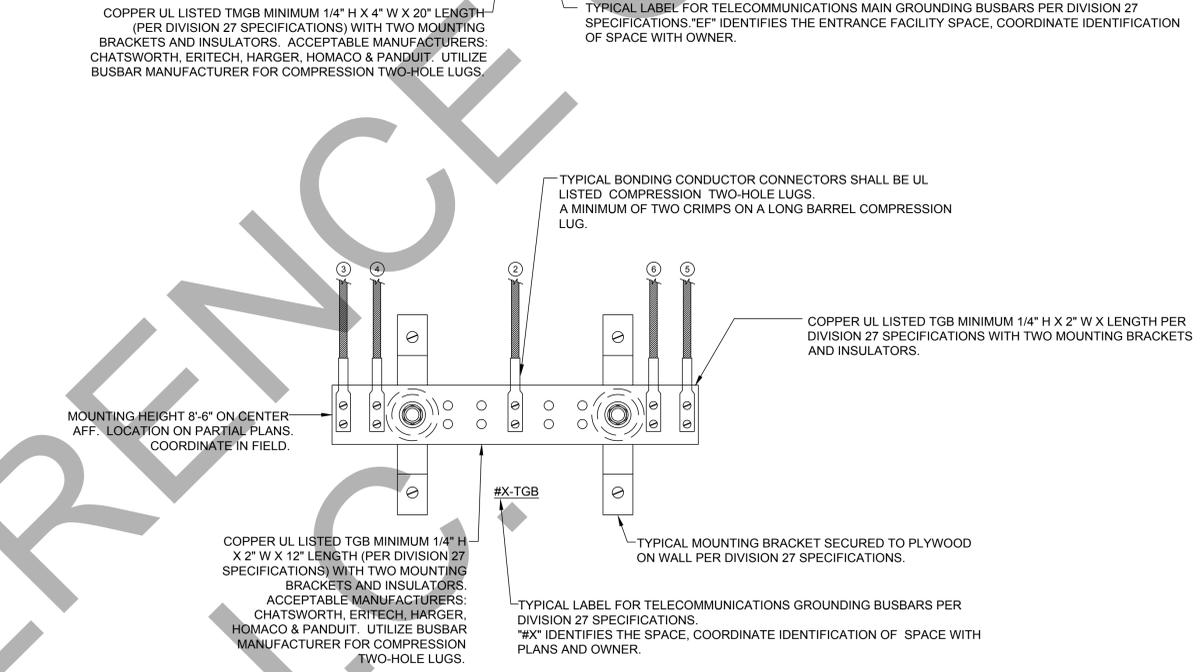
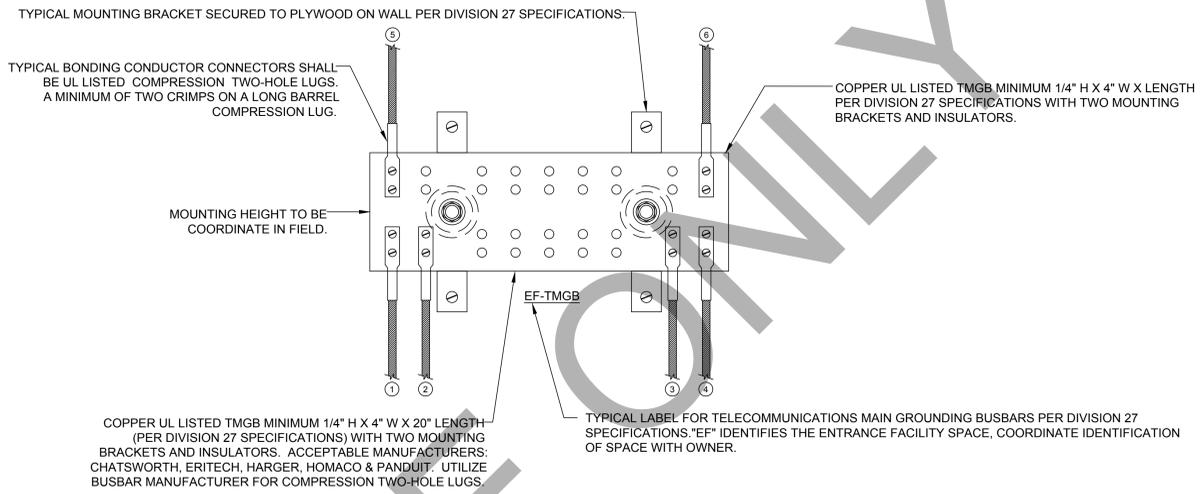
JULY 20, 2018



NOTES:

- REFER TO TELECOMMUNICATIONS ROOM PARTIAL PLANS FOR VOICE WALLFIELD LOCATIONS AND MOUNTING SURFACES.
- GENERAL CONTRACTOR TO PROVIDE CUTOUTS AND COORDINATE WITH CABLE CONTRACTOR ON LOCATIONS AND SIZES WITHIN THE PLYWOOD BACKBOARD FOR CABLE ACCESS TO VOICE TERMINATION FIELDS.
- CABLE CONTRACTOR TO ROUTE ALL HORIZONTAL AND BACKBONE VOICE CABLING DOWN BACKSIDE OF PLYWOOD BACKBOARD, ROUTE THROUGH CUTOUT AND TERMINATE. MOUNT 300PR 110 BLOCKS OVER THE CUT.
- THIS DETAIL IS FOR BASIC WALLFIELD CONFIGURATIONS ONLY, CABLE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO ENSURE A NEAT AND WORKMANLIKE INSTALLATION OF ALL VOICE CABLING.

MER VOICE WALLFIELD ON PLYWOOD BACKBOARD	NONE	1
--	------	---



LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

GROUNDING & BONDING RISER/DETAIL NOTES

- REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDED 2" C SLEEVE PATHWAY AT EACH FLOOR AND WALL PENETRATIONS FOR THE TELECOMMUNICATION BONDING BACKBONE (TBB). COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED PER DIVISION 07 SPECIFICATIONS.
- BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
- FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
- BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-A.
- BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-A) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
 - H.1 THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
 - H.2 EACH TGB AND THE NEAREST GROUNDING ELECTRODE.
 - H.3 EACH TGB AND PATHWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT.

DRAWING NOTES

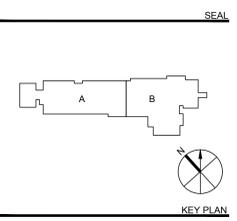
- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
- BCT TO NEAREST BUILDING STEEL STRUCTURE, IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
- BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUND BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUND BUS.
- TELECOMMUNICATION BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE. REFER TO RISER DIAGRAM.
- TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB. REFER TO RISER DIAGRAM.
- BCT TO TELECOMMUNICATIONS CABLE RUNWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO THE DEDICATED HOMERUN BCT BACK TO THE TGB. SEE DETAILS.

TELECOMMUNICATIONS PATHWAY GROUNDING AND BONDING DETAILS	NONE	2
--	------	---

NO. DATE ISSUE

d'agostino & ASSOCIATES
Technology - Security - Audio Visual
1206 EAST MAIN STREET SUITE 700B STAMFORD, CT 06802
TEL: 203.539.6164 FAX: 203.539.6001

1000 LAFAYETTE BLVD. SUITE 1100 BRIDGEPORT, CT 06604



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400 WHITTLESEY DR, BETHEL, CT 06801

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DRAWING TITLE:
TECHNOLOGY

DETAILS

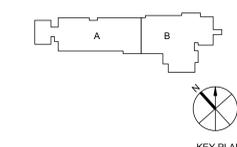
SCALE:
T-203

CONSTRUCTION DOCUMENTS

JULY 20, 2018



SEAL



Owner:
BETHEL PUBLIC SCHOOLS
 1 School Street, Bethel, CT 06801 203.731.3131

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PROJECT TITLE:

ROCKWELL ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
 400 WHITTLESEY DR, BETHEL, CT 06801

STATE PROJECT No: 009-0058-RNV

PROJECT No: 68961.00

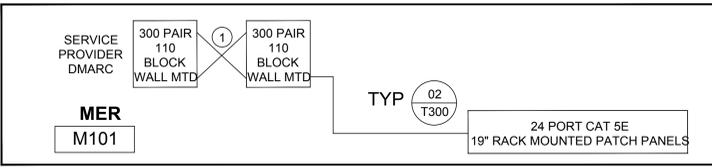
DRAWING TITLE:
TECHNOLOGY

BACKBONE & PA WIRING
 SCALE:

T-300

CONSTRUCTION DOCUMENTS

JULY 20, 2018

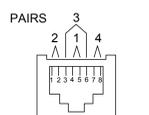


FIRST LEVEL

① CROSS CONNECTION OF ALL PAIRS TO BE PERFORMED BY CONTRACTOR AWARDED THIS PROJECT.

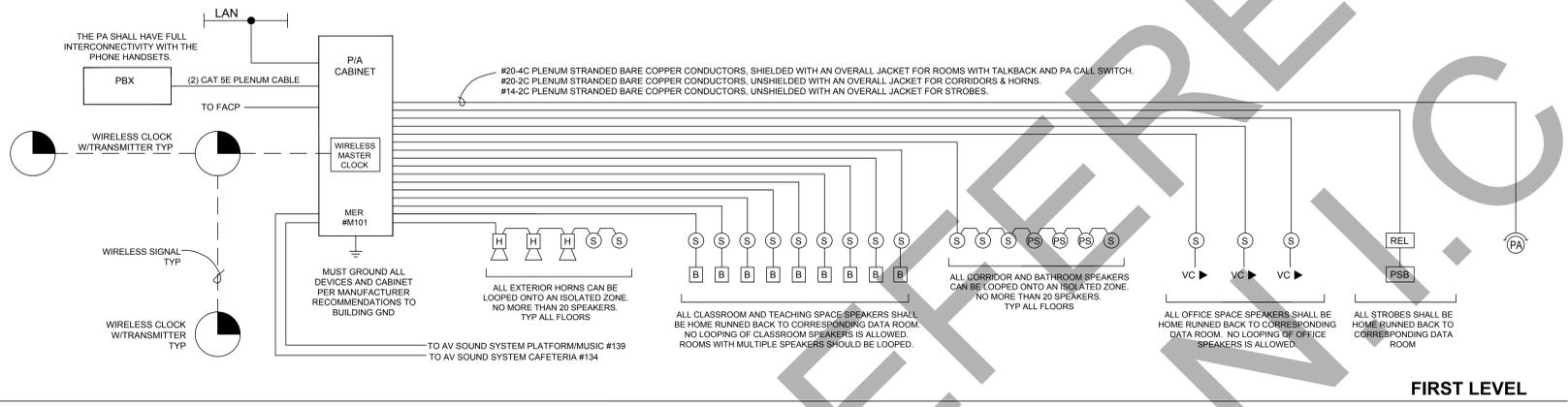
WIRING DETAIL - VOICE BACKBONE NONE 01

25 PAIR, CAT 5E PLENUM CABLE			25 PAIR, CAT 5E PLENUM CABLE		
PAIR #	COLOR	24 PORT PATCH PANEL	PAIR #	COLOR	24 PORT PATCH PANEL
1	WHITE/BLUE - BLUE/WHITE	JACK 1, PAIR #1	14	BLACK/BROWN - BROWN/BLACK	JACK 14, PAIR #1
2	WHITE/ORANGE - ORANGE/WHITE	JACK 2, PAIR #1	15	BLACK/GRAY - GRAY/BLACK	JACK 15, PAIR #1
3	WHITE/GREEN - GREEN/WHITE	JACK 3, PAIR #1	16	YELLOW/BLUE - BLUE/YELLOW	JACK 16, PAIR #1
4	WHITE/BROWN - BROWN/WHITE	JACK 4, PAIR #1	17	YELLOW/ORANGE - ORANGE/YELLOW	JACK 17, PAIR #1
5	WHITE/GRAY - GRAY/WHITE	JACK 5, PAIR #1	18	YELLOW/GREEN - GREEN/YELLOW	JACK 18, PAIR #1
6	RED/BLUE - BLUE/RED	JACK 6, PAIR #1	19	YELLOW/BROWN - BROWN/YELLOW	JACK 19, PAIR #1
7	RED/ORANGE - ORANGE/RED	JACK 7, PAIR #1	20	YELLOW/GRAY - GRAY/YELLOW	JACK 20, PAIR #1
8	RED/GREEN - GREEN/RED	JACK 8, PAIR #1	21	VIOLET/BLUE - BLUE/VIOLET	JACK 21, PAIR #1
9	RED/BROWN - BROWN/RED	JACK 9, PAIR #1	22	VIOLET/ORANGE - ORANGE/VIOLET	JACK 22, PAIR #1
10	RED/GRAY - GRAY/RED	JACK 10, PAIR #1	23	VIOLET/GREEN - GREEN/VIOLET	JACK 23, PAIR #1
11	BLACK/BLUE - BLUE/BLACK	JACK 11, PAIR #1	24	VIOLET/BROWN - BROWN/VIOLET	JACK 24, PAIR #1
12	BLACK/ORANGE - ORANGE/BLACK	JACK 12, PAIR #1	25	VIOLET/GRAY - GRAY/VIOLET	SPARE - COIL @ PANEL
13	BLACK/GREEN - GREEN/BLACK	JACK 13, PAIR #1			



PAIR	PIN
1	5
	4
2	1
	2
3	3
	6
4	7
	8

PIN TERMINATION - VOICE BACKBONE NONE 01



FIRST LEVEL

- NOTES:**
- ALL PUBLIC ADDRESS CABLING FOR DEVICES SHALL BE CABLED TO THE DATA ROOMS AS INDICATED ON THE CABLE DECLINATIONS FOR LOW VOLTAGE CABLING.
 - RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
 - REFER TO SPECIFICATIONS FOR SYSTEM DESCRIPTION, SEQUENCE OF OPERATION AND OF WIRING.
 - FOR MICROPHONE CABLE RUNS, MAINTAIN A CLEARANCE OF A MINIMUM OF 12" FROM CONDUIT AND CABLES USED FOR ELECTRICAL POWER DISTRIBUTION. WHERE THIS IS NOT FEASIBLE, CROSS HIGHER VOLTAGE LINES PERPENDICULARLY.
 - ALL PENETRATION THROUGH FIRE RATED WALLS SHALL BE SEALED WITH AN APPROVED FIRE STOPPING MATERIAL.
 - SPEAKER CONDUCTORS INSTALLED IN ROOMS OF INSTRUCTION AND OFFICES SHALL BE ONE CONTINUOUS HOME RUN TO THE CENTRAL CONTROL RACK. NO SPLICES SHALL BE ALLOWED.
 - THIS RISER DIAGRAM IS SHOWN AS REFERENCE TO INDICATE LOOPING AND ZONING REQUIREMENTS. ACTUAL QUANTITIES MUST BE CONFIRMED BY THE BIDDING CONTRACTOR AND BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS, T-SERIES.
 - PA SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 2010 OR THE MOST CURRENT FIRE CODE STANDARD ADOPTED BY THE STATE OF CONNECTICUT.
 - THE FIRE ALARM CONNECTION WITH THE PA SYSTEM SHALL BE COORDINATED WITH OWNER, FIRE ALARM INSTALLER, SECURITY CONSULTANT, AND PA DESIGNER.
 - PRIORITY OVERRIDE LOADS IN EACH INTERACTIVE DISPLAY LOCATION MUST BE CALCULATED INTO THE PUBLIC ADDRESS AMPLIFIER LOADS.
 - A 1 WATT REPEATER SHALL BE INCLUDED IN EACH DATA LOCATION.
 - REFER TO WRITTEN SPECIFICATION FOR PA STROBE DEVICES, WIRING, AND POWER REQUIREMENTS.
 - PUBLIC ADDRESS STROBES SHALL BE POWERED REMOTELY FROM THE TELECOMMUNICATION CLOSET FOR THE WIRELESS CLOCK SYSTEM.

PUBLIC ADDRESS WIRING DIAGRAM NONE 02

AUDIO VISUAL

SYMBOL	DESCRIPTION	DEVICE	CABLE - TERMINATION										COMMENTS		
			CAT 6A CABLE PLENUM	CNTRL CABLE (RS232) (PLENUM)	RJ45 JACK - CAT 6A	FACEPLATE - DATA	CRESTRON APPROVED PLENUM RATED CAT 6A	HDMI CONNECTOR w/ SPECIFIED CABLE	SPEAKER CABLE AVR	3.5mm Jack w/ SPECIFIED CABLE	USB FEMALE CONNECTOR w/ SPECIFIED CABLE	AV FACEPLATE			
D-I	Interactive Display Data Outlet Behind Board Display Mount	Refer to specification 27 41 00 for interactive display and mount types.													Data Outlet & Cabling is Required for Interactive Display. Refer to drawings and specification for mounting information and display mount part number. Display must be coordinated with Architectural elevations.
A	Teacher Location A/V Interface Plate	HDMI, 3.5mm, Data Jack, USB, refer to T201.	1							1		1	1	1	Mounting Height 18" A.F.F. unless otherwise noted. Refer to wiring diagrams and written specifications for specific requirements.
A1	Projector Location A/V Interface Plate	HDMI, 3.5mm, Data Jack, USB, refer to T201.	2							1		1	1	1	Mounting Height 84" A.F.F. unless otherwise noted. Refer to wiring diagrams and written specifications for specific requirements.
Sp	Classroom Amplified Speaker	OWI #AMP-HD25IC6													Ceiling mounted. Refer to wiring diagram and written specification for all requirements and associated devices.
Sa	Classroom Secondary Speaker	OWI #IC6													Ceiling mounted. Refer to wiring diagram and written specification for all requirements and associated devices.
C	Blank Plate	Blank 2-G Plate													Mounting Height 42" A.F.F. See AV wiring diagrams
MIC	Microphone Input Plate	Proco #WVP1004													
B	Classroom Volume Control	OWI #MC4	1												Mounting Height 42" A.F.F. Refer to specification for configuration description.
Tx	Blank Plate	Blank 1-G Plate										1			Ceiling Mount ALS Transmitter Refer to specification for configuration and cable requirements.
E	AV Transmitter	Crestron #HD-MD-300-C-E-B								1					Mount Transmitter 18" A.F.F. Mount Receiver at Projector. Refer to Det. 2, T301
F	AV Button Controller	Crestron #MPC3-302-B								1					Mounting Height 42" A.F.F. Refer to Det. 2, 301
	Wireless Mic Antenna	Shure #UA820													
Sp	Classroom Amplified Speaker - Wall Mount	OWI #AMPLV602											A/R		Mounting Height 66" A.F.F. Include Priority Override from Public Address System
Ss	Classroom Secondary Speaker - Wall Mount	OWI #P602											A/R		
G	Gym Speaker	EV #SX100											A/R		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
GB	Gym Speaker	EV #SX100											A/R		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
GC	Gym Speaker	EV #SX100											A/R		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
M	Music Room Speaker	Fulcrum Acoustic #DX-896											A/R		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
C	Cafeteria Speaker	EVID 6.2											A/R		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
LSSA	Local Sound System Cabinet	Middle Atlantic #ERK-4425-AV													Refer to wiring diagram for additional requirements.
LSSB	Local Sound System Cabinet	Middle Atlantic #OWR-18-32PD													Refer to wiring diagram for additional requirements.
LSSC	Local Sound System Cabinet	Middle Atlantic #EWR-12-22SD													Refer to wiring diagram for additional requirements.
P	Large Format Projector	Vivitek #DU8090Z										1	1		Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
T	Assisted Listening XMTR Voice Uplift Wireless Mic.	OWI #RKTSM-LT-84 OWI #IR20REC-KIT										1			
	OWNER FURNISHED DISPLAY														Contractor is responsible for installation of this owner furnished display.
MON	65" Display	ViewSonic #CD38502 Chief #XTM1U													

TELEPHONE / HANDSET

SYMBOL	DEVICE
PH-W	NEC #DTL-2DE, 2 BUTTON TELEPHONE WITH WALL MOUNTING PLATE
PH-A	NEC #DTL-12D, 12 BUTTON DISPLAY TELEPHONE
PH-B	NEC #DTL-24D, 24 BUTTON DISPLAY TELEPHONE

TELEPHONE / HANDSET NOTES:
 1. REFER TO WRITTEN SPECIFICATION FOR SERVER, VOICE MAIL AND INSTALLATION INFORMATION.
 2. THE FOLLOWING QUANTITIES OF EXISTING TELEPHONES ARE CURRENTLY ON SITE AND SHALL BE REUSED TO SUPPLEMENT THE TOTAL QUANTITY OF HANDSETS INDICATED ON THE PLANS:
 2.1. PH-A QTY (8) SHALL BE REUSED
 2.2. PH-B QTY (2) SHALL BE REUSED
 2.3. PH-W QTY (9) SHALL BE REUSED
 3. INCLUDE ALL REQUIRED PATCH CABLES BETWEEN TELEPHONE AND VOICE JACK.

WIRELESS ACCESS POINT

SYMBOL	DEVICE
AP	AS SPECIFIED
AP	AS SPECIFIED
AP	AS SPECIFIED

TECHNOLOGY ABBREVIATIONS

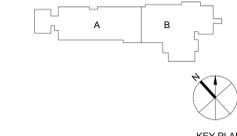
(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

3.5mm	3.5MM JACK PLUG (AUDIO)
AFF	ABOVE FINISH FLOOR
ANC	ABOVE COUNTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN CONDUITS)
C	CEILING
DEMARC	DEMARCATION
DPDT	DOUBLE PULL DOUBLE THROW
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACEPLATE (FAX)
HDMI	HIGH DEFINITIONS MEDIA INTERFACE
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
OFPE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QTY	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
W	WALL
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XMTR	TRANSMITTER

GENERAL NOTES

- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
- ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
- LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
- CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
- USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
- ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 4" INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
- ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
- USE ONLY PLENUM RATED CABLES.
- DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
- MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
- COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
- OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTIES.
- SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
- DEVICE CABLEING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 24 PORT, CATEGORY 6A RATED PATCH PANEL.
- THE FOLLOWING CABLEING SHALL BE TERMINATED ONTO ITS OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
 15.1. ALL STUDENT AND CLASSROOM SPACES
 15.2. ALL ADMINISTRATION AREAS AND OFFICES
 15.3. ALL WIRELESS AP'S
 15.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
- SPEAKER CABLEING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
- LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNERS APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS.
- ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECT. CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
- PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
- ALL EXISTING LOW VOLTAGE TERMINATION DEVICES & CABLEING SHALL BE REMOVED & DISCARDED FROM THIS FACILITY.
- ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
- ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLEING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
- ALL CABLEING SHALL BE LABELED AT BOTH ENDS.
- SEISMIC PERFORMANCE: ALL WALL MOUNTED DEVICES SHALL BE MOUNTED, SECURED AND INSTALLED IN ACCORDANCE WITH SEIASCE 7 AND SHALL ADDITIONALLY WITHSTAND THE EFFECTS OF ANY MOTIONS WITHIN THE BUILDING AS DETERMINED BY SEIASCE 7.
- THE TERM "WITHSTAND" MEANS THE UNITS WILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS FROM THE DEVICE WHEN SUBJECTED TO SEISMIC FORCES SPECIFIED AND THE UNIT WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT."
- ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

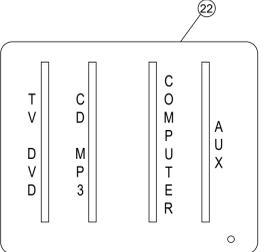
NO.	DATE	ISSUE
1	11/20/18	ADDENDUM #4



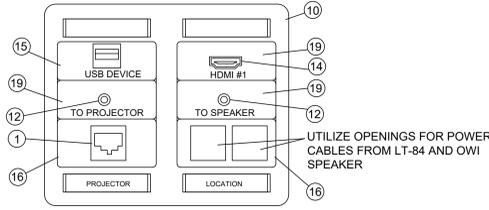
- Owner:
BETHEL PUBLIC SCHOOLS
 1 School Street, Bethel, CT 06801 203.794.8601
- Construction Manager:
RIZZO CORPORATION
 64 Triangle St. Danbury, CT 06810 203.731.3131
- Civil / Site / Landscape:
MILONE & MACBROOM
 99 Realty Drive, Cheshire, CT 06410 203.271.1773
- Structural:
DIVERSIFIED TECHNOLOGY CONSULTANTS
 2321 Whitney Avenue, Suite 301, Hamden, CT 06518 203.239.4200
- Mechanical, Electrical, Plumbing & Fire Protection:
DIVERSIFIED TECHNOLOGY CONSULTANTS
 2321 Whitney Avenue, Suite 301, Hamden, CT 06518 203.239.4200
- Food Service:
FOODSERVICE FACILITIES INTERNATIONAL
 137 Elm Place, New Canaan, CT 06840 203.972.1687
- Technology / Security / AV:
D'AGOSTINO & ASSOCIATES, LLC
 1266 E. Main Street, Stamford, CT 06902 203.539.6164
 Acoustical Consultant:
ACENTECH
 33 Moulton Street, Cambridge, MA 02138 617.499.8000

PRODUCT DESCRIPTION		
ITEM	DESCRIPTION	MANUFACTURER #
1		
2		
3		
4		
5		
6		
7		
8		
9		
10	DUAL GANG FACEPLATE	HUBBELL #IMF2xx
11	VGA WITH 3.5MM OVER 110	HUBBELL #IM15311015xx
12	3.5 mm STEREO JACK	HUBBELL #SF35FFxx
13	KEYSTONE FLAT 2-PORT 1 UNIT	HUBBELL #IM2K1xx
14	HDMI FEMALE CONNECTOR	HUBBELL #SFHC14
15	USB 110 EXTENDER	HUBBELL #IMU1101xx
16	KEYSTONE FLAT, 2-PORT, 1 UNIT HIGH	HUBBELL #IM1K1xx
17	3.5MM SOLDER	HUBBELL #SF35S.Jxx
18	SINGLE GANG 3-PORT	HUBBELL #IFP13xx
19	KEYSTONE FLAT 1-PORT 1 UNIT	HUBBELL #IM1K1xx
20	I-STATION 1 UNIT BLANK MODULE	HUBBELL #IMB1xx
21		
22	AV VOLUME CONTROL	OWI #MC4

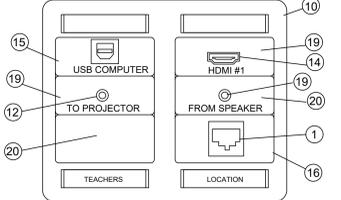
- NOTES:
 1. ALL LABELING SHALL BE DESCRIBED PER THE OWNER PRIOR TO INSTALLATION.
 2. COLOR OF ALL FACEPLATES AND TERMINATION CONNECTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.



SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's



SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's



SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's

SYMBOL:		SYMBOL:	B	SYMBOL:	A1	SYMBOL:	A
PRODUCT DESCRIPTION	NONE	CONTROL OUTLET	NONE	A / V OUTLET - DEVICE END	NONE	A / V OUTLET - TEACHERS AREA	NONE
	1		2		3		4
							5

PROJECT TITLE:
ROCKWELL ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS
 400 WHITTESEY DR, BETHEL, CT 06801
 STATE PROJECT No: 009-0058-RNV
 PROJECT No: 68961.00
 DRAWING TITLE:
TECHNOLOGY SYMBOL LEGEND & GENERAL NOTES
 SCALE:

IT-001
 CONSTRUCTION DOCUMENTS
 AUGUST 19, 2019

